

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliajan – 786602, Assam, India
Website: www.oil-india.com

Corrigendum No. 1 to IFB No. CPI9725P19

Engineering, Fabrication and Supply of Modular Instrumentation Packages respectively for OCS at Nadua and GGS at East Khagorijan in Dibrugarh district, Assam

1. This Corrigendum is issued to notify the following:
 - a) In view of queries received from bidders in matter corresponding to technical SOW, the final OIL's responses to the queries are generated. All the bidders are requested to refer to **Annexure- I** attached herewith.
 - b) Instrument Indices with IO List for GGS at East Khagorijan and OCS at Nadua are attached herewith as **Attachment – 1 & 2 respectively**.
 - c) Detailed instrumentation schedule/ BOQ for GGS at East Khagorijan and OCS at Nadua are attached herewith as **Attachment – 3 & 4 respectively**.
 - d) Revised Price Bid format/ SOR is attached herewith as **Attachment – 5**
 - e) Central Control Room Architecture for GGS at East Khagorijan and OCS at Nadua has been updated. Refer respective **Attachment – 6 & 7**.
 - f) Instrument data sheets for both sites are issued as per **Attachment – 8**.
 - g) Tank instrument indices for GGS at East Khagorijan and OCS at Nadua are attached herewith as **Attachment – 9 & 10 respectively**.
 - h) Updated TOR and technical specifications are attached herewith as **Attachment – 11 & 12**.
2. All other terms and conditions of the tender remain unaltered.
3. All the prospective bidders are requested to regularly visit OIL's website: www.oil-india.com and e-procurement portal <https://etender.srm.oilindia.in/irj/portal> for further announcements/latest information related to this tender.
4. Bidder to submit this Corrigendum No. 01 along with **Annexure – I and Attachments 1-12** duly signed & stamped in all pages as token of acceptance and shall upload this document in the un-priced folder of the e-bid.

Annexure – I**SUMMARY OF CONSULTANT/OIL's RESPONSE TO PRE-BID QUERIES**

SL No	RFQ Section	Ref. Clause	Existing Clause / Vendor Query	Modified Clause / OIL / Consultant Response
1.	ND & EK Terms of Reference	Clause 2.1	Dedicated Triple Modular Redundancy (TMR) PLC based Safety Instrumentation System (SIS) shall be provided	Dedicated TMR/QMR based PLC for ESD F&G Safety Instrumentation System (SIS) shall be provided. Refer to attachment 11 & 12.
2.	ND & EK Terms of Reference	Clause 2.2	Design, Engineering, manufacturing and supply of Marshalling Cabinet for DCS and SIL-2 rated ESD/F&G system in accordance with the Specifications and other documents as mentioned in TOR. Bidder shall consider 20% Installed spares and 20% spare space.	Design, Engineering, manufacturing and supply of Marshalling Cabinet for DCS and TMR/QMR based ESD/F&G system in accordance with the Specifications and other documents as mentioned in TOR. Bidder shall consider 20% Installed spares and 20% spare space. Refer to attachment 11 & 12.
3.	ND & EK Schedule of rates	Clause 2.1	Dedicated Triple Modular Redundancy (TMR) PLC based Safety Instrumentation System (SIS) shall be provided	Dedicated TMR/QMR based PLC for ESD F&G Safety Instrumentation System (SIS) shall be provided. Refer to attachment 3 & 4.
4.	ND & EK Schedule of rates	Clause 2.2	Design, Engineering, manufacturing and supply of Marshalling Cabinet for DCS and SIL-2 rated ESD/F&G system in accordance with the Specifications and other documents as mentioned in TOR. Bidder shall consider 20% Installed spares and 20% spare space.	Design, Engineering, manufacturing and supply of Marshalling Cabinet for DCS and TMR/QMR ESD F&G system in accordance with the Specifications and other documents as mentioned in TOR. Bidder shall consider 20% Installed spares and 20% spare space. Refer to attachment 3 & 4.
5.	ND & EK Control System Architecture	Note-19	Triple Modular Redundancy (TMR) based ESD/F&G system shall be provided	Deleted
6.	ND & EK Control System Architecture	Note-16	ESD/F&G PLC shall be SIL-2 rated system	TMR/QMR based PLC for ESD F&G System shall be provided. Refer attachment 6 & 7.

SL No	RFQ Section	Ref. Clause	Existing Clause / Vendor Query	Modified Clause / OIL / Consultant Response																																				
7.	EK Instrument Index	IO Summary	East Khagorijan Count of I/O TYPE <table><tr><th>Row Labels</th><th>AI</th><th>AO</th><th>DI</th><th>DO</th><th>Grand Total</th></tr><tr><td>DCS</td><td>180</td><td>79</td><td>625</td><td>80</td><td>964</td></tr><tr><td>ESD</td><td>6</td><td></td><td></td><td>136</td><td>142</td></tr><tr><td>PSD</td><td>188</td><td></td><td>10</td><td>164</td><td>362</td></tr><tr><td>USD</td><td>33</td><td></td><td></td><td>30</td><td>63</td></tr><tr><td>Grand Total</td><td>407</td><td>79</td><td>635</td><td>410</td><td>1531</td></tr></table> ESD and F&G are combined system PSD & USD are part of ESD System F&G53152 IO Counts are exclusive of spares Bidder shall consider 20% installed spares and 20% spare space AI, AO, DI shall be intrinsically safe	Row Labels	AI	AO	DI	DO	Grand Total	DCS	180	79	625	80	964	ESD	6			136	142	PSD	188		10	164	362	USD	33			30	63	Grand Total	407	79	635	410	1531	Refer to Attachment 1 Instrument Index with IO List - East Khagorijan for revised IO Summary
Row Labels	AI	AO	DI	DO	Grand Total																																			
DCS	180	79	625	80	964																																			
ESD	6			136	142																																			
PSD	188		10	164	362																																			
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Grand Total	407	79	635	410	1531																																			
8.	ND Instrument Index	IO Summary	Nadua Count of I/O TYPE <table><tr><th>Row Labels</th><th>AI</th><th>AO</th><th>DI</th><th>DO</th><th>Grand Total</th></tr><tr><td>DCS</td><td>201</td><td>65</td><td>668</td><td>85</td><td>1019</td></tr><tr><td>ESD</td><td>6</td><td></td><td></td><td>142</td><td>148</td></tr><tr><td>PSD</td><td>202</td><td></td><td>42</td><td>173</td><td>417</td></tr><tr><td>USD</td><td>30</td><td></td><td></td><td>29</td><td>59</td></tr><tr><td>Grand Total</td><td>439</td><td>65</td><td>710</td><td>429</td><td>1643</td></tr></table> ESD and F&G are combined system PSD & USD are part of ESD System F&G53152 IO Counts are exclusive of spares Bidder shall consider 20% installed spares and 20% spare space AI, AO, DI shall be intrinsically safe	Row Labels	AI	AO	DI	DO	Grand Total	DCS	201	65	668	85	1019	ESD	6			142	148	PSD	202		42	173	417	USD	30			29	59	Grand Total	439	65	710	429	1643	Refer to Attachment 2 Instrument Index with IO List – Nadua for revised IO Summary
Row Labels	AI	AO	DI	DO	Grand Total																																			
DCS	201	65	668	85	1019																																			
ESD	6			142	148																																			
PSD	202		42	173	417																																			
USD	30			29	59																																			
Grand Total	439	65	710	429	1643																																			
9.	EK & ND Schedule of Rates	11.0 Instrument Cables	Preliminary Instrument cable quantity	Refer to Attachment 3 & 4 detailed SOR for revised Instrument cable quantity																																				
10.	EK & ND Schedule of Rates	12.0 Cable Tray	Preliminary Intrument Cable Tray	Refer to Attachment 3 & 4 detailed SOR for revised Instrument cable tray quantity																																				
11.	EK & ND Schedule of rates	5.0 Instrument Tube and Fittings MTO	Preliminary Instrument Tube and Fittings MTO	Refer to Attachment 3 & 4 for revised Instrument Tube and Fittings MTO based on Interface and Tank instrument index revision.																																				
12.	SCC	ANNEXURE - II	Schedule of Rates/Prices (SOR/P) for Instrumentation Package	Refer Attachment 5 - SCHEDULE OF RATES / PRICES (SOR/P) FOR INSTRUMENTATION PACKAGE for revised Annexure – II & Attachment 3 & 4 for detailed SOR																																				
13.	Terms of	Newly added	-	Anchor bolts for modular package (Container)																																				

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	reference			and Steel foundation template for anchor bolt fixation shall be provided. Anchor bolts and Steel template shall be provided by MPC Contractor 60 days prior to delivery of package.
14.	EK & ND Schedule of rates	7.0 Instrument Tray and Accessories	7.1 Supply, installation, testing and commissioning of Instrument Tray and Accessories as per MTO. (Refer Item No 12.0)	Deleted as Tray and Tray fittings bill of material provided based on 30% model. Refer to attachment 3 & 4.
15.	EK & ND Schedule of rates	Clause 4.3	Supply, Installation, Testing & Commissioning of Motor Operated Valves	Motor operated valve segregated as 4.3 Motor Operated valve and 4.4 Motor Operated valve with local control panel (Pushbutton) which are installed in Bowser loading arm lines. Refer to attachment 3 & 4.
16.	EK & ND Schedule of rates	11.7, 11.8, 11.9	Flame Resistant	Fire Resistant. Refer to attachment 3 & 4.
17.	Technical Part-1, Page 184 of 249	6.3	Functional Specification of Pressure & Differential Pressure Transmitters - Tag wise Instrument data sheet is required. Process fluid, Calibration Ranges of individual tag, process fluid, Diaphragm Seals - Type of Seal, Capillary length, Combined Accuracy with Remote Seal (required tag wise)	Refer to attachment 8 for Instrument datasheets.
18.	Technical Part-1, Page 187 of 249	6.5	Functional Specification of Temperature Transmitters - Tag wise Instrument data sheet is required. Process fluid, Sensor input type & Calibration ranges for individual transmitter tags, Seath length dia of elements & I.D & insertion length of Thermowell (required tag wise)	D Refer to attachment 8 for Instrument datasheets.
19.	Technical Part-1, Page 194 of 249	6.8	Functional Specification of Radar Level Transmitters - Tag wise Instrument data sheet is required. Process fluid, tank height, Installation (Nozzle/chamber/still pipe), process connection, (required tag wise). In case of Nozzle -length & I.D is required. In case of Chamber C-C distance is required along with chamber length. In case of still pipe : I.D, length, perforation details etc. For interface measurement upper & lower product dielectric constant is required.	Refer to attachment 8 for Instrument datasheets.
20.	Technical Part-1, Page 195 of 249	6.10	Functional Specification of Differential Pressure Level Transmitters - Tag wise Instrument data sheet is required. Process fluid, Type of Seal - Remote seal capillary or Direct Mount seal, In case of Remote seal - capillary length, process connection, Calibration range (required tag wise)	Refer to attachment 8 for Instrument datasheets.
21.	Technical Part-1, Page 196 of 249	6.14	Functional Specification of Differential Pressure Flow Transmitters - Tag wise Instrument data sheet is required. Process fluid, flowrates, Pipe schedule, straight run availability for flow element (required tag wise)	Refer to attachment 8 for Instrument datasheets.

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22.	Technical Part-1, Page 15 & 30 of 249	4.8	Supply, Installation, Testing & Commissioning of DP type Flow Indicator - Tag wise Instrument data sheet is required. Please confirm if Indicator means transmitter otherwise technical specification is required	Refer to attachment 8 for Instrument datasheets.
23.	Technical Part-1, Page 15 & 30 of 249	4.14	Supply, Installation, Testing & Commissioning of Pressure Indicator - Tag wise Instrument data sheet is required. Please confirm if Indicator means transmitter otherwise technical specification is required	Refer to attachment 8 for Instrument datasheets.
24.	Technical Part-1, Page 15 & 31 of 249	4.15	Supply, Installation, Testing & Commissioning of Temperature Element with Indicator - Tag wise Instrument data sheet is required. Please confirm if Indicator means transmitter otherwise technical specification is required	Refer to attachment 8 for Instrument datasheets.
25.	Technical Part-1, Page 15 & 30 of 249	4.0	INSTRUMENTS - BOM - Clarification on quantity as per BOM and quantity as per Instrument Index.	Bidder shall refer to Interface and Tank Instrument Index (Refer to attachment 9 & 10) under Section III Clause 18 and 19 for Instrument supplied, Installed, Tested and Commissioned. Overall Instrument Index with IO List (Refer to attachment 1 & 2) provided under Section III Clause 9 and 10 is for IO Summary reference.
26.	Technical Part 1, Page 11 & 16	2.0/2, 4.20	Summary Scope of Supply - We understand that the Mimic Panel for ESD/FGS is a large screen LED display with one of the Operator stations connected. Please confirm	Confirmed
27.	Technical Part 1, Page 11	2.0/2	Summary Scope of Supply - We request Oil India to include TMR/QMR architecture as Emerson system meets QMR architecture. Kindly confirm the acceptance of the same.	Bidder shall provide TMR/QMR based PLC for ESD F&G System. Refer to attachment 3 & 4.
28.	Technical Part 1, Page 11	2.0/2.1	Summary Scope of Supply - Emerson standard panel design is with GI gland plate and not SS gland plate. We request that the same be accepted. Further, we propose RAL7035 shade as a standard instead of Shade 631. Kindly confirm acceptance	Bidder shall list the same in Deviation List provided
29.	Technical Part 1, Page 11	2.0/2.1	Summary Scope of Supply - We request Oil India to consider DCS and PLC system controller, I/O cards etc which shall be suitable & comply with ISA G3/GX level corrosive environment as per ANSI/ISA-S71.04 or equivalent as The control room ambience shall be normally corrosive as it is nearby the main process units.	Confirmed
30.	Technical Part 1, Page 11	2.0/2.1	Summary Scope of Supply - Please clarify the requirement for Panel Fabricator with type certificate for short circuit, Temperature rise and IP Protection	Tender document prevails
31.	Technical Part 1, Page 12	2.0/2.2	Summary Scope of Supply - We request Oil India to consider SIL3 rated ESD and F&G PLC in place of SIL 2 rated PLC	Confirmed

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32.	Technical Part 1, Page 12	2.0/2.7	Summary Scope of Supply - Pl clarify the requirement of 10 time sync port for GPS. The standard requirement is form one/two ports	Bidder shall refer to System Architecture provided in Tender documents. There are 10 sub-systems connected to Master DCS.
33.	Technical Part 1, Page 12	2.0/2.9	Summary Scope of Supply - We request Oil India to accept Hart Management system in DCS engineering station.	Bidder shall refer to System Architecture provided in Tender documents. Laptop requirement specified for HART management.
34.	, Page		We request Oil india to include all type of modules of the offered DCS system which shall be HART compatible since Hart Management system in DCS is required.	Confirmed
35.	Technical Part 1, Page 14	2.0/2.34	Summary Scope of Supply - Pl clarify the scope of third party inspection	Third party inspection is in Consultant Scope
36.	Technical Part 1, Page 14	3.0	Summary Scope of Supply - Pl provide details of MCT (dimension etc).	Bidder shall refer to Tender documents for Interface Cable Schedule and identify MCT requirement.
37.	Technical Part 1, Page 15	4.2	Summary Scope of Supply - Pl provide quantity of third party panels to be installed by bidder	Bidder shall refer to Tender documents
38.	Technical Part 1, Page 60	6.7	The control system components are certified for RH - 95% non-condensing and for workstations, the RH is 20 - 80 % non-condensing. Pl confirm acceptance	Confirmed
39.	Technical Part 1, Page 63	7.0	Pl provide details on the connectivity requirement with SCADA at Duliajan	Bidder shall refer to Control System Architecture drawing Note-13 which is part of tender document
40.	Technical Part 1, Page 100	7.25	We understand that SIL study of plant is not in vendors scope	Bidder understanding is right
41.	Technical Part 1, Page 104	7.31	Is ACDB/DCDB in our scope	Yes. DB is in bidder's scope
42.	Technical Part 1, Page 11 & 104	2.2 & 7.31	Summary Scope of Supply - Pl clarify on panel spare space requirement (Is it 20 % or 10%)	Tender document prevails
43.	Technical Part 1, Page	2.0/2, 4.20	Summary Scope of Supply - We request Oil India to provide system architechture for DCS and ESD & F&G System.	Tender document prevails
44.	Technical Part 1, Page	2.0/2	Summary Scope of Supply - Since there are lot of confusions in the specification of the complete package so we request you to please arrange one Pre-Bid meeting prior to bid submission	Bidder shall submit technical query
45.	Technical Part 3	General	Instrument List- ShutDown Valve-Valve Type (Butterfly/ball valve)	Tender document prevails
46.	Technical Part 3	General	Instrument List- ShutDown Valve-Material of Construction of Body, Disc/Ball, Shaft, Seat	Tender document prevails

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47.	Technical Part 3	General	Instrument List- ShutDown Valve- Media	Tender document prevails
48.	Technical Part 3	General	Instrument List- ShutDown Valve- IBR requirement	Not applicable
49.	Technical Part 3	General	Instrument List- ShutDown Valve- Actuator type(Single/double acting)	Tender document prevails
50.	Technical Part 3	General	Instrument List- ShutDown Valve- Max Shut off pressure	Bidder shall refer to Data Sheet provided
51.	Technical Part 3	General	Requirement of additional accessories like Quick Exhaust Valve, Volume Tank, Air lock Relay	Tender document prevails
52.	Technical Part 3	General	Pressure Class of valve	Tender document prevails
53.	Technical Part 3	General	End Connection	Tender document prevails
54.	Technical Part 3	General	Fire Safe Requirement	Tender document prevails
55.	Technical Part 3	General	SIL certificate requirement	Tender document prevails
56.	Technical Part 3	General	Radiography Test, Magnetic Particle Test if required	Tender document prevails
57.	Technical Part 3	General	Leakage Class requirement	Tender document prevails
58.	General	General	Eight Months (8) from the Date of Letter of Award (LOA). - The completion period is mentioned as 8 Months from LOA. Looking at the volume of work & detailing required, bidder estimates that completion period shall be 11 Months from Purchaser Order. Moreover, Bidder requests OIL to confirm Purchaser Order within 15 days from issuing LOA as PO is must for any procurement action from the bidder. Purchaser to confirm the understanding.	Tender condition prevails
59.	General	General	Quantity Variation - Query#1: Bidder understands that the price bid is in conjunction with the SOR provided. There is fixed quantities mentioned in SOR. Bidder understands that add/delete will not be more than 5% of the quantity given in the SOR. Purchaser to confirm the understanding. Query#2: We also understand that being SOR based contract, any addition with respect to tender SOR will be paid as per unit rate. In case the bidder is L1, the detailed price break-up will be submitted to purchaser for approval (as given in Payment terms clause). This break-up will be base document for any addition during detailed engineering. Purchaser to confirm the understanding.	Bidder understanding is correct.

SL No	RFQ Section	Ref. Clause	Existing Clause / Vendor Query	Modified Clause / OIL / Consultant Response
60.	General	General	Selection of Bidder - Bidder understands that the evaluation is combined for both Nadua & Khagorijan i.e both locations will be awarded to only one bidder.	Bidders understanding is correct
61.	General	General	Price Variation due to Commodity Variation - If the Delivery Period agreed is more than contractual period from the effective date of the Contract, necessary adjustments in the Price for the changes in cost of labor and material components shall be made as per the Indian Electrical and Electronics Manufacturers' Association (IEEMA) Index/ RBI Wholesale Price Index. Purchaser to confirm this provision.	Tender condition prevails
62.	General	54	Time is the essence of this Contract. In the event, the MPC Contractor fails to complete the works within the stipulated completion period mentioned elsewhere in the bidding document, the Contractor shall be liable to pay liquidated damages @ 0.5% of the total Contract Value, per week of delay or part thereof of delay subject to maximum of 7.5% of the Total Contract Value. Liquidated Damages will be reckoned after expiry of the completion period. - Bidder requests OIL to review the clause, bidder request following amendment: (a) The maximum cap of LD is requested as 5% instead of 7.5%. Many of the contemporary PSU Oil companies are accepting this clause as max 5%. (b) Bidder also requests Purchaser to consider LD on the 'Undelivered Portion' and not on the total contract value due to the nature of contract.	Tender condition prevails
63.	General	General	(a) 10 % of Package Material Price (SOR/P Item No. 1) against approval of documents and drawings identified in Contract at least in Code-2 and against submission of Advance Bank Guarantee (ABG) of equivalent amount (b) 60% of Package Material Price (SOR/P Item No. 1) against submission of despatch documents (along with copy of LR/GR and IRN) together with full taxes, duties and transportation charges. (c) 15% of Package Material Price (SOR/P Item No. 1) on successful Erection/Installation and completion of Commissioning. (d) 15% of Package Material Price (SOR/P Item No. 1) on successful completion of PGTR of the project works (by others) and on receipt of Final/As built Drawings/Documents/Data/Manual in requisite number of copies/sets/CDs as per VDR specified in bidding documents (to be identified during kick off meeting, if not specified in bidding documents) -	Tender condition prevails

SL No	RFQ Section	Ref. Clause	Existing Clause / Vendor Query	Modified Clause / OIL / Consultant Response
			Query#1 : Bidder requests Purchaser to review the milestone payment provided. Bidder requests to keep the percentage as (a) 10% (b) 75% (c) 10% (d) 5%. Query#2: Bidder understands that first milestone payment is against deliverable (document submission) and hence Advance BG shall not be applicable. If ABG is must, Purchaser to release this payment along with LOI, on submission of ABG by bidder. Purchaser to confirm the understanding. Query#3: Bidder understands that payment under (b) & (c) are on pro-rata basis. Purchaser to confirm the understanding.	
64.	General	General	(viii) In case site is not available up to Six (6) months (wherever site work is applicable),after receipt of all supplies at site, the payment against the same shall be released on submission of additional Bank Guarantee of equivalent amount valid for One year (1) or such extended period as may be required. - Bidder has noted the captioned provision for retention payment. bidder is requesting Purchaser to put cap of 60 days for (c) & 90 days for (d) from supply being time critical project of only 8 months.	Tender condition prevails
65.	General	General	(i) 1ST Milestone payment shall be released only after receipt of Performance Bank Guarantee (PBG) - As per the payment terms, Purchaser has asked for ABG in case of pure advance along with LOA. Since Bidder is already providing security of 10%, the PBG shall be submitted along with first consignment of supply. Purchaser to confirm.	Tender condition prevails
66.	General	General	The SOR is given under NIT document. Bidder has to fill only 2 columns. Also, some clauses in the tender state that Bidder needs to quote with taxes and duties whereas some clauses state Bidder shall quote prices exclusive of Taxes and Duties. - Bidder understands that Bidder needs to quote prices inclusive of packing and forwarding, transportation & marine cum transit insurance but exclusive of GST. Bidder requests customer to confirm the same.	Confirmed
67.	General	General	Bidder understands Transit insurance is Bidders' scope. Bidder requests OIL to confirm the same.	Bidders understanding is correct
68.	General	9.2	Tender clause states "The bank Guarantee issued by the Bank must be routed through SFMS Platform as per following details..." - Bidder understands that Bank Guarantee in form of Bid Security is acceptable apart from SFMS. Bidder requests OIL to confirm the same.	Confirmed
69.	General	8.3	Price quoted by the bidder, shall remain firm & fixed until completion of the contract and will not be subject to any variation, except as otherwise specifically provided in the Bidding Documents - Bidder requests OIL to	Noted

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			include Price variation Clause on basis constant fluctuation in prices of Raw Materials and unstable variation in foreign currencies . Bidder requests OIL to note that these clauses are widely accepted by the industry and purchasing organizations.	
70.	General	General	Add/ Delete rate - Add/ Delete rates for items shall be mutually discussed and signed off during kickoff.	Confirmed
71.	General	3	The Scope of supply involves package engineering, procurement, fabrication, assembly, wiring, factory testing, supply and installation of electrical systems required for OCS Nadua and GGS East Khagorijan including transportation and unloading of complete package/skid to respective site - Bidder understands all containers shall be supplied in prefabricated manner. Bidder requests OIL to confirm	Confirmed
72.	General	11	The fabrication of panels / containers shall be carried out at MPC Contractor's fabrication yard. - We are OEMs of Switchgear systems and the fabrication shall be at our Authorized partners' works.	Information
73.	General	10	ALTERATIONS IN DESIGNS, PLANS, DRAWINGS, SPECIFICATIONS ORDERS AND INSTRUCTIONS:.... - Bidder requests OIL to define timeline to freeze the engineering quantity. OIL shall send formal confirmation within 2 months from Kick off Meeting for any change in BOM & the same shall be reckoned for work completion schedule. Any upward change in the quantity beyond the mentioned time/after approval of document shall be mutually discussed & suitable provision of time and cost for contractual completion shall be done. Also, variation cap on Quantites. Bidder requests OIL to confirm the understanding.	Tender condition prevails
74.	General	12	Consultant will arrange Third Party Inspection wherever necessary. - Bidder understands that Third Party Inspections as required shall be arranged by Consultant and all charges for the same shall be borne by the consultant.	Confirmed
75.	General	16	COORDINATION WITH OTHER AGENCIES: - Bidder requests OIL/ Consultant to extend their help for any liasioning to be done with third party agencies.	Support will be provided
76.	General	21	FAILURE BY THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF THE CONTRACT - In case performance of the vendor is not successful, the the corporation's intent of cancelling the order shall be notified with notice of atleast 30 days. Moreover, all the payments of the material supplied & material in 'Work in Progress' shall be paid by the corporation.	Tender conditions prevails
77.	General	General	1.2 The Bidder should have experience of successfully supplied, installed and commissioned at least one number switchboard comprising of PCC or PMCC or MCC panel assembled inside a containerised substation in the	Bidder to elaborate on the query.

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			last five (05) years reckoned from the bid closing date. - Bidder understands that team 'containerized substation' means substation of modular/compact design will be considered.	
78.	General	General	Site Layout - Bidder requests OIL to provide Site/ plant Layout in autocad Format	Will be provided on award of contract
79.	General	General	Bidder understands that AC & Ventilation for the Container needs to be provided under line item of prefabricated substation.	Confirmed
80.	General	General	Bidder requests OIL to provide Soil Resistivity report to enable the bidder to design Earthing System.	Will be provided on award of contract
81.	17039-EK-I-DW-8009	Note-19	Triple Modular Redundancy based ESD/F&G shall be provided - We shall provide Quad-Modular Redundancy based ESD/F&G system. Kindly confirm	Confirmed
82.	17039-EK-I-DW-8009	Note-17	ESD/F&G PLC Shall be SIL-2 Rated System - Kindly include SIL-3 Minimum requirement for ESD/F&G System	ESD F&G PLC shall be TMR/QMR based system
83.	17039-EK-I-DW-8009	Note-18	Air Quality Monitoring Shall be provided - Detailed specification on Analysers, Data Logger, etc. is needed.	Bidder to refer to details available in tender document
84.	17039-EK-I-DB-8001	Section 7.0	The individual PLCs shall be provided with redundancy at processor, power supply and communication level - We understand IO redundancy is not required for DCS, ESD and F&G systems. Kindly confirm	Confirmed
85.	Instrument Index	Notes Sheet	AI, AO, DI shall be intrinsically safe - We understand all AI, AO and DI signals related to DCS and ESD are to be considered as Intrinsic Safe type. While DO signals of DCS and ESD and all signals of F&G are to be considered as Non-Intrinsic type. Kindly confirm	Confirmed
86.	17039-EK-I-DB-8001	Section 6.5	Utilities Available - We understand that UPS is supplied by the client, only we need to provide PDB within the Control room. Kindly confirm	Confirmed
87.	17039-EK-I-DB-8001	Section 6.8	All relays and switches shall be hermetically sealed, and rated 1A at 24VDC. - Hermetic sealing for Relays (only applicable to DCS DO's). For ESD/F&G where SIL-3 relay we provide, Hermetic sealing is not applicable	Confirmed
88.	17039-EK-I-DB-	Section 7.0	Communication tower with concrete platform shall be provided for installing VSAT antenna for data communication in nearby free ground	Bidder shall note that communication tower shall be bidder's scope and concrete platform

SL No	RFQ Section	Ref. Clause	Existing Clause / Vendor Query	Modified Clause / OIL / Consultant Response
	8001		area of radius of approx. 12m - Need details of this requirement	by others. Details related to communication tower design will be obtained from OIL and provided to bidder during detail engineering stage
89.	17039-EK-I-DB-8001	Section 7.25	SIL Study of Plant - We believe HAZOP and SIL study are part of Client's scope of work. Kindly confirm	Confirmed
90.	SOR document	Item 12.0	Cable Trays - We understand the quantity of Cable trays provided in the SoR list is final and based on which we need to estimate the pricing. Kindly confirm	Revised Cable Tray quantities provided. Refer attachment
91.	SOR document	Item 11.0	Instrument Cables - We understand the quantity of Cables provided in the SoR list is final and based on which we need to estimate the pricing. Kindly confirm	Revised Cable quantities provided. Refer attachment
92.	SOR document	Item 2.19	Supply, installation, testing and commissioning of Tank instruments as per typical instrument breakup - We understand tank instruments are not part of MPC-10 package. Kindly confirm	Bidder understanding is incorrect. MPC-10 bidder shall supply, installation, testing and commissioning of Interface Line and Tank Instruments to be considered
93.	SOR document	Item 2.25	Flow computation in DCS for fiscal measurement instruments - We understand flow calculation as per AGA-3 and 8 to be developed in DCS. However the fiscal measuring instruments are not part of our supply. Kindly confirm	Bidder shall note Coriolis Flow Meter is part of Bidder scope
94.	17039-EK-I-DB-8001	Section 7	Instrumentation Philosophy - Process Data is not provided for control valve sizing like nature of flowing media, flow range, sp. Gravity,etc Kindly provide the same	Bidder shall refer to attached preliminary tag wise data sheets provided
95.	General		Kindly provide the Clean Agent system specification	Bidder shall provide clean agent Novec 1230
96.	General		Kindly provide Data Sheets for all the Transmitters, Gauges and Valves. This is required to size the instruments properly without any assumptions	Bidder shall refer to attached preliminary tag wise data sheets provided

SL No	RFQ Section	Ref. Clause	Existing Clause / Vendor Query	Modified Clause / OIL / Consultant Response
97.	General		Kindly provide Junction Box details: 1. No. of terminals and its size 2. No. of cable entry and its size and placement	Bidder shall work out during detail engineering. For cost estimation purpose Bidder shall consider 24P JB size
98.	General		Kindly provide Fire and Gas Detectors details: 1. Response of IR point type detectors 2. Output signal of IR point type gas detectors 3. Requirement for Local display in IR point type detector 4. Range of open path gas detector 5. Output signal of Flame Detector 6. Accuracy, repeatability, accessories, etc are required.	Bidder to note 1. Response time of the detector shall be max.5sec. 2. Analogue (4-20 mA) and shall have inbuilt HART protocol, built-in fault monitoring. 3. Required 4. Beam range shall be 3 MTR. TO 150 MTR 5. Analogue (4-20 mA) and shall have inbuilt HART protocol, built-in fault monitoring. 6. Accuracy $\pm 2\%$ LEL, repeatability $\pm 2\%$ FS, accessories required for 2" pole, mounting and necessary support as brackets, nuts, bolts.
99.	General		We understand all CCTV camera shall be mounted in outdoor locations only. CCTV camera desired coverage is required or lens specification is required	Bidder shall consider Industrial purpose PTZ Cameras for outdoor use.
100	SOR document	Section-III, item no. 10.0	Telecom Equipment - Kindly provide specification for Walkie talkies: 1. Coverage requirement / antenna strength 2. No. of Base station with specification	1. Walkie-talkies coverage shall be 400m 2. No. of base station required shall be assessed by Bidder
101	SOR document	Section-III, item no. 2.17	Radio Transmission, antenna - Kindly provide details regarding no. of antennas to be considered and the height details. Also provide Line of sight details (if applicable)	Radio transmission antenna is not in bidder scope, only communication tower is in bidder scope.
102	17039-EK-I-DB-8001	Section 7	Instruments in Pipeline - Maximum Pressure Drop allowed for Flow meters and the process parameters like maximum/minimum flow rate for the installation lines, nature of the media are required.	Bidder shall refer to attached preliminary tag wise data sheets provided

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INSTRUMENT INDEX

|  |     |      |             |    |     |      |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                         |   |              |
|--|-----|------|-------------|----|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------|
|  |     |      |             |    |     |      | CLIENT: <div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्यम)<br/><b>Oil India Limited</b><br/><small>(A Government of India Enterprise)</small></div></div> | PROJECT                                                                                                                                                                                                                                 |   |              |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                                    | THIS DOCUMENT AND ALL DESIGN DETAILS AND DATA SHOWN HEREON, IS THE SOLE PROPERTY OF OIL INDIA LIMITED AND SHALL NOT BE REPRODUCED IN ANY MANNER, OR USED FOR ANY PURPOSE WHATSOEVER, EXCEPT BY WRITTEN PERMISSION OF OIL INDIA LIMITED. |   |              |
|  |     |      |             |    |     |      | CONSULTANT: <div><div>KAVIN™</div></div>                                                                                                                      | TITLE                                                                                                                                                                                                                                   |   |              |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                                    | INSTRUMENT INDEX                                                                                                                                                                                                                        |   |              |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                                    | CLIENT DOC.NO                                                                                                                                                                                                                           | - | SHEET NO : 1 |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                                    | DOCUMENT NO                                                                                                                                                                                                                             |   | SUB :        |
|  | REV | DATE | DESCRIPTION | BY | CHK | APPR |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                         |   |              |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                         |   |              |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                         |   |              |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                         |   |              |

## INDEX SHEET

[illegible]



| <div><div></div><div></div></div> |             |                                          |                       | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |        |          |                            |                     |                            |                        |         |                 |                                |              |           | <div>DOC NO. : </div> <div>REV NO. : </div> <div>DATE : </div> |      |        |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------------------------|---------------------|----------------------------|------------------------|---------|-----------------|--------------------------------|--------------|-----------|----------------------------------------------------------------|------|--------|--|
| INSTRUMENT INDEX                                                                                                                                                                                  |             |                                          |                       |                                                                                                                                                            |        |          |                            |                     |                            |                        |         |                 |                                |              |           |                                                                |      |        |  |
| S.No                                                                                                                                                                                              | TAG NO.     | INSTRUMENT DESCRIPTION                   | P&ID No               | LINE / VESSEL NO                                                                                                                                           | SYSTEM | I/O TYPE | DESIGN PRESSURE in kg/cm2g | DESIGN TEMP. in ° C | OPERATING PRESSURE kg/cm2g | OPERATING TEMP. in ° C | MPC     | SIZE / RATING   | BODY MATERIAL                  | MANUFACTURER | MODEL NO. | DATA SHEET NO.                                                 | REV. | REMARK |  |
| 1                                                                                                                                                                                                 | 42-FI-3803  | FLOW INDICATOR                           | 17039-EK-P-DW-0202-05 | 1/2"-CV-42-8601-GT20                                                                                                                                       | N/A    | N/A      | 110                        | 80                  | 95                         | AMBIENT                | MPC - 2 | 1/2"NPT         | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 2                                                                                                                                                                                                 | 13-SDV-0001 | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 4"/2500# RTJ    | BODY: CARBON STEEL TRIM: SS316 | *            | *         | -                                                              | A    | -      |  |
| 3                                                                                                                                                                                                 | 13-SXV-0001 | SOLENOID VALVE                           | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | PSD    | DO       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 4                                                                                                                                                                                                 | 13-ZSL-0001 | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 5                                                                                                                                                                                                 | 13-ZSH-0001 | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 6                                                                                                                                                                                                 | 13-PI-0002  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 7                                                                                                                                                                                                 | 13-PT-0003  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                                                                         | PSD    | AI       | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 8                                                                                                                                                                                                 | 13-TW-0004  | THERMOWELL                               | 17039-EK-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 9                                                                                                                                                                                                 | 13-TI-0004  | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPTM        | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 10                                                                                                                                                                                                | 13-TW-0011  | THERMOWELL                               | 17039-EK-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1 1/2"/2500#RTJ | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 11                                                                                                                                                                                                | 13-TT-00011 | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                                                                         | PSD    | AI       | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPTM        | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 12                                                                                                                                                                                                | 42-FI-8004  | FLOW INDICATOR                           | 17039-EK-P-DW-0202-05 | 1/2"-CV-42-7866-GT20                                                                                                                                       | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPT         | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 13                                                                                                                                                                                                | 13-SDV-0007 | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 4"/2500# RTJ    | BODY: CARBON STEEL TRIM: SS316 | *            | *         | -                                                              | A    | -      |  |
| 14                                                                                                                                                                                                | 13-SXV-0007 | SOLENOID VALVE                           | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | PSD    | DO       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 15                                                                                                                                                                                                | 13-ZSL-0007 | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 16                                                                                                                                                                                                | 13-ZSH-0007 | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 17                                                                                                                                                                                                | 13-PI-0008  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 18                                                                                                                                                                                                | 13-PT-0009  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                                                                         | PSD    | AI       | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 19                                                                                                                                                                                                | 13-TW-0010  | THERMOWELL                               | 17039-EK-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 20                                                                                                                                                                                                | 13-TI-0010  | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPTM        | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 21                                                                                                                                                                                                | 13-TW-0012  | THERMOWELL                               | 17039-EK-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1 1/2"/2500#RTJ | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 22                                                                                                                                                                                                | 13-TT-0012  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                                                                         | PSD    | AI       | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPTM        | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 23                                                                                                                                                                                                | 42-FI-8005  | FLOW INDICATOR                           | 17039-EK-P-DW-0202-05 | 1/2"-CV-42-7687-GT20                                                                                                                                       | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPT         | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 24                                                                                                                                                                                                | 13-SDV-0013 | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 4"/2500# RTJ    | BODY: CARBON STEEL TRIM: SS316 | *            | *         | -                                                              | A    | -      |  |
| 25                                                                                                                                                                                                | 13-SXV-0013 | SOLENOID VALVE                           | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | PSD    | DO       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 26                                                                                                                                                                                                | 13-ZSL-0013 | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 27                                                                                                                                                                                                | 13-ZSH-0013 | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-05 | N/A                                                                                                                                                        | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 28                                                                                                                                                                                                | 13-PI-0014  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 29                                                                                                                                                                                                | 13-PT-0015  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                                                                         | PSD    | AI       | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 30                                                                                                                                                                                                | 13-TW-0016  | THERMOWELL                               | 17039-EK-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1 1/2"/2500#RTJ | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 31                                                                                                                                                                                                | 13-TI-0016  | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPTM        | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 32                                                                                                                                                                                                | 13-TW-0013  | THERMOWELL                               | 17039-EK-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1 1/2"/2500#RTJ | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 33                                                                                                                                                                                                | 13-TT-0013  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                                                                         | PSD    | AI       | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPTM        | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 34                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -1                                                                                                                                                 | PSD    | DO       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 35                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -1                                                                                                                                                 | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 36                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -1                                                                                                                                                 | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 37                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -2                                                                                                                                                 | PSD    | DO       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 38                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -2                                                                                                                                                 | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 39                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -2                                                                                                                                                 | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 40                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -3                                                                                                                                                 | PSD    | DO       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 41                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -3                                                                                                                                                 | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 42                                                                                                                                                                                                | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-05 | HP WELL -3                                                                                                                                                 | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 43                                                                                                                                                                                                | 42-FI-8019  | FLOW INDICATOR                           | 17039-EK-P-DW-0202-06 | 1/2"-CV-42-7728-GT20                                                                                                                                       | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1/2"NPT         | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 44                                                                                                                                                                                                | 13-SDV-0018 | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-06 | 4"-PT-13-0014-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 4"/2500# RTJ    | BODY: CARBON STEEL TRIM: SS316 | *            | *         | -                                                              | A    | -      |  |
| 45                                                                                                                                                                                                | 13-SXV-0018 | SOLENOID VALVE                           | 17039-EK-P-DW-0202-06 | N/A                                                                                                                                                        | PSD    | DO       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 46                                                                                                                                                                                                | 13-ZSL-0018 | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-06 | N/A                                                                                                                                                        | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 47                                                                                                                                                                                                | 13-ZSH-0018 | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-06 | N/A                                                                                                                                                        | DCS    | DI       | N/A                        | N/A                 | N/A                        | N/A                    | MPC - 2 | N/A             | N/A                            | *            | *         | -                                                              | A    | -      |  |
| 48                                                                                                                                                                                                | 13-PI-0019  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-06 | 4"-PT-13-0014-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 49                                                                                                                                                                                                | 13-PT-0020  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-06 | 4"-PT-13-0014-FC01                                                                                                                                         | PSD    | AI       | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 2"/2500#RTJ     | SS316                          | *            | *         | -                                                              | A    | -      |  |
| 50                                                                                                                                                                                                | 13-TW-0021  | THERMOWELL                               | 17039-EK-P-DW-0202-06 | 4"-PT-13-0014-FC01                                                                                                                                         | N/A    | N/A      | 350                        | 100                 | 10-90                      | 27-50                  | MPC - 2 | 1 1/2"/2500#    |                                |              |           |                                                                |      |        |  |

|                                                                                                                                                                                                                                                                                                                                                       |             |                                          |                            |                      |     |     |     |     |       |       |         |                 |                                   |   |   |           |   |           |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|----------------------------|----------------------|-----|-----|-----|-----|-------|-------|---------|-----------------|-----------------------------------|---|---|-----------|---|-----------|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>(an undertaking of India Corporation)</small></div></div></div> |             |                                          | CLIENT : OIL INDIA LIMITED |                      |     |     |     |     |       |       |         |                 |                                   |   |   | DOC NO. : |   |           |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                     |             |                                          |                            |                      |     |     |     |     |       |       |         |                 |                                   |   |   |           |   | REV NO. : |  |
|                                                                                                                                                                                                                                                                                                                                                       |             |                                          |                            |                      |     |     |     |     |       |       |         |                 |                                   |   |   |           |   | DATE :    |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                      |             |                                          |                            |                      |     |     |     |     |       |       |         |                 |                                   |   |   |           |   |           |  |
| 60                                                                                                                                                                                                                                                                                                                                                    | 13-PT-0026  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-06      | 4"-PT-13-0015-FC01   | PSD | AI  | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 61                                                                                                                                                                                                                                                                                                                                                    | 13-TW-0027  | THERMOWELL                               | 17039-EK-P-DW-0202-06      | 4"-PT-13-0015-FC01   | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ | SS316                             | * | * | -         | A | -         |  |
| 62                                                                                                                                                                                                                                                                                                                                                    | 13-TI-0027  | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-06      | 4"-PT-13-0015-FC01   | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1/2"NPTM        | SS316                             | * | * | -         | A | -         |  |
| 63                                                                                                                                                                                                                                                                                                                                                    | 13-TW-0015  | THERMOWELL                               | 17039-EK-P-DW-0202-06      | 4"-PT-13-0015-FC01   | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ | SS316                             | * | * | -         | A | -         |  |
| 64                                                                                                                                                                                                                                                                                                                                                    | 13-TT-0015  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-06      | 4"-PT-13-0015-FC01   | PSD | AI  | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1/2"NPTM        | SS316                             | * | * | -         | A | -         |  |
| 65                                                                                                                                                                                                                                                                                                                                                    | 42-FI-8021  | FLOW INDICATOR                           | 17039-EK-P-DW-0202-06      | 1/2"-CV-42-7730-GT20 | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1/2"NPT         | SS316                             | * | * | -         | A | -         |  |
| 66                                                                                                                                                                                                                                                                                                                                                    | 13-SDV-0030 | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-06      | 4"-PT-13-0016-FC01   | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 4"/2500# RTJ    | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 67                                                                                                                                                                                                                                                                                                                                                    | 13-SXV-0030 | SOLENOID VALVE                           | 17039-EK-P-DW-0202-06      | N/A                  | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | SS316                             | * | * | -         | A | -         |  |
| 68                                                                                                                                                                                                                                                                                                                                                    | 13-ZSL-0030 | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-06      | N/A                  | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 69                                                                                                                                                                                                                                                                                                                                                    | 13-ZSH-0030 | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-06      | N/A                  | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 70                                                                                                                                                                                                                                                                                                                                                    | 13-PI-0031  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-06      | 4"-PT-13-0016-FC01   | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 71                                                                                                                                                                                                                                                                                                                                                    | 13-PT-0032  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-06      | 4"-PT-13-0016-FC01   | PSD | AI  | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 72                                                                                                                                                                                                                                                                                                                                                    | 13-TW-0033  | THERMOWELL                               | 17039-EK-P-DW-0202-06      | 4"-PT-13-0016-FC01   | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ | SS316                             | * | * | -         | A | -         |  |
| 73                                                                                                                                                                                                                                                                                                                                                    | 13-TI-0033  | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-06      | 4"-PT-13-0016-FC01   | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1/2"NPTM        | SS316                             | * | * | -         | A | -         |  |
| 74                                                                                                                                                                                                                                                                                                                                                    | 13-TW-0016  | THERMOWELL                               | 17039-EK-P-DW-0202-06      | 4"-PT-13-0014-FC01   | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ | SS316                             | * | * | -         | A | -         |  |
| 75                                                                                                                                                                                                                                                                                                                                                    | 13-TT-0016  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-06      | 4"-PT-13-0014-FC01   | PSD | AI  | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1/2"NPTM        | SS316                             | * | * | -         | A | -         |  |
| 76                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -4           | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 77                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -4           | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 78                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -4           | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 79                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -5           | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 80                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -5           | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 81                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -5           | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 82                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -6           | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 83                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -6           | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 84                                                                                                                                                                                                                                                                                                                                                    | -           | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-06      | HP WELL -6           | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 85                                                                                                                                                                                                                                                                                                                                                    | 42-FI-8032  | FLOW INDICATOR                           | 17039-EK-P-DW-0202-07      | 1/2"-CV-42-7784-GT20 | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1/2"NPT         | SS316                             | * | * | -         | A | -         |  |
| 86                                                                                                                                                                                                                                                                                                                                                    | 13-SDV-0294 | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-07      | 6"-PT-13-0108-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 6"/2500#RTJ     | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 87                                                                                                                                                                                                                                                                                                                                                    | 13-SXV-0294 | SOLENOID VALVE                           | 17039-EK-P-DW-0202-07      | N/A                  | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | SS316                             | * | * | -         | A | -         |  |
| 88                                                                                                                                                                                                                                                                                                                                                    | 13-ZSL-0294 | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-07      | N/A                  | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 89                                                                                                                                                                                                                                                                                                                                                    | 13-ZSH-0294 | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-07      | N/A                  | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 90                                                                                                                                                                                                                                                                                                                                                    | 13-PI-0126  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-07      | 6"-PT-13-0108-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 91                                                                                                                                                                                                                                                                                                                                                    | 13-PT-0127  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-07      | 6"-PT-13-0108-FC01   | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 92                                                                                                                                                                                                                                                                                                                                                    | 13-TW-0128  | THERMOWELL                               | 17039-EK-P-DW-0202-07      | 6"-PT-13-0108-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 93                                                                                                                                                                                                                                                                                                                                                    | 13-TI-0128  | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-07      | 6"-PT-13-0108-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM        | SS316                             | * | * | -         | A | -         |  |
| 94                                                                                                                                                                                                                                                                                                                                                    | 13-TW-0017  | THERMOWELL                               | 17039-EK-P-DW-0202-07      | 6"-PT-13-0108-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ | SS316                             | * | * | -         | A | -         |  |
| 95                                                                                                                                                                                                                                                                                                                                                    | 13-TT-0017  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-07      | 6"-PT-13-0108-FC01   | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM        | SS316                             | * | * | -         | A | -         |  |
| 96                                                                                                                                                                                                                                                                                                                                                    | 42-FI-8033  | FLOW INDICATOR                           | 17039-EK-P-DW-0202-07      | 1/2"-CV-42-7785-GT20 | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPT         | SS316                             | * | * | -         | A | -         |  |
| 97                                                                                                                                                                                                                                                                                                                                                    | 13-SDV-0300 | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-07      | 6"-PT-13-0119-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 6"/2500#RTJ     | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 98                                                                                                                                                                                                                                                                                                                                                    | 13-SXV-0300 | SOLENOID VALVE                           | 17039-EK-P-DW-0202-07      | N/A                  | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | SS316                             | * | * | -         | A | -         |  |
| 99                                                                                                                                                                                                                                                                                                                                                    | 13-ZSL-0300 | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-07      | N/A                  | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 100                                                                                                                                                                                                                                                                                                                                                   | 13-ZSH-0300 | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-07      | N/A                  | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A             | N/A                               | * | * | -         | A | -         |  |
| 101                                                                                                                                                                                                                                                                                                                                                   | 13-PI-0131  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-07      | 6"-PT-13-0119-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 102                                                                                                                                                                                                                                                                                                                                                   | 13-PT-0132  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-07      | 6"-PT-13-0119-FC01   | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 103                                                                                                                                                                                                                                                                                                                                                   | 13-TW-0133  | THERMOWELL                               | 17039-EK-P-DW-0202-07      | 6"-PT-13-0119-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ     | SS316                             | * | * | -         | A | -         |  |
| 104                                                                                                                                                                                                                                                                                                                                                   | 13-TI-0133  | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-07      | 6"-PT-13-0119-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM        | SS316                             | * | * | -         | A | -         |  |
| 105                                                                                                                                                                                                                                                                                                                                                   | 13-TW-0018  | THERMOWELL                               | 17039-EK-P-DW-0202-07      | 6"-PT-13-0119-FC01   | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ | SS316                             | * | * | -         | A | -         |  |
| 106                                                                                                                                                                                                                                                                                                                                                   | 13-TT-0018  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-07      | 6"-PT-13-0119-FC01   | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM        | SS316                             | * | * | -         | A | -         |  |
| 107                                                                                                                                                                                                                                                                                                                                                   | 42-FI-8034  | FLOW INDICATOR                           | 17039-EK-P-DW-0202-07      | 1/2"-CV-42-7786-GT20 | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPT         | SS316                             | * | * | -         | A | -         |  |
| 108                                                                                                                                                                                                                                                                                                                                                   | 13-SDV-0314 | SHUTDOWN VALVE                           | 17039-EK-P-D               |                      |     |     |     |     |       |       |         |                 |                                   |   |   |           |   |           |  |

|                                                                                                                                                                                                                                                                                                                                                    |              |                                          |                       |                            |     |     |     |     |       |       |         |                             |                                   |   |   |           |   |           |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------|-----------------------|----------------------------|-----|-----|-----|-----|-------|-------|---------|-----------------------------|-----------------------------------|---|---|-----------|---|-----------|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an enterprise of public importance</small></div></div></div> |              |                                          |                       | CLIENT : OIL INDIA LIMITED |     |     |     |     |       |       |         |                             |                                   |   |   | DOC NO. : |   |           |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                  |              |                                          |                       |                            |     |     |     |     |       |       |         |                             |                                   |   |   |           |   | REV NO. : |  |
|                                                                                                                                                                                                                                                                                                                                                    |              |                                          |                       |                            |     |     |     |     |       |       |         |                             |                                   |   |   |           |   | DATE :    |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                   |              |                                          |                       |                            |     |     |     |     |       |       |         |                             |                                   |   |   |           |   |           |  |
| 121                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-07 | LP WELL -2                 | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 122                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-07 | LP WELL -2                 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 123                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-07 | LP WELL -2                 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 124                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-07 | HP WELL -3                 | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 125                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-07 | HP WELL -3                 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 126                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-07 | HP WELL -3                 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 127                                                                                                                                                                                                                                                                                                                                                | 42-FI-8032   | FLOW INDICATOR                           | 17039-EK-P-DW-0202-08 | 1/2"-CV-42-7787-GT20       | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPT                     | SS316                             | * | * | -         | A | -         |  |
| 128                                                                                                                                                                                                                                                                                                                                                | 13-SDV-0327  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-08 | 6"-PT-13-0118-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 6"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 129                                                                                                                                                                                                                                                                                                                                                | 13-SXV-0327  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-08 | N/A                        | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 130                                                                                                                                                                                                                                                                                                                                                | 13-ZSL-0327  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-08 | N/A                        | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 131                                                                                                                                                                                                                                                                                                                                                | 13-ZSH-0327  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-08 | N/A                        | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 132                                                                                                                                                                                                                                                                                                                                                | 13-PI-0141   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-08 | 6"-PT-13-0118-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 133                                                                                                                                                                                                                                                                                                                                                | 13-PT-0127   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-08 | 6"-PT-13-0118-FC01         | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 134                                                                                                                                                                                                                                                                                                                                                | 13-TW-0143   | THERMOWELL                               | 17039-EK-P-DW-0202-08 | 6"-PT-13-0118-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 135                                                                                                                                                                                                                                                                                                                                                | 13-TI-0143   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-08 | 6"-PT-13-0118-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | * | -         | A | -         |  |
| 136                                                                                                                                                                                                                                                                                                                                                | 13-TW-0020   | THERMOWELL                               | 17039-EK-P-DW-0202-08 | 6"-PT-13-0118-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ             | SS316                             | * | * | -         | A | -         |  |
| 137                                                                                                                                                                                                                                                                                                                                                | 13-TT-0020   | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-08 | 6"-PT-13-0118-FC01         | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | * | -         | A | -         |  |
| 138                                                                                                                                                                                                                                                                                                                                                | 42-FI-8033   | FLOW INDICATOR                           | 17039-EK-P-DW-0202-08 | 1/2"-CV-42-7778-GT20       | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPT                     | SS316                             | * | * | -         | A | -         |  |
| 139                                                                                                                                                                                                                                                                                                                                                | 13-SDV-0336  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-08 | 6"-PT-13-0119-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 6"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 140                                                                                                                                                                                                                                                                                                                                                | 13-SXV-0336  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-08 | N/A                        | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | SS316                             | * | * | -         | A | -         |  |
| 141                                                                                                                                                                                                                                                                                                                                                | 13-ZSL-0336  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-08 | N/A                        | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 142                                                                                                                                                                                                                                                                                                                                                | 13-ZSH-0336  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-08 | N/A                        | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 143                                                                                                                                                                                                                                                                                                                                                | 13-PI-0146   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-08 | 6"-PT-13-0119-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 144                                                                                                                                                                                                                                                                                                                                                | 13-PT-0147   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-08 | 6"-PT-13-0119-FC01         | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 145                                                                                                                                                                                                                                                                                                                                                | 13-TW-0148   | THERMOWELL                               | 17039-EK-P-DW-0202-08 | 6"-PT-13-0119-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 146                                                                                                                                                                                                                                                                                                                                                | 13-TI-0148   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-08 | 6"-PT-13-0119-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | * | -         | A | -         |  |
| 147                                                                                                                                                                                                                                                                                                                                                | 13-TW-0021   | THERMOWELL                               | 17039-EK-P-DW-0202-08 | 6"-PT-13-0119-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ             | SS316                             | * | * | -         | A | -         |  |
| 148                                                                                                                                                                                                                                                                                                                                                | 13-TT-0021   | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-08 | 6"-PT-13-0119-FC01         | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | * | -         | A | -         |  |
| 149                                                                                                                                                                                                                                                                                                                                                | 42-FI-8034   | FLOW INDICATOR                           | 17039-EK-P-DW-0202-08 | 1/2"-CV-42-7789-GT20       | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPT                     | SS316                             | * | * | -         | A | -         |  |
| 150                                                                                                                                                                                                                                                                                                                                                | 13-SDV-0347  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-08 | 6"-PT-13-0120-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 6"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 151                                                                                                                                                                                                                                                                                                                                                | 13-SXV-0347  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-08 | N/A                        | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 152                                                                                                                                                                                                                                                                                                                                                | 13-ZSL-0347  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-08 | N/A                        | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 153                                                                                                                                                                                                                                                                                                                                                | 13-ZSH-0347  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-08 | N/A                        | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 154                                                                                                                                                                                                                                                                                                                                                | 13-PI-0151   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-08 | 6"-PT-13-0120-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 155                                                                                                                                                                                                                                                                                                                                                | 13-PT-0152   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-08 | 6"-PT-13-0120-FC01         | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 156                                                                                                                                                                                                                                                                                                                                                | 13-TW-0153   | THERMOWELL                               | 17039-EK-P-DW-0202-08 | 6"-PT-13-0120-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | * | -         | A | -         |  |
| 157                                                                                                                                                                                                                                                                                                                                                | 13-TI-0153   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-08 | 6"-PT-13-0120-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | * | -         | A | -         |  |
| 158                                                                                                                                                                                                                                                                                                                                                | 13-TW-0022   | THERMOWELL                               | 17039-EK-P-DW-0202-08 | 6"-PT-13-0120-FC01         | N/A | N/A | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ             | SS316                             | * | * | -         | A | -         |  |
| 159                                                                                                                                                                                                                                                                                                                                                | 13-TT-0022   | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-08 | 6"-PT-13-0120-FC01         | PSD | AI  | 350 | 100 | 5-10  | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | * | -         | A | -         |  |
| 160                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -4 | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 161                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -4 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 162                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -4 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 163                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -5 | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 164                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -5 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 165                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -5 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 166                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -6 | PSD | DO  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 167                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -6 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 168                                                                                                                                                                                                                                                                                                                                                | -            | WELL HEAD END I/O'S                      | 17039-EK-P-DW-0202-08 | WELL FLUID FROM LP WELL -6 | DCS | DI  | N/A | N/A | N/A   | N/A   | MPC - 2 | N/A                         | N/A                               | * | * | -         | A | -         |  |
| 169                                                                                                                                                                                                                                                                                                                                                | 13-PSV-0227A | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-09 | 3"-PT-13-0221-FC01         | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ F 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 170                                                                                                                                                                                                                                                                                                                                                | 13-PSV-0227B | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-09 | 3"-PT-13-0222-FC01         | N/A | N/A | 350 | 100 | 10-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ F 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 171                                                                                                                                                                                                                                                                                                                                                | 13-BDV-0228  | BLOWDOWN VALVE                           | 17039-EK-P-DW-0202-09 | 2"-PT-13-0190-FC01         | N/A |     |     |     |       |       |         |                             |                                   |   |   |           |   |           |  |

|                                                                                                                                                                                                                                                                                                                                                  |              |                                        |                                           |                     |     |     |     |     |      |       |         |                             |                                   |   |                                          |   |   |   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------|-------------------------------------------|---------------------|-----|-----|-----|-----|------|-------|---------|-----------------------------|-----------------------------------|---|------------------------------------------|---|---|---|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>A Government of India Enterprise</small></div></div></div> |              |                                        | CLIENT : OIL INDIA LIMITED                |                     |     |     |     |     |      |       |         |                             |                                   |   | DOC NO. :<br><br>REV NO. :<br><br>DATE : |   |   |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                 |              |                                        |                                           |                     |     |     |     |     |      |       |         |                             |                                   |   |                                          |   |   |   |  |
| 182                                                                                                                                                                                                                                                                                                                                              | 13-SXV-0109  | SOLENOID VALVE                         | 17039-EK-P-DW-0202-09                     | N/A                 | PSD | DO  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | SS316                             | * | *                                        | - | A | - |  |
| 183                                                                                                                                                                                                                                                                                                                                              | 13-ZSL-0109  | POSITION SWITCH LOW                    | 17039-EK-P-DW-0202-09                     | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 184                                                                                                                                                                                                                                                                                                                                              | 13-ZSH-0109  | POSITION SWITCH HIGH                   | 17039-EK-P-DW-0202-09                     | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 185                                                                                                                                                                                                                                                                                                                                              | 13-PSV-0233A | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0202-10                     | 3"-PT-13-0223-FC01  | N/A | N/A | 350 | 100 | 5-10 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ F 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 186                                                                                                                                                                                                                                                                                                                                              | 13-PSV-0233B | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0202-10                     | 3"-PT-13-0224-FC01  | N/A | N/A | 350 | 100 | 5-10 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ F 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 187                                                                                                                                                                                                                                                                                                                                              | 13-BDV-0234  | BLOWDOWN VALVE                         | 17039-EK-P-DW-0202-10                     | 2"-PT-13-0185-FC01  | N/A | N/A | 350 | 100 | 5-10 | 27-50 | MPC - 2 | 2"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 188                                                                                                                                                                                                                                                                                                                                              | 13-BXV-0234  | SOLENOID VALVE                         | 17039-EK-P-DW-0202-10                     | N/A                 | ESD | DO  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | SS316                             | * | *                                        | - | A | - |  |
| 189                                                                                                                                                                                                                                                                                                                                              | 13-ZSL-0234  | POSITION SWITCH LOW                    | 17039-EK-P-DW-0202-10                     | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 190                                                                                                                                                                                                                                                                                                                                              | 13-ZSH-0234  | POSITION SWITCH HIGH                   | 17039-EK-P-DW-0202-10                     | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 191                                                                                                                                                                                                                                                                                                                                              | 13-RO-0235   | RESTRICTION ORIFICE                    | 17039-EK-P-DW-0202-10                     | 2"-PT-13-0185-FC01  | N/A | N/A | 350 | 100 | 5-10 | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | *                                        | - | A | - |  |
| 192                                                                                                                                                                                                                                                                                                                                              | 13-PI-0202   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-10                     | 4"-PT-13-0157-FC01  | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | *                                        | - | A | - |  |
| 193                                                                                                                                                                                                                                                                                                                                              | 13-TW-0203   | THERMOWELL                             | 17039-EK-P-DW-0202-10                     | 4"-PT-13-0157-FC01  | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ             | SS316                             | * | *                                        | - | A | - |  |
| 194                                                                                                                                                                                                                                                                                                                                              | 13-TW-0203   | TEMPERATURE INDICATOR                  | 17039-EK-P-DW-0202-10                     | 4"-PT-13-0157-FC01  | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | *                                        | - | A | - |  |
| 195                                                                                                                                                                                                                                                                                                                                              | 13-TW-0227   | THERMOWELL                             | 17039-EK-P-DW-0202-10                     | 4"-PT-13-0157-FC01  | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ             | SS316                             | * | *                                        | - | A | - |  |
| 196                                                                                                                                                                                                                                                                                                                                              | 13-TT-0227   | TEMPERATURE TRANSMITTER                | 17039-EK-P-DW-0202-10                     | 4"-PT-13-0157-FC01  | DCS | AI  | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | *                                        | - | A | - |  |
| 197                                                                                                                                                                                                                                                                                                                                              | 13-PSV-0237A | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0202-10                     | 3"-PT-13-0225-FC01  | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ E 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 198                                                                                                                                                                                                                                                                                                                                              | 13-PSV-0237B | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0202-10                     | 3"-PT-13-0226-FC01  | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ E 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 199                                                                                                                                                                                                                                                                                                                                              | 13-BDV-0236  | BLOWDOWN VALVE                         | 17039-EK-P-DW-0202-10                     | 2"-PT-13-0227-FC01  | N/A | N/A | 350 | 100 | 5-10 | 27-50 | MPC - 2 | 2"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 200                                                                                                                                                                                                                                                                                                                                              | 13-BXV-0236  | SOLENOID VALVE                         | 17039-EK-P-DW-0202-10                     | N/A                 | ESD | DO  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | SS316                             | * | *                                        | - | A | - |  |
| 201                                                                                                                                                                                                                                                                                                                                              | 13-ZSL-0236  | POSITION SWITCH LOW                    | 17039-EK-P-DW-0202-10                     | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 202                                                                                                                                                                                                                                                                                                                                              | 13-ZSH-0236  | POSITION SWITCH HIGH                   | 17039-EK-P-DW-0202-10                     | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 203                                                                                                                                                                                                                                                                                                                                              | 13-RO-0238   | RESTRICTION ORIFICE                    | 17039-EK-P-DW-0202-10                     | 2"-PT-13-0227-FC01  | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | *                                        | - | A | - |  |
| 204                                                                                                                                                                                                                                                                                                                                              | 13-PI-0199   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-10                     | 10"-PT-13-0184-FC01 | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | *                                        | - | A | - |  |
| 205                                                                                                                                                                                                                                                                                                                                              | 13-TW-0207   | THERMOWELL                             | 17039-EK-P-DW-0202-10                     | 10"-PT-13-0184-FC01 | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ             | SS316                             | * | *                                        | - | A | - |  |
| 206                                                                                                                                                                                                                                                                                                                                              | 13-TI-0207   | TEMPERATURE INDICATOR                  | 17039-EK-P-DW-0202-10                     | 10"-PT-13-0184-FC01 | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | *                                        | - | A | - |  |
| 207                                                                                                                                                                                                                                                                                                                                              | 13-TW-0226   | THERMOWELL                             | 17039-EK-P-DW-0202-10                     | 10"-PT-13-0184-FC01 | N/A | N/A | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1 1/2"/2500#RTJ             | SS316                             | * | *                                        | - | A | - |  |
| 208                                                                                                                                                                                                                                                                                                                                              | 13-TT-0226   | TEMPERATURE TRANSMITTER                | 17039-EK-P-DW-0202-10                     | 10"-PT-13-0184-FC01 | DCS | AI  | 350 | 100 | 5-90 | 27-50 | MPC - 2 | 1/2"NPTM                    | SS316                             | * | *                                        | - | A | - |  |
| 209                                                                                                                                                                                                                                                                                                                                              | 13-SDV-0236  | SHUTDOWN VALVE                         | 17039-EK-P-DW-0202-10                     | 10"-PT-13-0184-FC01 | N/A | N/A | 350 | 100 | 5-10 | 27-50 | MPC - 2 | 2"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 210                                                                                                                                                                                                                                                                                                                                              | 13-SXY-0109  | SOLENOID VALVE                         | 17039-EK-P-DW-0202-10                     | N/A                 | PSD | DO  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | SS316                             | * | *                                        | - | A | - |  |
| 211                                                                                                                                                                                                                                                                                                                                              | 13-ZSL-0109  | POSITION SWITCH LOW                    | 17039-EK-P-DW-0202-10                     | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 212                                                                                                                                                                                                                                                                                                                                              | 13-ZSH-0109  | POSITION SWITCH HIGH                   | 17039-EK-P-DW-0202-10                     | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 213                                                                                                                                                                                                                                                                                                                                              | 13-PSV-1942A | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0202-11<br>SHEET ( 1 OF 2 ) | 2"-PV-13-0242-FC01  | N/A | N/A | 385 | 90  | 24.7 | 56    | MPC - 2 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 214                                                                                                                                                                                                                                                                                                                                              | 13-PSV-1942B | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0202-11<br>SHEET ( 1 OF 2 ) | 2"-PV-13-0244-FC01  | N/A | N/A | 385 | 90  | 24.7 | 56    | MPC - 2 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 215                                                                                                                                                                                                                                                                                                                                              | 13-BDV-1945  | BLOWDOWN VALVE                         | 17039-EK-P-DW-0202-11<br>SHEET ( 1 OF 2 ) | 2"-PV-13-0243-FC01  | N/A | N/A | 385 | 90  | 24.7 | 56    | MPC - 2 | 2"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 216                                                                                                                                                                                                                                                                                                                                              | 13-BXV-1945  | SOLENOID VALVE                         | 17039-EK-P-DW-0202-11<br>SHEET ( 1 OF 2 ) | N/A                 | ESD | DO  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | SS316                             | * | *                                        | - | A | - |  |
| 217                                                                                                                                                                                                                                                                                                                                              | 13-ZSL-1945  | POSITION SWITCH LOW                    | 17039-EK-P-DW-0202-11<br>SHEET ( 1 OF 2 ) | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 218                                                                                                                                                                                                                                                                                                                                              | 13-ZSH-1945  | POSITION SWITCH HIGH                   | 17039-EK-P-DW-0202-11<br>SHEET ( 1 OF 2 ) | N/A                 | DCS | DI  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | N/A                               | * | *                                        | - | A | - |  |
| 219                                                                                                                                                                                                                                                                                                                                              | 13-RO-0409   | RESTRICTION ORIFICE                    | 17039-EK-P-DW-0202-11<br>SHEET ( 1 OF 2 ) | 2"-PV-13-0243-FC01  | N/A | N/A | 385 | 90  | 24.7 | 56    | MPC - 2 | 2"/2500#RTJ                 | SS316                             | * | *                                        | - | A | - |  |
| 220                                                                                                                                                                                                                                                                                                                                              | 13-PSV-1965A | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0202-11<br>SHEET ( 2 OF 2 ) | 2"-PV-13-0245-FC01  | N/A | N/A | 385 | 90  | 24.7 | 56    | MPC - 2 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 221                                                                                                                                                                                                                                                                                                                                              | 13-PSV-1965B | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0202-11<br>SHEET ( 2 OF 2 ) | 2"-PV-13-0246-FC01  | N/A | N/A | 385 | 90  | 24.7 | 56    | MPC - 2 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 222                                                                                                                                                                                                                                                                                                                                              | 13-BDV-1970  | BLOWDOWN VALVE                         | 17039-EK-P-DW-0202-11<br>SHEET ( 2 OF 2 ) | 2"-PV-13-0247-FC01  | N/A | N/A | 385 | 90  | 24.7 | 56    | MPC - 2 | 2"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |  |
| 223                                                                                                                                                                                                                                                                                                                                              | 13-BXV-1970  | SOLENOID VALVE                         | 17039-EK-P-DW-0202-11<br>SHEET ( 2 OF 2 ) | N/A                 | ESD | DO  | N/A | N/A | N/A  | N/A   | MPC - 2 | N/A                         | SS316                             | * | *                                        | - | A | - |  |
| 224                                                                                                                                                                                                                                                                                                                                              | 13-ZSL-1970  | POSITION SWITCH LOW                    | 17039-EK-P-DW-0202-11<br>SHEET ( 2 OF 2 ) | N/A                 |     |     |     |     |      |       |         |                             |                                   |   |                                          |   |   |   |  |

|                                                                                                                                                                                                                                                                                                                                                |               |                                                     |                            |                       |     |     |          |     |      |       |                  |                       |                                   |   |   |   |                                                                                                   |   |  |  |           |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|----------------------------|-----------------------|-----|-----|----------|-----|------|-------|------------------|-----------------------|-----------------------------------|---|---|---|---------------------------------------------------------------------------------------------------|---|--|--|-----------|--|--|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>(an enterprise of India Group)</small></div></div></div> |               |                                                     | CLIENT : OIL INDIA LIMITED |                       |     |     |          |     |      |       |                  |                       |                                   |   |   |   | DOC NO. :                                                                                         |   |  |  |           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                |               |                                                     |                            |                       |     |     |          |     |      |       |                  |                       |                                   |   |   |   | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |   |  |  | REV NO. : |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                |               |                                                     |                            |                       |     |     |          |     |      |       |                  |                       |                                   |   |   |   |                                                                                                   |   |  |  | DATE :    |  |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                               |               |                                                     |                            |                       |     |     |          |     |      |       |                  |                       |                                   |   |   |   |                                                                                                   |   |  |  |           |  |  |  |
| 243                                                                                                                                                                                                                                                                                                                                            | 13-BDV-0207   | BLOWDOWN VALVE                                      | 17039-EK-P-DW-0202-12      | 2"-PV-13-0220-DC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 244                                                                                                                                                                                                                                                                                                                                            | 13-BXV-0207   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-12      | N/A                   | ESD | DO  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 245                                                                                                                                                                                                                                                                                                                                            | 13-ZSL-0207   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-12      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 246                                                                                                                                                                                                                                                                                                                                            | 13-ZSH-0207   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-12      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 247                                                                                                                                                                                                                                                                                                                                            | 13-RO-0208    | RESTRICTION ORIFICE                                 | 17039-EK-P-DW-0202-12      | 2"-PV-13-0220-DC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 248                                                                                                                                                                                                                                                                                                                                            | 13-PT-0212    | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL            | 17039-EK-P-DW-0202-12      | EK-MBD-1110           | PSD | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 249                                                                                                                                                                                                                                                                                                                                            | 13-PI-0213    | PRESSURE INDICATOR WITH DIAPHRAGM SEAL              | 17039-EK-P-DW-0202-12      | EK-MBD-1110           | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 250                                                                                                                                                                                                                                                                                                                                            | 13-PT-0209    | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL            | 17039-EK-P-DW-0202-12      | EK-MBD-1110           | DCS | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 251                                                                                                                                                                                                                                                                                                                                            | 13-PT-8051    | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL            | 17039-EK-P-DW-0202-12      | 2"-PV-13-0201-DC01    | DCS | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 252                                                                                                                                                                                                                                                                                                                                            | 13-FT-0210    | SENIOR ORIFICE FLOW TRANSMITTER                     | 17039-EK-P-DW-0202-12      | 2"-PV-13-0201-DC01    | DCS | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 253                                                                                                                                                                                                                                                                                                                                            | 13-TW-8052    | THERMOWELL                                          | 17039-EK-P-DW-0202-12      | 2"-PV-13-0201-DC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 254                                                                                                                                                                                                                                                                                                                                            | 13-TT-8052    | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0202-12      | 2"-PV-13-0201-DC01    | DCS | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 1/2"NPTM              | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 255                                                                                                                                                                                                                                                                                                                                            | 13-PV-0209A   | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0202-12      | 2"-PV-13-0202-DC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 1"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 256                                                                                                                                                                                                                                                                                                                                            | 13-PY-0209A   | POSITIONER                                          | 17039-EK-P-DW-0202-12      | N/A                   | DCS | AO  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 257                                                                                                                                                                                                                                                                                                                                            | 13-PV-0209B   | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0202-12      | 2"-PV-13-0203-DC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 1"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 258                                                                                                                                                                                                                                                                                                                                            | 13-PY-0209B   | POSITIONER                                          | 17039-EK-P-DW-0202-12      | N/A                   | DCS | AO  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 259                                                                                                                                                                                                                                                                                                                                            | 13-TW-0215    | THERMOWELL                                          | 17039-EK-P-DW-0202-12      | EK-MBD-1110           | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 260                                                                                                                                                                                                                                                                                                                                            | 13-TI-0215    | TEMPERATURE INDICATOR                               | 17039-EK-P-DW-0202-12      | EK-MBD-1110           | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 1/2"NPTM              | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 261                                                                                                                                                                                                                                                                                                                                            | 13-LT-0214    | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL       | 17039-EK-P-DW-0202-12      | EK-MBD-1110           | PSD | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 262                                                                                                                                                                                                                                                                                                                                            | 13-LG/LT-0216 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0202-12      | EK-MBD-1110           | DCS | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 263                                                                                                                                                                                                                                                                                                                                            | 13-FT-0217    | CORIO LIS TYPE FLOW TRANSMITTER                     | 17039-EK-P-DW-0202-12      | 6"-PL-13-0204-DC01    | DCS | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 6"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 264                                                                                                                                                                                                                                                                                                                                            | 13-LV-0216    | LEVEL CONTROL VALVE                                 | 17039-EK-P-DW-0202-12      | 6"-PL-13-0204-DC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 1"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 265                                                                                                                                                                                                                                                                                                                                            | 13-LV-0216    | POSITIONER                                          | 17039-EK-P-DW-0202-12      | N/A                   | DCS | AO  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 266                                                                                                                                                                                                                                                                                                                                            | 13-SDV-0219   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-12      | 2"-PT-13-0205-FC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/2500#RTJ           | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 267                                                                                                                                                                                                                                                                                                                                            | 13-SXV-0219   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-12      | N/A                   | PSD | DO  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 268                                                                                                                                                                                                                                                                                                                                            | 13-ZSL-0219   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-12      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 269                                                                                                                                                                                                                                                                                                                                            | 13-ZSH-0219   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-12      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 270                                                                                                                                                                                                                                                                                                                                            | 20-SDV-1171   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-12      | 2"-PV-13-0203-AC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 271                                                                                                                                                                                                                                                                                                                                            | 20-SXV-1171   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-12      | N/A                   | PSD | DO  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 272                                                                                                                                                                                                                                                                                                                                            | 20-ZSL-1171   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-12      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 273                                                                                                                                                                                                                                                                                                                                            | 20-ZSH-1171   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-12      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 274                                                                                                                                                                                                                                                                                                                                            | 20-SDV-1172   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-12      | 2"-PV-13-0203-AC01    | N/A | N/A | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 275                                                                                                                                                                                                                                                                                                                                            | 20-SXV-1172   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-12      | N/A                   | PSD | DO  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 276                                                                                                                                                                                                                                                                                                                                            | 20-ZSL-1172   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-12      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 277                                                                                                                                                                                                                                                                                                                                            | 20-ZSH-1172   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-12      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A   | MPC - 2          | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 278                                                                                                                                                                                                                                                                                                                                            | 13-PT-0209B   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL            | 17039-EK-P-DW-0202-12      | 2"-PV-13-0203-AC01    | DCS | AI  | 100/FV   | 80  | 5-90 | 27-50 | MPC - 2          | 2"/900#RTJ            | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 279                                                                                                                                                                                                                                                                                                                                            | 20-PSV-1380   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0202-13      | 2"-HM-41-3753-BC01    | N/A | N/A | 12/FV    | 250 | 5.5  | 200   | CSC-4 & MPC - 10 | 1"/300#RF D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 280                                                                                                                                                                                                                                                                                                                                            | 20-PSV-1380B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0202-13      | 2"-HM-41-3753-BC01    | N/A | N/A | 12/FV    | 250 | 5.5  | 200   | CSC-4 & MPC - 10 | 1"/300#RF D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 281                                                                                                                                                                                                                                                                                                                                            | 41-SDV-3750   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-13      | 2"-HM-41-3762-BC01-HC | N/A | N/A | 12/FV    | 250 | 5.5  | 200   | CSC-4 & MPC - 10 | 2"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 282                                                                                                                                                                                                                                                                                                                                            | 41-SDY-3750   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-13      | N/A                   | PSD | DO  | N/A      | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 283                                                                                                                                                                                                                                                                                                                                            | 41-ZSL-3750   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-13      | N/A                   | PSD | DI  | N/A      | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 284                                                                                                                                                                                                                                                                                                                                            | 41-ZSH-3750   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-13      | N/A                   | PSD | DI  | N/A      | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 285                                                                                                                                                                                                                                                                                                                                            | 41-TV-3751    | TEMPERATURE CONTROL VALVE                           | 17039-EK-P-DW-0202-13      | 2"-HM-41-3752-BC01-HC | N/A | N/A | FOW+0.07 | 108 | ATM  | 27-50 | CSC-4 & MPC - 10 | 1"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 286                                                                                                                                                                                                                                                                                                                                            | 41-TV-3751    | POSITIONER                                          | 17039-EK-P-DW-0202-13      | N/A                   | DCS | AO  | N/A      | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 287                                                                                                                                                                                                                                                                                                                                            | 41-TW-3751    | THERMOWELL                                          | 17039-EK-P-DW-0202-13      | EK-BBJ-1552           | N/A | N/A | FOW+0.07 | 108 | ATM  | 27-50 | CSC-4 & MPC - 10 | 2"/150#RF             | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 288                                                                                                                                                                                                                                                                                                                                            | 41-TT-3751    | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0202-13      | EK-BBJ-1552           | DCS | AI  | FOW+0.07 | 108 | ATM  | 27-50 | CSC-4 & MPC - 10 | 1/2"NPTM              | SS316                             | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 289                                                                                                                                                                                                                                                                                                                                            | 20-PVSV-0429  | PRESSURE VACUUM SAFETY VALVE                        | 17039-EK-P-DW-0202-13      | EK-BBJ-1552           | N/A | N/A | FOW+0.07 | 108 | ATM  | 27-50 | CSC-4 & MPC - 10 | 6"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                                                                 | - |  |  |           |  |  |  |
| 290                                                                                                                                                                                                                                                                                                                                            | 20-LIT-1382   | RADAR TYPE LEVEL TRANSMITTER                        | 17039-EK-P-DW-0202-13      | EK-BBJ-1              |     |     |          |     |      |       |                  |                       |                                   |   |   |   |                                                                                                   |   |  |  |           |  |  |  |

|                                                                                                                                                                                                                                                                                                                                                            |              |                                          |                            |                       |     |     |          |     |     |       |                  |                |                                   |   |                                          |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------|----------------------------|-----------------------|-----|-----|----------|-----|-----|-------|------------------|----------------|-----------------------------------|---|------------------------------------------|---|---|---|
| <div> <b>KAVIN™</b></div> <div> <b>ऑयल इंडिया लिमिटेड</b><br/><small>(A MAHINDRA COMPANY)</small><br/><b>Oil India Limited</b><br/><small>(A Government of India Enterprise)</small></div> |              |                                          | CLIENT : OIL INDIA LIMITED |                       |     |     |          |     |     |       |                  |                |                                   |   | DOC NO. :<br><br>REV NO. :<br><br>DATE : |   |   |   |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                          |              |                                          |                            |                       |     |     |          |     |     |       |                  |                |                                   |   |                                          |   |   |   |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                           |              |                                          |                            |                       |     |     |          |     |     |       |                  |                |                                   |   |                                          |   |   |   |
| 302                                                                                                                                                                                                                                                                                                                                                        | 20-ZSH-0303  | CLOSE FEEDBACK                           | 17039-EK-P-DW-0202-13      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 303                                                                                                                                                                                                                                                                                                                                                        | 20-SSR-0303  | REMOTE / LOCAL FEEDBACK                  | 17039-EK-P-DW-0202-13      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 304                                                                                                                                                                                                                                                                                                                                                        | 20-STR-0303  | OPEN COMMAND                             | 17039-EK-P-DW-0202-13      | N/A                   | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 305                                                                                                                                                                                                                                                                                                                                                        | 20-STP-0303  | CLOSE COMMAND                            | 17039-EK-P-DW-0202-13      | N/A                   | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 306                                                                                                                                                                                                                                                                                                                                                        | 20-XLT-0303  | TRIP                                     | 17039-EK-P-DW-0202-13      | N/A                   | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 307                                                                                                                                                                                                                                                                                                                                                        | 20-MOV-3750  | MOTOR OPERATED VALVE                     | 17039-EK-P-DW-0202-13      | 4"-PL-44-1380-AC01    | N/A | N/A | FOW+0.07 | 108 | ATM | 27-50 | CSC-4 & MPC - 10 | 4"/150#RF      | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |
| 308                                                                                                                                                                                                                                                                                                                                                        | 20-ZSL-3750  | OPEN FEEDBACK                            | 17039-EK-P-DW-0202-13      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 309                                                                                                                                                                                                                                                                                                                                                        | 20-ZSH-3750  | CLOSE FEEDBACK                           | 17039-EK-P-DW-0202-13      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 310                                                                                                                                                                                                                                                                                                                                                        | 20-SSR-3750  | REMOTE / LOCAL FEEDBACK                  | 17039-EK-P-DW-0202-13      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 311                                                                                                                                                                                                                                                                                                                                                        | 20-STR-3750  | OPEN COMMAND                             | 17039-EK-P-DW-0202-13      | N/A                   | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 312                                                                                                                                                                                                                                                                                                                                                        | 20-STP-3750  | CLOSE COMMAND                            | 17039-EK-P-DW-0202-13      | N/A                   | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 313                                                                                                                                                                                                                                                                                                                                                        | 20-XLT-3750  | TRIP                                     | 17039-EK-P-DW-0202-13      | N/A                   | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 314                                                                                                                                                                                                                                                                                                                                                        | 41-XS-1001A  | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0202-13      | EK-BBJ-1111           | PSD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 315                                                                                                                                                                                                                                                                                                                                                        | 41-XXS-1001A | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0202-13      | EK-BBJ-1111           | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 316                                                                                                                                                                                                                                                                                                                                                        | 41-XA-1001A  | FAULT ALARM                              | 17039-EK-P-DW-0202-13      | EK-BBJ-1111           | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 317                                                                                                                                                                                                                                                                                                                                                        | 41-XI-1001A  | RUNNING                                  | 17039-EK-P-DW-0202-13      | EK-BBJ-1111           | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 318                                                                                                                                                                                                                                                                                                                                                        | 41-XC-1001A  | START / STOP                             | 17039-EK-P-DW-0202-13      | EK-BBJ-1111           | DCS | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 319                                                                                                                                                                                                                                                                                                                                                        | 41-XE-1001A  | AVAILABLE                                | 17039-EK-P-DW-0202-13      | EK-BBJ-1111           | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 320                                                                                                                                                                                                                                                                                                                                                        | 41-XB-1001A  | TRIP FEEDBACK                            | 17039-EK-P-DW-0202-13      | EK-BBJ-1111           | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 321                                                                                                                                                                                                                                                                                                                                                        | 20-FV-1391   | FLOW CONTROL VALVE                       | 17039-EK-P-DW-0202-14      | 2"-PL-20-0882-BC01    | N/A | N/A | 15       | 80  | 10  | 55    | CSC-4 & MPC - 10 | 1"/300#RF      | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |
| 322                                                                                                                                                                                                                                                                                                                                                        | 20-FY-1391   | POSITIONER                               | 17039-EK-P-DW-0202-14      | N/A                   | DCS | AO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 323                                                                                                                                                                                                                                                                                                                                                        | 20-PI-1389A  | PRESSURE INDICATOR                       | 17039-EK-P-DW-0202-14      | EK-PBA-1112A          | N/A | N/A | 15       | 80  | 10  | 55    | CSC-4 & MPC - 10 | 1/2"NPTM       | SS316                             | * | *                                        | - | A | - |
| 324                                                                                                                                                                                                                                                                                                                                                        | 20-PT-1390A  | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0202-14      | EK-PBA-1112A          | PSD | AI  | 15       | 80  | 10  | 55    | CSC-4 & MPC - 10 | 1/2"NPTF       | SS316                             | * | *                                        | - | A | - |
| 325                                                                                                                                                                                                                                                                                                                                                        | 20-FT-1391   | CORIOLIS TYPE FLOW TRANSMITTER           | 17039-EK-P-DW-0202-14      | 3"-PL-20-0881-BC01    | DCS | AI  | 15       | 80  | 10  | 55    | CSC-4 & MPC - 10 | 3"/300#RF      | SS316                             | * | *                                        | - | A | - |
| 326                                                                                                                                                                                                                                                                                                                                                        | 20-XS-1112A  | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0202-14      | EK-PBA-1112A-ECB      | PSD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 327                                                                                                                                                                                                                                                                                                                                                        | 20-XXS-1112A | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0202-14      | EK-PBA-1112A-ECB      | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 328                                                                                                                                                                                                                                                                                                                                                        | 20-XA-1112A  | FAULT ALARM                              | 17039-EK-P-DW-0202-14      | EK-PBA-1112A-ECB      | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 329                                                                                                                                                                                                                                                                                                                                                        | 20-XI-1112A  | RUNNING                                  | 17039-EK-P-DW-0202-14      | EK-PBA-1112A-ECB      | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 330                                                                                                                                                                                                                                                                                                                                                        | 20-XC-1112A  | START / STOP                             | 17039-EK-P-DW-0202-14      | EK-PBA-1112A-ECB      | DCS | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 331                                                                                                                                                                                                                                                                                                                                                        | 20-XE-1112A  | AVAILABLE                                | 17039-EK-P-DW-0202-14      | EK-PBA-1112A-ECB      | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 332                                                                                                                                                                                                                                                                                                                                                        | 20-XB-1112A  | TRIP FEEDBACK                            | 17039-EK-P-DW-0202-14      | EK-PBA-1112A-ECB      | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 333                                                                                                                                                                                                                                                                                                                                                        | 20-PI-1389B  | PRESSURE INDICATOR                       | 17039-EK-P-DW-0202-14      | EK-PBA-1112B          | N/A | N/A | 15       | 80  | 10  | 55    | CSC-4 & MPC - 10 | 1/2"NPTM       | SS316                             | * | *                                        | - | A | - |
| 334                                                                                                                                                                                                                                                                                                                                                        | 20-PT-1390B  | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0202-14      | EK-PBA-1112B          | PSD | AI  | 15       | 80  | 10  | 55    | CSC-4 & MPC - 10 | 1/2"NPTF       | SS316                             | * | *                                        | - | A | - |
| 335                                                                                                                                                                                                                                                                                                                                                        | 20-XS-1112B  | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0202-14      | EK-PBA-1112B-ECB      | PSD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 336                                                                                                                                                                                                                                                                                                                                                        | 20-XXS-1112B | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0202-14      | EK-PBA-1112B-ECB      | ESD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 337                                                                                                                                                                                                                                                                                                                                                        | 20-XA-1112B  | FAULT ALARM                              | 17039-EK-P-DW-0202-14      | EK-PBA-1112B-ECB      | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 338                                                                                                                                                                                                                                                                                                                                                        | 20-XI-1112B  | RUNNING                                  | 17039-EK-P-DW-0202-14      | EK-PBA-1112B-ECB      | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 339                                                                                                                                                                                                                                                                                                                                                        | 20-XC-1112B  | START / STOP                             | 17039-EK-P-DW-0202-14      | EK-PBA-1112B-ECB      | DCS | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 340                                                                                                                                                                                                                                                                                                                                                        | 20-XE-1112B  | AVAILABLE                                | 17039-EK-P-DW-0202-14      | EK-PBA-1112B-ECB      | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 341                                                                                                                                                                                                                                                                                                                                                        | 20-XB-1112B  | TRIP FEEDBACK                            | 17039-EK-P-DW-0202-14      | EK-PBA-1112A-ECB      | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 342                                                                                                                                                                                                                                                                                                                                                        | 13-SDV-1172  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-15      | 3"-PV-13-7625-FC01-1N | N/A | N/A | 385      | 250 | 350 | 27-50 | CSC-4 & MPC - 10 | 3"/2500#RTJ    | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |
| 343                                                                                                                                                                                                                                                                                                                                                        | 13-SXY-1172  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-15      | N/A                   | PSD | DO  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | SS316                             | * | *                                        | - | A | - |
| 344                                                                                                                                                                                                                                                                                                                                                        | 13-ZSL-1172  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-15      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 345                                                                                                                                                                                                                                                                                                                                                        | 13-ZSH-1172  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-15      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                               | * | *                                        | - | A | - |
| 346                                                                                                                                                                                                                                                                                                                                                        | 41-PSV-3151A | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-15      | 2"-HM-41-3045-BC01-3N | N/A | N/A | 12       | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |
| 347                                                                                                                                                                                                                                                                                                                                                        | 41-PSV-3151B | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-15      | 2"-HM-41-3046-BC01-3N | N/A | N/A | 12       | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                        | - | A | - |
| 348                                                                                                                                                                                                                                                                                                                                                        | 13-PIT-0450  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-15      | 3"-PV-13-7625-FC01-1N | PSD | AI  | 385      | 250 | 350 | 27-50 | CSC-4 & MPC - 10 | 2"/2500#RTJ    | SS316                             | * | *                                        | - | A | - |
| 349                                                                                                                                                                                                                                                                                                                                                        | 13-PI-0449   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-15      | 3"-PV-13-7625-FC01-1N | N/A | N/A | 385      | 250 | 350 | 27-50 | CSC-4 & MPC - 10 | 2"/2500#RTJ    | SS316                             | * | *                                        | - | A | - |
| 350                                                                                                                                                                                                                                                                                                                                                        | 13-TW-0451   | THERMOWELL                               | 17039-EK-P-DW-0202-15      | 3"-PV-13-7625-FC01-1N | N   |     |          |     |     |       |                  |                |                                   |   |                                          |   |   |   |

|                                                                                                                                                                |               |                                          |                                                                                                                                                            |                        |     |     |     |     |       |       |                  |                           |                                   |   |   |   |                                                             |   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|-----|-----|-------|-------|------------------|---------------------------|-----------------------------------|---|---|---|-------------------------------------------------------------|---|--|
| <div><div><div>Oil India Limited</div><div>Oil India Limited</div></div></div> |               |                                          | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                        |     |     |     |     |       |       |                  |                           |                                   |   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |  |
| INSTRUMENT INDEX                                                                                                                                               |               |                                          |                                                                                                                                                            |                        |     |     |     |     |       |       |                  |                           |                                   |   |   |   |                                                             |   |  |
| 363                                                                                                                                                            | 13-RO-7630    | RESTRICTION ORIFICE                      | 17039-EK-P-DW-0202-15                                                                                                                                      | 2"-PV-20-7629-FC01-3N  | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                             | * | * | - | A                                                           | - |  |
| 364                                                                                                                                                            | 13-TV-7629    | TEMPERATURE CONTROL VALVE                | 17039-EK-P-DW-0202-15                                                                                                                                      | 2"-HM-41-3043-BC01-1N  | N/A | N/A | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1"/300#RF                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 365                                                                                                                                                            | 13TY-7629     | POSITIONER                               | 17039-EK-P-DW-0202-15                                                                                                                                      | N/A                    | DCS | AO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                               | * | * | - | A                                                           | - |  |
| 366                                                                                                                                                            | 41-SDV-3130   | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-15                                                                                                                                      | 2"-HM-41-3034-BC01-1N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2"/300#RF                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 367                                                                                                                                                            | 41-SXV-3130   | SOLENOID VALVE                           | 17039-EK-P-DW-0202-15                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | SS316                             | * | * | - | A                                                           | - |  |
| 368                                                                                                                                                            | 41-ZSL-3130   | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-15                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                               | * | * | - | A                                                           | - |  |
| 369                                                                                                                                                            | 41-ZSH-3130   | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-15                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                               | * | * | - | A                                                           | - |  |
| 370                                                                                                                                                            | 41-PI-3031    | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-15                                                                                                                                      | 2"-HM-41-3034-BC01-1N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2"/300#RF                 | SS316                             | * | * | - | A                                                           | - |  |
| 371                                                                                                                                                            | 41-TW-3032    | THERMOWELL                               | 17039-EK-P-DW-0202-15                                                                                                                                      | 2"-HM-41-3034-BC01-1N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1 1/2"/300#RF             | SS316                             | * | * | - | A                                                           | - |  |
| 372                                                                                                                                                            | 41-TI-3032    | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-15                                                                                                                                      | 2"-HM-41-3034-BC01-1N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                             | * | * | - | A                                                           | - |  |
| 373                                                                                                                                                            | 41-PDIT-3036  | DIFFERENCIAL PRESSURE TRANSMITTER        | 17039-EK-P-DW-0202-15                                                                                                                                      | ACROSE EK-HBG-1600     | DCS | AI  | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1/2"NPT                   | SS316                             | * | * | - | A                                                           | - |  |
| 374                                                                                                                                                            | 13-TW-7627    | THERMOWELL                               | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-PV-13-7626-FC01-1N  | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                             | * | * | - | A                                                           | - |  |
| 375                                                                                                                                                            | 13-TI-7627    | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-PV-13-7626-FC01-1N  | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                             | * | * | - | A                                                           | - |  |
| 376                                                                                                                                                            | 13-TIT-7628   | THERMOWELL                               | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-PV-13-7626-FC01-1N  | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                             | * | * | - | A                                                           | - |  |
| 377                                                                                                                                                            | 13-TIT-7628   | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-PV-13-7626-FC01-1N  | PSD | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                             | * | * | - | A                                                           | - |  |
| 378                                                                                                                                                            | 13-PIT-7620   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-15                                                                                                                                      | 6"-PV-13-0220-FC01-1N  | PSD | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                             | * | * | - | A                                                           | - |  |
| 379                                                                                                                                                            | 13-TW-7629    | THERMOWELL                               | 17039-EK-P-DW-0202-15                                                                                                                                      | 6"-PV-13-0220-FC01-1N  | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                             | * | * | - | A                                                           | - |  |
| 380                                                                                                                                                            | 13-TIT-7629   | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-15                                                                                                                                      | 6"-PV-13-0220-FC01-1N  | DCS | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                             | * | * | - | A                                                           | - |  |
| 381                                                                                                                                                            | 20-PSV-7730A  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-GL-85-8075-DC01-3N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 11/2" 900#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 382                                                                                                                                                            | 20-PSV-7730B  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-GL-85-8076-DC01-3N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 11/2" 900#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 383                                                                                                                                                            | 20-PSV-7730A  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-PV-85-7618-BC01-3N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2" E 3"/300#RF            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 384                                                                                                                                                            | 20-PSV-7730B  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-PV-85-7640-BC01-3N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2" E 3"/300#RF            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 385                                                                                                                                                            | 85-SDV-8050   | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-15                                                                                                                                      | 3"-PV-13-7626-FC01-1N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 3"/2500#RTJF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 386                                                                                                                                                            | 85-SXV-8050   | SOLENOID VALVE                           | 17039-EK-P-DW-0202-15                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | SS316                             | * | * | - | A                                                           | - |  |
| 387                                                                                                                                                            | 85-ZSL-8050   | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-15                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                               | * | * | - | A                                                           | - |  |
| 388                                                                                                                                                            | 85-ZSH-8050   | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-15                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                               | * | * | - | A                                                           | - |  |
| 389                                                                                                                                                            | 13-SDV-1172A  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-13-7625A-FC01-1N | N/A | N/A | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 3"/2500#RTJ               | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 390                                                                                                                                                            | 13-SXY-1172A  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-16                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | SS316                             | * | * | - | A                                                           | - |  |
| 391                                                                                                                                                            | 13-ZSL-1172A  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-16                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                               | * | * | - | A                                                           | - |  |
| 392                                                                                                                                                            | 13-ZSH-1172A  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-16                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                               | * | * | - | A                                                           | - |  |
| 393                                                                                                                                                            | 41-PSV-3151C  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-16                                                                                                                                      | 2"-HM-41-3045A-BC01-3N | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 394                                                                                                                                                            | 41-PSV-3151D  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-16                                                                                                                                      | 2"-HM-41-3046A-BC01-3N | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 395                                                                                                                                                            | 13-PIT-0450A  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-13-7625A-FC01-1N | PSD | AI  | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                             | * | * | - | A                                                           | - |  |
| 396                                                                                                                                                            | 13-PI-0449A   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-13-7625A-FC01-1N | N/A | N/A | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                             | * | * | - | A                                                           | - |  |
| 397                                                                                                                                                            | 13-TW-0451A   | THERMOWELL                               | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-13-7625A-FC01-1N | N/A | N/A | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                             | * | * | - | A                                                           | - |  |
| 398                                                                                                                                                            | 13-TI-0451A   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-13-7625A-FC01-1N | N/A | N/A | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                             | * | * | - | A                                                           | - |  |
| 399                                                                                                                                                            | 13-PDIT-7626A | DIFFERENCIAL PRESSURE TRANSMITTER        | 17039-EK-P-DW-0202-16                                                                                                                                      | ACROSE EK-HBG-1610     | DCS | AI  | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 1/2"NPT                   | SS316                             | * | * | - | A                                                           | - |  |
| 400                                                                                                                                                            | 41-PT-3035A   | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0202-16                                                                                                                                      | 2"-HM-41-3049A-BC01-3N | PSD | AI  | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1/2"NPTF                  | SS316                             | * | * | - | A                                                           | - |  |
| 401                                                                                                                                                            | 41-PIT-3033A  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-16                                                                                                                                      | 2"-HM-41-3043A-BC01-3N | PSD | AI  | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 2"/300#RF                 | SS316                             | * | * | - | A                                                           | - |  |
| 402                                                                                                                                                            | 41-TW-3034A   | THERMOWELL                               | 17039-EK-P-DW-0202-16                                                                                                                                      | 2"-HM-41-3043A-BC01-3N | N/A | N/A | 12  | 250 | 4.5   | 100   | CSC-4 & MPC -    |                           |                                   |   |   |   |                                                             |   |  |

|                                                                                                                         |               |                                          |                                                                                                                                                            |                        |     |     |     |     |       |       |                  |                             |                                   |   |   |                                                             |   |   |
|-------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|-----|-----|-------|-------|------------------|-----------------------------|-----------------------------------|---|---|-------------------------------------------------------------|---|---|
| <div><div>Oil India Limited</div></div> |               |                                          | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                        |     |     |     |     |       |       |                  |                             |                                   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |   |
| INSTRUMENT INDEX                                                                                                        |               |                                          |                                                                                                                                                            |                        |     |     |     |     |       |       |                  |                             |                                   |   |   |                                                             |   |   |
| 424                                                                                                                     | 13-TIT-7628A  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-13-7626A-FC01-1N | PSD | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | -                                                           | A | - |
| 425                                                                                                                     | 13-PIT-7620A  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-16                                                                                                                                      | 6"-PV-13-0220A-FC01-1N | PSD | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | -                                                           | A | - |
| 426                                                                                                                     | 13-TW-7629A   | THERMOWELL                               | 17039-EK-P-DW-0202-16                                                                                                                                      | 6"-PV-13-0220A-FC01-1N | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | -                                                           | A | - |
| 427                                                                                                                     | 13-TIT-7629A  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-16                                                                                                                                      | 6"-PV-13-0220A-FC01-1N | DCS | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | -                                                           | A | - |
| 428                                                                                                                     | 20-PSV-7730A  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-GL-85-8077-DC01-3N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 11/2" 900#RTJ D 3"/300#RF   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 429                                                                                                                     | 20-PSV-7730B  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-GL-85-8078-DC01-3N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 11/2" 900#RTJ D 3"/300#RF   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 430                                                                                                                     | 20-PSV-7731A  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-85-8010-BC01-3N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2" E 3"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 431                                                                                                                     | 20-PSV-7730B  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-85-8011-BC01-3N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2" E 3"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 432                                                                                                                     | 85-SDV-8052   | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-16                                                                                                                                      | 3"-PV-13-7626-FC01-1N  | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 3"/2500#RTJF                | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 433                                                                                                                     | 85-SXV-8052   | SOLENOID VALVE                           | 17039-EK-P-DW-0202-16                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | SS316                             | * | * | -                                                           | A | - |
| 434                                                                                                                     | 85-ZSL-8052   | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-16                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -                                                           | A | - |
| 435                                                                                                                     | 85-ZSH-8050   | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-16                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -                                                           | A | - |
| 436                                                                                                                     | 13-SDV-1172B  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-17                                                                                                                                      | 3"-PV-13-7625B-FC01-1N | N/A | N/A | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 3"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 437                                                                                                                     | 13-SXY-1172B  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | SS316                             | * | * | -                                                           | A | - |
| 438                                                                                                                     | 13-ZSL-1172B  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -                                                           | A | - |
| 439                                                                                                                     | 13-ZSH-1172B  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -                                                           | A | - |
| 440                                                                                                                     | 41-PSV-3151E  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-HM-41-3045B-BC01-3N | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 441                                                                                                                     | 41-PSV-3151F  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-HM-41-3046B-BC01-3N | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 442                                                                                                                     | 13-PIT-0450B  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-17                                                                                                                                      | 3"-PV-13-7625B-FC01-1N | PSD | AI  | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | -                                                           | A | - |
| 443                                                                                                                     | 13-PI-0449B   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-17                                                                                                                                      | 3"-PV-13-7625B-FC01-1N | N/A | N/A | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | -                                                           | A | - |
| 444                                                                                                                     | 13-TW-0451B   | THERMOWELL                               | 17039-EK-P-DW-0202-17                                                                                                                                      | 3"-PV-13-7625B-FC01-1N | N/A | N/A | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | -                                                           | A | - |
| 445                                                                                                                     | 13-TI-0451B   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-17                                                                                                                                      | 3"-PV-13-7625B-FC01-1N | N/A | N/A | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | -                                                           | A | - |
| 446                                                                                                                     | 13-PDIT-7626B | DIFFERENCIAL PRESSURE TRANSMITTER        | 17039-EK-P-DW-0202-17                                                                                                                                      | ACROSE EK-HBG-1620     | DCS | AI  | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 1/2"NPT                     | SS316                             | * | * | -                                                           | A | - |
| 447                                                                                                                     | 41-PT-3035B   | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-HM-41-3049B-BC01-3N | DCS | AI  | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1/2"NPTF                    | SS316                             | * | * | -                                                           | A | - |
| 448                                                                                                                     | 41-PIT-3033B  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-HM-41-3043B-BC01-3N | PSD | AI  | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | -                                                           | A | - |
| 449                                                                                                                     | 41-TW-3034B   | THERMOWELL                               | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-HM-41-3043B-BC01-3N | N/A | N/A | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1 1/2"/300#RF               | SS316                             | * | * | -                                                           | A | - |
| 450                                                                                                                     | 41-TI-3034B   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-HM-41-3043B-BC01-3N | N/A | N/A | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | -                                                           | A | - |
| 451                                                                                                                     | 13-PSV-7720E  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-PV-20-7627B-FC01-3N | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 452                                                                                                                     | 13-PSV-7720F  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-PV-20-7628B-FC01-3N | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 453                                                                                                                     | 13-BDV-7727B  | BLOWDOWN VALVE                           | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-PV-20-7629B-FC01-3N | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 454                                                                                                                     | 13-BXV-7727B  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | SS316                             | * | * | -                                                           | A | - |
| 455                                                                                                                     | 13-ZSL-7727B  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -                                                           | A | - |
| 456                                                                                                                     | 13-ZSH-7727B  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -                                                           | A | - |
| 457                                                                                                                     | 13-RO-7630B   | RESTRICTION ORIFICE                      | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-PV-20-7629B-FC01-3N | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | -                                                           | A | - |
| 458                                                                                                                     | 13-TV-7629B   | TEMPERATURE CONTROL VALVE                | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-HM-41-3043B-BC01-1N | N/A | N/A | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1"/300#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 459                                                                                                                     | 13TY-7629B    | POSITIONER                               | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | DCS | AO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -                                                           | A | - |
| 460                                                                                                                     | 41-SDV-3130B  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-17                                                                                                                                      | 2"-HM-41-3034B-BC01-1N | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2"/300#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 461                                                                                                                     | 41-SXV-3130B  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -                                                           | A | - |
| 462                                                                                                                     | 41-ZSL-3130B  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-17                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | -</                                                         |   |   |

|                                                                                                                                                                                                   |               |                                          |                       |                                                                                                    |     |     |     |     |       |       |                  |                             |                                   |   |   |   |           |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-------|-------|------------------|-----------------------------|-----------------------------------|---|---|---|-----------|---|--|
| <div><div></div><div></div></div> |               |                                          |                       | CLIENT : OIL INDIA LIMITED                                                                         |     |     |     |     |       |       |                  |                             |                                   |   |   |   | DOC NO. : |   |  |
|                                                                                                                                                                                                   |               |                                          |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJJAN, ASSAM |     |     |     |     |       |       |                  |                             |                                   |   |   |   | REV NO. : |   |  |
|                                                                                                                                                                                                   |               |                                          |                       | INSTRUMENT INDEX                                                                                   |     |     |     |     |       |       |                  |                             |                                   |   |   |   | DATE :    |   |  |
|                                                                                                                                                                                                   |               |                                          |                       |                                                                                                    |     |     |     |     |       |       |                  |                             |                                   |   |   |   |           |   |  |
| 485                                                                                                                                                                                               | 13-ZSL-1172C  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-18 | N/A                                                                                                | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A         | - |  |
| 486                                                                                                                                                                                               | 13-ZSH-1172C  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-18 | N/A                                                                                                | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A         | - |  |
| 487                                                                                                                                                                                               | 41-PSV-3151C  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-18 | 2"-HM-41-3045C-BC01-3N                                                                             | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |
| 488                                                                                                                                                                                               | 41-PSV-3151D  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-18 | 2"-HM-41-3046C-BC01-3N                                                                             | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |
| 489                                                                                                                                                                                               | 13-PIT-0450C  | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0202-18 | 3"-PV-13-7625C-FC01-1N                                                                             | PSD | AI  | 385 | 250 | 350   | 5-27  | CSC-4 & MPC - 10 | 1/2"NPTF                    | SS316                             | * | * | - | A         | - |  |
| 490                                                                                                                                                                                               | 13-PI-0449C   | PRESSURE INDICATOR                       | 17039-EK-P-DW-0202-18 | 3"-PV-13-7625C-FC01-1N                                                                             | N/A | N/A | 385 | 250 | 350   | 5-27  | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A         | - |  |
| 491                                                                                                                                                                                               | 13-TW-0451C   | THERMOWELL                               | 17039-EK-P-DW-0202-18 | 3"-PV-13-7625C-FC01-1N                                                                             | N/A | N/A | 385 | 250 | 350   | 5-27  | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A         | - |  |
| 492                                                                                                                                                                                               | 13-TI-0451C   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-18 | 3"-PV-13-7625C-FC01-1N                                                                             | N/A | N/A | 385 | 250 | 350   | 5-27  | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A         | - |  |
| 493                                                                                                                                                                                               | 13-PDIT-7626C | DIFFERENCIAL PRESSURE TRANSMITTER        | 17039-EK-P-DW-0202-18 | ACROSE EK-HBG-1630                                                                                 | DCS | AI  | 385 | 250 | 350   | 27-50 | CSC-4 & MPC - 10 | 1/2"NPT                     | SS316                             | * | * | - | A         | - |  |
| 494                                                                                                                                                                                               | 41-PT-3035C   | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0202-18 | 2"-HM-41-3049C-BC01-3N                                                                             | DCS | AI  | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A         | - |  |
| 495                                                                                                                                                                                               | 41-PIT-3033C  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-18 | 2"-HM-41-3043C-BC01-3N                                                                             | PSD | AI  | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1/2"NPTF                    | SS316                             | * | * | - | A         | - |  |
| 496                                                                                                                                                                                               | 41-TW-3034C   | THERMOWELL                               | 17039-EK-P-DW-0202-18 | 2"-HM-41-3043C-BC01-3N                                                                             | N/A | N/A | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 2"/300#RF                   | SS316                             | * | * | - | A         | - |  |
| 497                                                                                                                                                                                               | 41-TI-3034C   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-18 | 2"-HM-41-3043C-BC01-3N                                                                             | N/A | N/A | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A         | - |  |
| 498                                                                                                                                                                                               | 13-PSV-7720G  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-18 | 2"-PV-20-7627C-FC01-3N                                                                             | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |
| 499                                                                                                                                                                                               | 13-PSV-7720H  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-18 | 2"-PV-20-7628C-FC01-3N                                                                             | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |
| 500                                                                                                                                                                                               | 13-BDV-7727C  | BLOWDOWN VALVE                           | 17039-EK-P-DW-0202-18 | 2"-PV-20-7629C-FC01-3N                                                                             | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |
| 501                                                                                                                                                                                               | 13-BXV-7727C  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-18 | N/A                                                                                                | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | SS316                             | * | * | - | A         | - |  |
| 502                                                                                                                                                                                               | 13-ZSL-7727C  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-18 | N/A                                                                                                | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A         | - |  |
| 503                                                                                                                                                                                               | 13-ZSH-7727C  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-18 | N/A                                                                                                | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A         | - |  |
| 504                                                                                                                                                                                               | 13-RO-7630C   | RESTRICTION ORIFICE                      | 17039-EK-P-DW-0202-18 | 2"-PV-20-7629C-FC01-3N                                                                             | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A         | - |  |
| 505                                                                                                                                                                                               | 13-TV-7629C   | TEMPERATURE CONTROL VALVE                | 17039-EK-P-DW-0202-18 | 2"-HM-41-3043C-BC01-1N                                                                             | N/A | N/A | 12  | 250 | 4.5   | 100   | CSC-4 & MPC - 10 | 1"/300#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |
| 506                                                                                                                                                                                               | 13TY-7629C    | POSITIONER                               | 17039-EK-P-DW-0202-18 | N/A                                                                                                | DCS | AO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A         | - |  |
| 507                                                                                                                                                                                               | 41-SDV-3130C  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-18 | 2"-HM-41-3034C-BC01-1N                                                                             | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2"/300#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |
| 508                                                                                                                                                                                               | 41-SXV-3130C  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-18 | N/A                                                                                                | PSD | DO  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A         | - |  |
| 509                                                                                                                                                                                               | 41-ZSL-3130C  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-18 | N/A                                                                                                | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A         | - |  |
| 510                                                                                                                                                                                               | 41-ZSH-3130C  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-18 | N/A                                                                                                | DCS | DI  | N/A | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A         | - |  |
| 511                                                                                                                                                                                               | 41-PI-3031C   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-18 | 2"-HM-41-3034C-BC01-1N                                                                             | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2"/300#RF                   | SS316                             | * | * | - | A         | - |  |
| 512                                                                                                                                                                                               | 41-TW-3032C   | THERMOWELL                               | 17039-EK-P-DW-0202-18 | 2"-HM-41-3034C-BC01-1N                                                                             | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1 1/2"/300#RF               | SS316                             | * | * | - | A         | - |  |
| 513                                                                                                                                                                                               | 41-TI-3032C   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-18 | 2"-HM-41-3034C-BC01-1N                                                                             | N/A | N/A | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A         | - |  |
| 514                                                                                                                                                                                               | 41-PDIT-3036C | DIFFERENCIAL PRESSURE TRANSMITTER        | 17039-EK-P-DW-0202-18 | ACROSE EK-HBG-1630                                                                                 | DCS | AI  | 12  | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1/2"NPT                     | SS316                             | * | * | - | A         | - |  |
| 515                                                                                                                                                                                               | 13-TW-7627C   | THERMOWELL                               | 17039-EK-P-DW-0202-18 | 3"-PV-13-7626C-FC01-1N                                                                             | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A         | - |  |
| 516                                                                                                                                                                                               | 13-TI-7627C   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-18 | 3"-PV-13-7626C-FC01-1N                                                                             | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A         | - |  |
| 517                                                                                                                                                                                               | 13-TW-7628C   | THERMOWELL                               | 17039-EK-P-DW-0202-18 | 3"-PV-13-7626C-FC01-1N                                                                             | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A         | - |  |
| 518                                                                                                                                                                                               | 13-TIT-7628C  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-18 | 3"-PV-13-7626C-FC01-1N                                                                             | PSD | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A         | - |  |
| 519                                                                                                                                                                                               | 13-PIT-7620C  | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0202-18 | 6"-PV-13-0220C-FC01-1N                                                                             | PSD | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A         | - |  |
| 520                                                                                                                                                                                               | 13-TW-7629C   | THERMOWELL                               | 17039-EK-P-DW-0202-18 | 6"-PV-13-0220C-FC01-1N                                                                             | N/A | N/A | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A         | - |  |
| 521                                                                                                                                                                                               | 13-TW-7629C   | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-18 | 6"-PV-13-0220B-FC01-1N                                                                             | DCS | AI  | 385 | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A         | - |  |
| 522                                                                                                                                                                                               | 20-PSV-7730A  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-18 | 3"-GL-85-8085-DC01-3N                                                                              | N/A | N/A | 12  | 250 | 5     | 20    |                  |                             |                                   |   |   |   |           |   |  |

|                                                                                                                                                                                                   |               |                                          |                                                                                                                                                            |                        |     |     |     |     |       |      |                  |                             |                                   |   |   |   |                                                             |   |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|-----|-----|-------|------|------------------|-----------------------------|-----------------------------------|---|---|---|-------------------------------------------------------------|---|--|--|
| <div><div></div><div></div></div> |               |                                          | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                        |     |     |     |     |       |      |                  |                             |                                   |   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |               |                                          |                                                                                                                                                            |                        |     |     |     |     |       |      |                  |                             |                                   |   |   |   |                                                             |   |  |  |
| 546                                                                                                                                                                                               | 13-PSV-7720A  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-19                                                                                                                                      | 2"-PV-20-7628D-FC01-3N | N/A | N/A | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 1 1/2"/2500#RTJ D 3"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 547                                                                                                                                                                                               | 13-BDV-7727D  | BLOWDOWN VALVE                           | 17039-EK-P-DW-0202-19                                                                                                                                      | 2"-PV-20-7629D-FC01-3N | N/A | N/A | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 548                                                                                                                                                                                               | 13-BXV-7727D  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | SS316                             | * | * | - | A                                                           | - |  |  |
| 549                                                                                                                                                                                               | 13-ZSL-7727D  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 550                                                                                                                                                                                               | 13-ZSH-7727D  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 551                                                                                                                                                                                               | 13-RO-7630D   | RESTRICTION ORIFICE                      | 17039-EK-P-DW-0202-19                                                                                                                                      | 2"-PV-20-7629D-FC01-3N | N/A | N/A | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A                                                           | - |  |  |
| 552                                                                                                                                                                                               | 13-TV-7629D   | TEMPERATURE CONTROL VALVE                | 17039-EK-P-DW-0202-19                                                                                                                                      | 2"-HM-41-3043D-BC01-1N | N/A | N/A | 12  | 250 | 4.5   | 100  | CSC-4 & MPC - 10 | 1"/300#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 553                                                                                                                                                                                               | 13TY-7629D    | POSITIONER                               | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | DCS | AO  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 554                                                                                                                                                                                               | 41-SDV-3130D  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 2"/300#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 555                                                                                                                                                                                               | 41-SXV-3130D  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 556                                                                                                                                                                                               | 41-ZSL-3130D  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 557                                                                                                                                                                                               | 41-ZSH-3130D  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 558                                                                                                                                                                                               | 41-PI-3031D   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-19                                                                                                                                      | 2"-HM-41-3034D-BC01-1N | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 2"/300#RF                   | SS316                             | * | * | - | A                                                           | - |  |  |
| 559                                                                                                                                                                                               | 41-TW-3032D   | THERMOWELL                               | 17039-EK-P-DW-0202-19                                                                                                                                      | 2"-HM-41-3034D-BC01-1N | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 1 1/2"/300#RF               | SS316                             | * | * | - | A                                                           | - |  |  |
| 560                                                                                                                                                                                               | 41-TI-3032D   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-19                                                                                                                                      | 2"-HM-41-3034D-BC01-1N | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A                                                           | - |  |  |
| 561                                                                                                                                                                                               | 41-PDIT-3036D | DIFFERENTIAL PRESSURE TRANSMITTER        | 17039-EK-P-DW-0202-19                                                                                                                                      | ACROSE EK-HBG-1610     | DCS | AI  | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 1/2"NPT                     | SS316                             | * | * | - | A                                                           | - |  |  |
| 562                                                                                                                                                                                               | 13-TW-7627D   | THERMOWELL                               | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-PV-13-7626D-GC01-1N | N/A | N/A | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 2"/3000#RTJ                 | SS316                             | * | * | - | A                                                           | - |  |  |
| 563                                                                                                                                                                                               | 13-TI-7627D   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-PV-13-7626D-GC01-1N | N/A | N/A | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A                                                           | - |  |  |
| 564                                                                                                                                                                                               | 13-TW-7628D   | THERMOWELL                               | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-PV-13-7626D-GC01-1N | N/A | N/A | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 2"/3000#RTJ                 | SS316                             | * | * | - | A                                                           | - |  |  |
| 565                                                                                                                                                                                               | 13-TIT-7628D  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-PV-13-7626D-GC01-1N | PSD | AI  | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A                                                           | - |  |  |
| 566                                                                                                                                                                                               | 13-PIT-7620D  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-19                                                                                                                                      | 6"-PV-13-0220D-FC01-1N | PSD | AI  | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A                                                           | - |  |  |
| 567                                                                                                                                                                                               | 13-TW-7629D   | THERMOWELL                               | 17039-EK-P-DW-0202-19                                                                                                                                      | 6"-PV-13-0220D-FC01-1N | N/A | N/A | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A                                                           | - |  |  |
| 568                                                                                                                                                                                               | 13-TIT-7629D  | TEMPERATURE TRANSMITTER                  | 17039-EK-P-DW-0202-19                                                                                                                                      | 6"-PV-13-0220D-FC01-1N | DCS | AI  | 385 | 250 | 349.5 | 116  | CSC-4 & MPC - 10 | 1/2"NPTM                    | SS316                             | * | * | - | A                                                           | - |  |  |
| 569                                                                                                                                                                                               | 20-PSV-7730A  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-GL-85-8089-DC01-3N  | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 11/2" 900#RTJ D 3"/300#RF   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 570                                                                                                                                                                                               | 20-PSV-7730B  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-GL-85-8090-DC01-3N  | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 11/2" 900#RTJ D 3"/300#RF   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 571                                                                                                                                                                                               | 20-PSV-7733A  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-PV-85-8030-BC01-3N  | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 2" E 3"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 572                                                                                                                                                                                               | 20-PSV-7733B  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-PV-85-8031-BC01-3N  | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 2" E 3"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 573                                                                                                                                                                                               | 85-SDV-8050   | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-19                                                                                                                                      | 3"-PV-13-7626D-GC01-1N | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 3"/2500#RTJF                | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 574                                                                                                                                                                                               | 85-SXV-8050   | SOLENOID VALVE                           | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | SS316                             | * | * | - | A                                                           | - |  |  |
| 575                                                                                                                                                                                               | 85-ZSL-8050   | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 576                                                                                                                                                                                               | 85-ZSH-8050   | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-19                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 577                                                                                                                                                                                               | 13-SDV-1172E  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0202-20                                                                                                                                      | N/A                    | N/A | N/A | 385 | 250 | 350   | 5-27 | CSC-4 & MPC - 10 | 3"/2500#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 578                                                                                                                                                                                               | 13-SXY-1172E  | SOLENOID VALVE                           | 17039-EK-P-DW-0202-20                                                                                                                                      | N/A                    | PSD | DO  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | SS316                             | * | * | - | A                                                           | - |  |  |
| 579                                                                                                                                                                                               | 13-ZSL-1172E  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0202-20                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 580                                                                                                                                                                                               | 13-ZSH-1172E  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0202-20                                                                                                                                      | N/A                    | DCS | DI  | N/A | N/A | N/A   | N/A  | CSC-4 & MPC - 10 | N/A                         | N/A                               | * | * | - | A                                                           | - |  |  |
| 581                                                                                                                                                                                               | 41-PSV-3151K  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-20                                                                                                                                      | 2"-HM-41-3045E-BC01-3N | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 1" D 2"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 582                                                                                                                                                                                               | 41-PSV-3151L  | PRESSURE SAFETY VALVE                    | 17039-EK-P-DW-0202-20                                                                                                                                      | 2"-HM-41-3046E-BC01-3N | N/A | N/A | 12  | 250 | 5     | 200  | CSC-4 & MPC - 10 | 1" D 2"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |  |
| 583                                                                                                                                                                                               | 13-PIT-0450E  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-20                                                                                                                                      | 3"-PV-13-7625E-FC01-1N | PSD | AI  | 385 | 250 | 350   | 5-27 | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A                                                           | - |  |  |
| 584                                                                                                                                                                                               | 13-PI-0449E   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0202-20                                                                                                                                      | 3"-PV-13-7625E-FC01-1N | N/A | N/A | 385 | 250 | 350   | 5-27 | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A                                                           | - |  |  |
| 585                                                                                                                                                                                               | 13-TW-0451E   | THERMOWELL                               | 17039-EK-P-DW-0202-20                                                                                                                                      | 3"-PV-13-7625E-FC01-1N | N/A | N/A | 385 | 250 | 350   | 5-27 | CSC-4 & MPC - 10 | 2"/2500#RTJ                 | SS316                             | * | * | - | A                                                           | - |  |  |
| 586                                                                                                                                                                                               | 13-TI-0451E   | TEMPERATURE INDICATOR                    | 17039-EK-P-DW-0202-20                                                                                                                                      | 3"-PV-13-7625E-FC01-1N | N/A | N/A | 385 | 250 | 350   | 5-27 | CSC-4 & MPC - 10 |                             |                                   |   |   |   |                                                             |   |  |  |

|                                                                                                                                                                                                                                                                                                                                                     |               |                                                       |                            |                        |     |     |       |     |       |       |                  |                           |                                |   |   |   |           |           |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------|----------------------------|------------------------|-----|-----|-------|-----|-------|-------|------------------|---------------------------|--------------------------------|---|---|---|-----------|-----------|--|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an undertaking of India Corporation</small></div></div></div> |               |                                                       | CLIENT : OIL INDIA LIMITED |                        |     |     |       |     |       |       |                  |                           |                                |   |   |   | DOC NO. : |           |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJJAN, ASSAM                                                                                                                                                                                                                                                  |               |                                                       |                            |                        |     |     |       |     |       |       |                  |                           |                                |   |   |   |           | REV NO. : |  |  |
|                                                                                                                                                                                                                                                                                                                                                     |               |                                                       |                            |                        |     |     |       |     |       |       |                  |                           |                                |   |   |   |           | DATE :    |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |               |                                                       |                            |                        |     |     |       |     |       |       |                  |                           |                                |   |   |   |           |           |  |  |
| 607                                                                                                                                                                                                                                                                                                                                                 | 41-TI-3032E   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0202-20      | 2"-HM-41-3034E-BC01-1N | N/A | N/A | 12    | 250 | 5     | 200   | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                          | * | * | - | A         | -         |  |  |
| 608                                                                                                                                                                                                                                                                                                                                                 | 41-PDIT-3036E | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0202-20      | ACROSE EK-HBG-1650     | DCS | AI  | 12    | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2"/300#RF                 | SS316                          | * | * | - | A         | -         |  |  |
| 609                                                                                                                                                                                                                                                                                                                                                 | 13-TW-7627E   | THERMOWELL                                            | 17039-EK-P-DW-0202-20      | 3"-PV-13-7626E-FC01-1N | N/A | N/A | 385   | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                          | * | * | - | A         | -         |  |  |
| 610                                                                                                                                                                                                                                                                                                                                                 | 13-TI-7627E   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0202-20      | 3"-PV-13-7626E-FC01-1N | N/A | N/A | 385   | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                          | * | * | - | A         | -         |  |  |
| 611                                                                                                                                                                                                                                                                                                                                                 | 13-TW-7628E   | THERMOWELL                                            | 17039-EK-P-DW-0202-20      | 3"-PV-13-7626E-FC01-1N | N/A | N/A | 385   | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                          | * | * | - | A         | -         |  |  |
| 612                                                                                                                                                                                                                                                                                                                                                 | 13-TIT-7628E  | TEMPERATURE TRANSMITTER                               | 17039-EK-P-DW-0202-20      | 3"-PV-13-7626E-FC01-1N | PSD | AI  | 385   | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                          | * | * | - | A         | -         |  |  |
| 613                                                                                                                                                                                                                                                                                                                                                 | 13-PIT-7620E  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL              | 17039-EK-P-DW-0202-20      | 6"-PV-13-0220E-FC01-1N | PSD | AI  | 385   | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                          | * | * | - | A         | -         |  |  |
| 614                                                                                                                                                                                                                                                                                                                                                 | 13-TW-7629E   | THERMOWELL                                            | 17039-EK-P-DW-0202-20      | 6"-PV-13-0220E-FC01-1N | N/A | N/A | 385   | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 2"/2500#RTJ               | SS316                          | * | * | - | A         | -         |  |  |
| 615                                                                                                                                                                                                                                                                                                                                                 | 13-TW-7629E   | TEMPERATURE TRANSMITTER                               | 17039-EK-P-DW-0202-20      | 6"-PV-13-0220E-FC01-1N | DCS | AI  | 385   | 250 | 349.5 | 116   | CSC-4 & MPC - 10 | 1/2"NPTM                  | SS316                          | * | * | - | A         | -         |  |  |
| 616                                                                                                                                                                                                                                                                                                                                                 | 20-PSV-7730A  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0202-20      | 3"-GL-85-8093-DC01-3N  | N/A | N/A | 12    | 250 | 5     | 200   | CSC-4 & MPC - 10 | 11/2" 900#RTJ D 3"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 617                                                                                                                                                                                                                                                                                                                                                 | 20-PSV-7730B  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0202-20      | 3"-GL-85-8094-DC01-3N  | N/A | N/A | 12    | 250 | 5     | 200   | CSC-4 & MPC - 10 | 11/2" 900#RTJ D 3"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 618                                                                                                                                                                                                                                                                                                                                                 | 20-PSV-7733A  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0202-20      | 3"-PV-85-8036-BC01-3N  | N/A | N/A | 12    | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2" E 3"/300#RF            | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 619                                                                                                                                                                                                                                                                                                                                                 | 20-PSV-7733B  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0202-20      | 3"-PV-85-8037-BC01-3N  | N/A | N/A | 12    | 250 | 5     | 200   | CSC-4 & MPC - 10 | 2" E 3"/300#RF            | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 620                                                                                                                                                                                                                                                                                                                                                 | 85-SDV-8056   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0202-20      | 3"-PV-13-7626E-FC01-1N | N/A | N/A | 12    | 250 | 5     | 200   | CSC-4 & MPC - 10 | 3"/2500#RTJF              | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 621                                                                                                                                                                                                                                                                                                                                                 | 85-SXV-8056   | SOLENOID VALVE                                        | 17039-EK-P-DW-0202-20      | N/A                    | PSD | DO  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | SS316                          | * | * | - | A         | -         |  |  |
| 622                                                                                                                                                                                                                                                                                                                                                 | 85-ZSL-8056   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0202-20      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 623                                                                                                                                                                                                                                                                                                                                                 | 85-ZSH-8056   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0202-20      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 624                                                                                                                                                                                                                                                                                                                                                 | 20-SDV-3036   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0202-21      | 10"-PV-20-0201-FC01-1N | N/A | N/A | 385   | 90  | 24.7  | 56    | CSC-4 & MPC - 10 | 10"/2500#RTJ              | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 625                                                                                                                                                                                                                                                                                                                                                 | 20-SXV-3036   | SOLENOID VALVE                                        | 17039-EK-P-DW-0202-21      | N/A                    | PSD | DO  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 626                                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-3036   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0202-21      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 627                                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-3036   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0202-21      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 628                                                                                                                                                                                                                                                                                                                                                 | 20-FT-1068    | DP TYPE FLOW TRANSMITTER                              | 17039-EK-P-DW-0202-21      | 10"-PV-20-0201-FC01-1N | DCS | AI  | 385   | 90  | 24.7  | 56    | CSC-4 & MPC - 10 | 1/2"NPTF                  | SS316                          | * | * | - | A         | -         |  |  |
| 629                                                                                                                                                                                                                                                                                                                                                 | 20-FE-1068    | FLOW ELEMENT (ORIFICE)                                | 17039-EK-P-DW-0202-21      | 10"-PV-20-0201-FC01-1N | N/A | N/A | 385   | 90  | 24.7  | 56    | CSC-4 & MPC - 10 | 10"/2500#RTJ              | SS316                          | * | * | - | A         | -         |  |  |
| 630                                                                                                                                                                                                                                                                                                                                                 | 20-SDV-0170   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0202-21      | 10"-PV-20-0201-FC01-1N | N/A | N/A | 385   | 90  | 24.7  | 56    | CSC-4 & MPC - 10 | 8"/300#RF                 | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 631                                                                                                                                                                                                                                                                                                                                                 | 20-SXV-0170   | SOLENOID VALVE                                        | 17039-EK-P-DW-0202-21      | N/A                    | PSD | DO  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 632                                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-0170   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0202-21      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 633                                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-0170   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0202-21      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 634                                                                                                                                                                                                                                                                                                                                                 | 20-FV-1115A   | FLOW CONTROL VALVE                                    | 17039-EK-P-DW-0202-21      | 8"-PV-20-0804-FC01-1N  | N/A | N/A | 385   | 90  | 24.7  | 56    | CSC-4 & MPC - 10 | 6"/2500#RTJ               | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 635                                                                                                                                                                                                                                                                                                                                                 | 20-FY-1115A   | POSITIONER                                            | 17039-EK-P-DW-0202-21      | N/A                    | DCS | AO  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 636                                                                                                                                                                                                                                                                                                                                                 | 20-PSV-0969A  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0202-21      | 6"-PV-20-0806-BC01     | N/A | N/A | 28/FV | 90  | 24    | 53-56 | CSC-4 & MPC - 10 | 4"/300#RF P 6"/150#RF     | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 637                                                                                                                                                                                                                                                                                                                                                 | 20-PSV-0969B  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0202-21      | 6"-PV-20-0807-BC01-1N  | N/A | N/A | 28/FV | 90  | 24    | 53-56 | CSC-4 & MPC - 10 | 4"/300#RF P 6"/150#RF     | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 638                                                                                                                                                                                                                                                                                                                                                 | 20-BDV-1061   | BLOWDOWN VALVE                                        | 17039-EK-P-DW-0202-21      | 2"-PV-20-0902-BC01     | N/A | N/A | 28/FV | 90  | 24    | 53-56 | CSC-4 & MPC - 10 | 2"/300#RF                 | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 639                                                                                                                                                                                                                                                                                                                                                 | 20-BXV-1061   | SOLENOID VALVE                                        | 17039-EK-P-DW-0202-21      | N/A                    | PSD | DO  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | SS316                          | * | * | - | A         | -         |  |  |
| 640                                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-1061   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0202-21      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 641                                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-1061   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0202-21      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 642                                                                                                                                                                                                                                                                                                                                                 | 20-RO-1063    | RESTRICTION ORIFICE                                   | 17039-EK-P-DW-0202-21      | 2"-PV-20-0902-BC01     | N/A | N/A | 28/FV | 90  | 24    | 53-56 | CSC-4 & MPC - 10 | 2"/300#RF                 | SS316                          | * | * | - | A         | -         |  |  |
| 643                                                                                                                                                                                                                                                                                                                                                 | 20-PV-1067    | PRESSURE CONTROL VALVE                                | 17039-EK-P-DW-0202-21      | 8"-PV-20-0397-BC01     | N/A | N/A | 28/FV | 90  | 24    | 53-56 | CSC-4 & MPC - 10 | 6"/300#RF                 | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 644                                                                                                                                                                                                                                                                                                                                                 | 20-PY-1067    | POSITIONER                                            | 17039-EK-P-DW-0202-21      | N/A                    | DCS | AO  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 645                                                                                                                                                                                                                                                                                                                                                 | 20-SDV-0968   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0202-21      | 10"-PV-20-0805-BC01-1N | N/A | N/A | 28/FV | 90  | 24    | 53-56 | CSC-4 & MPC - 10 | 10"/300#RF                | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | -         |  |  |
| 646                                                                                                                                                                                                                                                                                                                                                 | 20-SXV-0968   | SOLENOID VALVE                                        | 17039-EK-P-DW-0202-21      | N/A                    | PSD | DO  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | SS316                          | * | * | - | A         | -         |  |  |
| 647                                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-0968   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0202-21      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 648                                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-0968   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0202-21      | N/A                    | DCS | DI  | N/A   | N/A | N/A   | N/A   | CSC-4 & MPC - 10 | N/A                       | N/A                            | * | * | - | A         | -         |  |  |
| 649                                                                                                                                                                                                                                                                                                                                                 | 20-TW-0977    | THERMOWELL                                            | 17039-EK-P-DW-0202-21      |                        |     |     |       |     |       |       |                  |                           |                                |   |   |   |           |           |  |  |

|                                                                                                                                                                                                                                                                                                                                                     |               |                                                     |                            |                       |     |     |       |     |      |       |                  |                       |                                   |   |           |   |   |   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|----------------------------|-----------------------|-----|-----|-------|-----|------|-------|------------------|-----------------------|-----------------------------------|---|-----------|---|---|---|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an undertaking of India Corporation</small></div></div></div> |               |                                                     | CLIENT : OIL INDIA LIMITED |                       |     |     |       |     |      |       |                  |                       |                                   |   | DOC NO. : |   |   |   |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                   |               |                                                     |                            |                       |     |     |       |     |      |       |                  | REV NO. :             |                                   |   |           |   |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                     |               |                                                     |                            |                       |     |     |       |     |      |       |                  | DATE :                |                                   |   |           |   |   |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |               |                                                     |                            |                       |     |     |       |     |      |       |                  |                       |                                   |   |           |   |   |   |  |
| 668                                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-0171   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-21      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 669                                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-0171   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-21      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 670                                                                                                                                                                                                                                                                                                                                                 | 20-SDV-0172   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-21      | 8"-PV-20-0880-BC01-1N | N/A | N/A | 385   | 90  | 24.7 | 56    | CSC-4 & MPC - 10 | 8"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 671                                                                                                                                                                                                                                                                                                                                                 | 20-SXV-0172   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-21      | N/A                   | PSD | DO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 672                                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-0172   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-21      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 673                                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-0172   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-21      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 674                                                                                                                                                                                                                                                                                                                                                 | 20-PSV-1110A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0202-22      | 6"-PV-20-0900-BC01    | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 4"/300#RF P 6"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 675                                                                                                                                                                                                                                                                                                                                                 | 20-PSV-1110B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0202-22      | 6"-PV-20-0900-BC01-1N | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 4"/300#RF P 6"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 676                                                                                                                                                                                                                                                                                                                                                 | 20-BDV-1061A  | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-22      | N/A                   | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 2"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 677                                                                                                                                                                                                                                                                                                                                                 | 20-BXV-1061A  | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-22      | N/A                   | PSD | DO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | *         | - | A | - |  |
| 678                                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-1061A  | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-22      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 679                                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-1061A  | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-22      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 680                                                                                                                                                                                                                                                                                                                                                 | 20-RO-1061A   | RESTRICTION ORIFICE                                 | 17039-EK-P-DW-0202-22      | 2"-PV-20-0903-BC01-1N | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | *         | - | A | - |  |
| 681                                                                                                                                                                                                                                                                                                                                                 | 20-PV-8059    | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0202-22      | 8"-PV-20-0398-BC01    | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 6"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 682                                                                                                                                                                                                                                                                                                                                                 | 20-PY-8059    | POSITIONER                                          | 17039-EK-P-DW-0202-22      | N/A                   | DCS | AO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 683                                                                                                                                                                                                                                                                                                                                                 | 20-TW-1106    | THERMOWELL                                          | 17039-EK-P-DW-0202-22      | EK-MBD-1390B          | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | *         | - | A | - |  |
| 684                                                                                                                                                                                                                                                                                                                                                 | 20-TI-1106    | TEMPERATURE INDICATOR                               | 17039-EK-P-DW-0202-22      | EK-MBD-1390B          | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 1/2"NPTM              | SS316                             | * | *         | - | A | - |  |
| 685                                                                                                                                                                                                                                                                                                                                                 | 20-LT-1107    | DP TYPE LEVEL TRANSMITTER                           | 17039-EK-P-DW-0202-22      | ACROSS EK-MBD-1390B   | PSD | AI  | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 1/2"NPT               | SS316                             | * | *         | - | A | - |  |
| 686                                                                                                                                                                                                                                                                                                                                                 | 20-PI-1119    | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0202-22      | EK-MBD-1390B          | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 1/2"NPTM              | SS316                             | * | *         | - | A | - |  |
| 687                                                                                                                                                                                                                                                                                                                                                 | 20-PT-1115    | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0202-22      | EK-MBD-1390B          | DCS | AI  | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 1/2"NPTF              | SS316                             | * | *         | - | A | - |  |
| 688                                                                                                                                                                                                                                                                                                                                                 | 20-PT-1104    | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0202-22      | EK-MBD-1390B          | PSD | AI  | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 1/2"NPTF              | SS316                             | * | *         | - | A | - |  |
| 689                                                                                                                                                                                                                                                                                                                                                 | 20-LG/LT-1105 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0202-22      | ACROSS EK-MBD-1390B   | DCS | AI  | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | *         | - | A | - |  |
| 690                                                                                                                                                                                                                                                                                                                                                 | 20-FT-1103    | DP TYPE FLOW TRANSMITTER                            | 17039-EK-P-DW-0202-22      | 2"-PL-20-0897-BC01-1N | DCS | AI  | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 1/2"NPTF              | SS316                             | * | *         | - | A | - |  |
| 691                                                                                                                                                                                                                                                                                                                                                 | 20-FE-1103    | FLOW ELEMENT (ORIFICE)                              | 17039-EK-P-DW-0202-22      | 2"-PL-20-0897-BC01-1N | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | *         | - | A | - |  |
| 692                                                                                                                                                                                                                                                                                                                                                 | 20-LV-1105    | LEVEL CONTROL VALVE                                 | 17039-EK-P-DW-0202-22      | 2"-PL-20-0897-BC01-1N | N/A | N/A | 28/FV | 90  | 24   | 53-56 | CSC-4 & MPC - 10 | 1"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 693                                                                                                                                                                                                                                                                                                                                                 | 20-LY-1105    | POSITIONER                                          | 17039-EK-P-DW-0202-22      | N/A                   | DCS | AO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 694                                                                                                                                                                                                                                                                                                                                                 | 85-ESDV-8000  | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-23      | 4"-GL-85-8157-DC01-1N | N/A | N/A | 90/FV | 105 | 80   | 73    | CSC-4 & MPC - 10 | 4"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 695                                                                                                                                                                                                                                                                                                                                                 | 85-SDY-8000   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-23      | N/A                   | PSD | DO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | *         | - | A | - |  |
| 696                                                                                                                                                                                                                                                                                                                                                 | 85-ESDY-8000  | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-23      | N/A                   | ESD | DO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | *         | - | A | - |  |
| 697                                                                                                                                                                                                                                                                                                                                                 | 85-ZSL-8000   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 698                                                                                                                                                                                                                                                                                                                                                 | 85-ZSH-8000   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 699                                                                                                                                                                                                                                                                                                                                                 | 85-ZSK-8000   | POSITION SWITCH PARTIAL STROKE TEST                 | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 700                                                                                                                                                                                                                                                                                                                                                 | 44-BDV-8802   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-23      | 3"-GL-85-8175-DC01-1N | N/A | N/A | 90/FV | 105 | 80   | 73    | CSC-4 & MPC - 10 | 3"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 701                                                                                                                                                                                                                                                                                                                                                 | 44-SDY-8802   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-23      | N/A                   | PSD | DO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | *         | - | A | - |  |
| 702                                                                                                                                                                                                                                                                                                                                                 | 44-ZSL-8802   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 703                                                                                                                                                                                                                                                                                                                                                 | 44-ZSH-8802   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 704                                                                                                                                                                                                                                                                                                                                                 | 85-BDV-8083   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-23      | 4"-GL-85-8073-DC01    | N/A | N/A | 90/FV | 105 | 80   | 73    | CSC-4 & MPC - 10 | 3"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 705                                                                                                                                                                                                                                                                                                                                                 | 85-SDY-8083   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-23      | N/A                   | PSD | DO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | *         | - | A | - |  |
| 706                                                                                                                                                                                                                                                                                                                                                 | 85-ZSL-8083   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 707                                                                                                                                                                                                                                                                                                                                                 | 85-ZSH-8083   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 708                                                                                                                                                                                                                                                                                                                                                 | 85-SDV-8082   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-23      | 4"-GL-85-8073-DC01    | N/A | N/A | 90/FV | 105 | 80   | 73    | CSC-4 & MPC - 10 | 4"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 709                                                                                                                                                                                                                                                                                                                                                 | 85-SDY-8082   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-23      | N/A                   | PSD | DO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | *         | - | A | - |  |
| 710                                                                                                                                                                                                                                                                                                                                                 | 85-ZSL-8082   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 711                                                                                                                                                                                                                                                                                                                                                 | 85-ZSH-8082   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |
| 712                                                                                                                                                                                                                                                                                                                                                 | 85-SDV-8081   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0202-23      | 4"-GL-85-8073-DC01    | N/A | N/A | 90/FV | 105 | 80   | 73    | CSC-4 & MPC - 10 | 4"/900#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | *         | - | A | - |  |
| 713                                                                                                                                                                                                                                                                                                                                                 | 85-SDY-8081   | SOLENOID VALVE                                      | 17039-EK-P-DW-0202-23      | N/A                   | PSD | DO  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | *         | - | A | - |  |
| 714                                                                                                                                                                                                                                                                                                                                                 | 85-ZSL-8081   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0202-23      | N/A                   | DCS | DI  | N/A   | N/A | N/A  | N/A   | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | *         | - | A | - |  |

|                                                                                                                                                                                                                                                  |              |                                                       |                            |                       |     |     |        |     |       |         |                  |                        |                                   |   |   |           |           |   |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------|----------------------------|-----------------------|-----|-----|--------|-----|-------|---------|------------------|------------------------|-----------------------------------|---|---|-----------|-----------|---|--|--|
| <div>KAVIN™</div> <div><div>ऑयल इंडिया लिमिटेड<br/>Oil India Limited</div></div> |              |                                                       | CLIENT : OIL INDIA LIMITED |                       |     |     |        |     |       |         |                  |                        |                                   |   |   | DOC NO. : |           |   |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                |              |                                                       |                            |                       |     |     |        |     |       |         |                  |                        |                                   |   |   |           | REV NO. : |   |  |  |
|                                                                                                                                                                                                                                                  |              |                                                       |                            |                       |     |     |        |     |       |         |                  |                        |                                   |   |   |           | DATE :    |   |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                 |              |                                                       |                            |                       |     |     |        |     |       |         |                  |                        |                                   |   |   |           |           |   |  |  |
| 729                                                                                                                                                                                                                                              | 85-LY-8009   | POSITIONER                                            | 17039-EK-P-DW-0202-23      | N/A                   | DCS | AO  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 730                                                                                                                                                                                                                                              | 85-PT-8006   | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0202-23      | EK-MBD-1380           | PSD | AI  | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 1/2"NPTF               | SS316                             | * | * | -         | A         | - |  |  |
| 731                                                                                                                                                                                                                                              | 85-PI-8005   | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0202-23      | EK-MBD-1380           | N/A | N/A | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 1/2"NPTM               | SS316                             | * | * | -         | A         | - |  |  |
| 732                                                                                                                                                                                                                                              | 85-PT-8003   | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0202-23      | 4"GL--85-8004-DC01    | DCS | AI  | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 1/2"NPTF               | SS316                             | * | * | -         | A         | - |  |  |
| 733                                                                                                                                                                                                                                              | 85-PV-8003   | PRESSURE CONTROL VALVE                                | 17039-EK-P-DW-0202-23      | 3"-GL--20-0356-BC01   | N/A | N/A | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 2"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 734                                                                                                                                                                                                                                              | 85-PY-8003   | POSITIONER                                            | 17039-EK-P-DW-0202-23      | N/A                   | DCS | AO  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 735                                                                                                                                                                                                                                              | 85-PT-8004   | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0202-23      | 4"GL--85-8069-DC01-1N | DCS | AI  | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 1/2"NPTF               | SS316                             | * | * | -         | A         | - |  |  |
| 736                                                                                                                                                                                                                                              | 85-PV-8004   | PRESSURE CONTROL VALVE                                | 17039-EK-P-DW-0202-23      | 4"GL--85-8069-DC01-1N | N/A | N/A | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 1"/900#RTJ             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 737                                                                                                                                                                                                                                              | 85-PY-8004   | POSITIONER                                            | 17039-EK-P-DW-0202-23      | N/A                   | DCS | AO  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 738                                                                                                                                                                                                                                              | 42-FI-3901   | FLOW INDICATOR                                        | 17039-EK-P-DW-0202-23      | 1/2"-ML-42-4101-AC01  | N/A | N/A | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 1/2"NPT                | SS316                             | * | * | -         | A         | - |  |  |
| 739                                                                                                                                                                                                                                              | 42-FI-3901   | FLOW INDICATOR                                        | 17039-EK-P-DW-0202-23      | 1/2"-ML-42-4101-AC01  | N/A | N/A | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 1/2"NPT                | SS316                             | * | * | -         | A         | - |  |  |
| 740                                                                                                                                                                                                                                              | 85-RO-8501   | RESTRICTION ORIFICE                                   | 17039-EK-P-DW-0202-23      | 3"-GL-85-8175-DC01-1N | N/A | N/A | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 3"/900#RF              | SS316                             |   |   |           |           |   |  |  |
| 741                                                                                                                                                                                                                                              | 85-TW-8041   | THERMOWELL                                            | 17039-EK-P-DW-0202-23      | EK-MBD-1380           | N/A | N/A | 28/FV  | 90  | 24    | 53-56   | CSC-4 & MPC - 10 | 2"/300#RF              | SS316                             | * | * | -         | A         | - |  |  |
| 742                                                                                                                                                                                                                                              | 85-TI-8041   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0202-23      | EK-MBD-1380           | N/A | N/A | 28/FV  | 90  | 24    | 53-56   | CSC-4 & MPC - 10 | 1/2"NPTM               | SS316                             | * | * | -         | A         | - |  |  |
| 743                                                                                                                                                                                                                                              | 42-FI-3801   | FLOW INDICATOR                                        | 17039-EK-P-DW-0203-01      | 1/2"-CO-42-3817-GT20  | N/A | N/A | 110    | 80  | 95    | AMBIENT | CSC-4 & MPC - 10 | 1/2"NPT                | SS316                             | * | * | -         | A         | - |  |  |
| 744                                                                                                                                                                                                                                              | 85-ESDV-1000 | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-01      | 8"-PT-13-0192-FC01    | N/A | N/A | 90/FV  | 105 | 80    | 73      | CSC-4 & MPC - 10 | 8"/2500#RTJ            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 745                                                                                                                                                                                                                                              | 85-SDY-1000  | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-01      | N/A                   | PSD | DO  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | SS316                             | * | * | -         | A         | - |  |  |
| 746                                                                                                                                                                                                                                              | 85-ESDY-1000 | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-01      | N/A                   | ESD | DO  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | SS316                             | * | * | -         | A         | - |  |  |
| 747                                                                                                                                                                                                                                              | 85-ZSL-1000  | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-01      | N/A                   | DCS | DI  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 748                                                                                                                                                                                                                                              | 85-ZSH-1000  | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-01      | N/A                   | DCS | DI  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 749                                                                                                                                                                                                                                              | 85-ZSK-1000  | POSITION SWITCH PARTIAL STROKE TEST                   | 17039-EK-P-DW-0203-01      | N/A                   | DCS | DI  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 750                                                                                                                                                                                                                                              | 20-PDIT-0436 | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0203-01      | ACROSE EK-HBG-1470    | DCS | AI  | 100/FV | 250 | 10-90 | 27-50   | CSC-4 & MPC - 10 | 2"/2500#RTJ            | SS316                             | * | * | -         | A         | - |  |  |
| 751                                                                                                                                                                                                                                              | 20-PSV-1034A | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-01      | 4"-PT-20-0351-DC01    | N/A | N/A | 100/FV | 250 | 10-90 | 27-50   | CSC-4 & MPC - 10 | 3"/900#RTJ K 4"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 752                                                                                                                                                                                                                                              | 20-PSV-1034B | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-01      | 4"-PT-20-0352-DC01    | N/A | N/A | 100/FV | 250 | 10-90 | 27-50   | CSC-4 & MPC - 10 | 3"/900#RTJ K 4"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 753                                                                                                                                                                                                                                              | 20-BDV-1033  | BLOWDOWN VALVE                                        | 17039-EK-P-DW-0203-01      | 2"-PV-20-0353-DC01    | N/A | N/A | 100/FV | 250 | 10-90 | 27-50   | CSC-4 & MPC - 10 | 2"/900#RTJ             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 754                                                                                                                                                                                                                                              | 20-BXV-1033  | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-01      | N/A                   | PSD | DO  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 755                                                                                                                                                                                                                                              | 20-ZSL-1033  | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-01      | N/A                   | DCS | DI  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 756                                                                                                                                                                                                                                              | 20-ZSH-1033  | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-01      | N/A                   | DCS | DI  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 757                                                                                                                                                                                                                                              | 20-RO-1409   | RESTRICTION ORIFICE                                   | 17039-EK-P-DW-0203-01      | 2"-PV-20-0353-DC01    | N/A | N/A | 100/FV | 250 | 10-90 | 27-50   | CSC-4 & MPC - 10 | 2"/900#RTJ             | SS316                             | * | * | -         | A         | - |  |  |
| 758                                                                                                                                                                                                                                              | 20-TW-0401   | THERMOWELL                                            | 17039-EK-P-DW-0203-01      | 10"-PT-13-0192-FC01   | N/A | N/A | 100/FV | 250 | 10-90 | 27-50   | CSC-4 & MPC - 10 | 1 1/2"/2500#RTJ        | SS316                             | * | * | -         | A         | - |  |  |
| 759                                                                                                                                                                                                                                              | 20-TI-0401   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-01      | 10"-PT-13-0192-FC01   | N/A | N/A | 100/FV | 250 | 10-90 | 27-50   | CSC-4 & MPC - 10 | 1/2"NPTM               | SS316                             | * | * | -         | A         | - |  |  |
| 760                                                                                                                                                                                                                                              | 41-PDIT-3674 | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0203-01      | ACROSE EK-HBG-1470    | DCS | AI  | 12/FV  | 250 | 5     | 200     | CSC-4 & MPC - 10 | 2"/300#RF              | SS316                             | * | * | -         | A         | - |  |  |
| 761                                                                                                                                                                                                                                              | 41-PIT-3681  | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0203-01      | 3"-GF-43-4179-AC01    | PSD | AI  | 12/FV  | 250 | 5     | 100     | CSC-4 & MPC - 10 | 1/2"NPTF               | SS316                             | * | * | -         | A         | - |  |  |
| 762                                                                                                                                                                                                                                              | 41-PSV-1154A | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-01      | 2"-HM-41-0465-BC01-3N | N/A | N/A | 100/FV | 250 | 4.5   | 100     | CSC-4 & MPC - 10 | 1" D 2"/300#RF         | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 763                                                                                                                                                                                                                                              | 41-PSV-1154B | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-01      | 2"-HM-41-0466-BC01-3N | N/A | N/A | 100/FV | 250 | 4.5   | 100     | CSC-4 & MPC - 10 | 1" D 2"/300#RF         | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 764                                                                                                                                                                                                                                              | 41-TW-3670   | THERMOWELL                                            | 17039-EK-P-DW-0203-01      | 3"-HM-41-3668-BC01-1N | N/A | N/A | 100/FV | 250 | 4.5   | 100     | CSC-4 & MPC - 10 | 1 1/2"/300#RF          | SS316                             | * | * | -         | A         | - |  |  |
| 765                                                                                                                                                                                                                                              | 41-TI-3670   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-01      | 3"-HM-41-3668-BC01-1N | N/A | N/A | 100/FV | 250 | 4.5   | 0-100   | CSC-4 & MPC - 10 | 1/2"NPTM               | SS316                             | * | * | -         | A         | - |  |  |
| 766                                                                                                                                                                                                                                              | 41-PIT-3671  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL              | 17039-EK-P-DW-0203-01      | 3"-HM-41-3668-BC01-1N | PSD | AI  | 100/FV | 250 | 4.5   | 100     | CSC-4 & MPC - 10 | 2"/300#RF              | SS316                             | * | * | -         | A         | - |  |  |
| 767                                                                                                                                                                                                                                              | 41-TV-3679   | TEMPERATURE CONTROL VALVE                             | 17039-EK-P-DW-0203-01      | 3"-HM-41-3669-BC01-1N | N/A | N/A | 100/FV | 250 | 4.5   | 100     | CSC-4 & MPC - 10 | 2"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 768                                                                                                                                                                                                                                              | 41-TY-3679   | POSITIONER                                            | 17039-EK-P-DW-0203-01      | N/A                   | DCS | AO  | N/A    | N/A | N/A   | N/A     | CSC-4 & MPC - 10 | N/A                    | N/A                               | * | * | -         | A         | - |  |  |
| 769                                                                                                                                                                                                                                              | 41-SDV-3668  | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-01      | 3"-HM-41-3674-BC01-1N | N/A | N/A | 12/FV  | 250 | 5     | 200     | CSC-4 & MPC - 10 | 3"/300#RF              | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 770                                                                                                                                                                                                                                              | 41-SXV-3668  | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-01      | N/A                   | PSD | DO  | N/A    | N/A | N/A   | N/A     |                  |                        |                                   |   |   |           |           |   |  |  |

|                                                                                                                                                                                                                                                                                                                                                    |               |                                                       |                            |                      |     |     |       |     |      |         |                  |                       |                                   |   |   |           |   |           |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------|----------------------------|----------------------|-----|-----|-------|-----|------|---------|------------------|-----------------------|-----------------------------------|---|---|-----------|---|-----------|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an undertaking of India Enterprise</small></div></div></div> |               |                                                       | CLIENT : OIL INDIA LIMITED |                      |     |     |       |     |      |         |                  |                       |                                   |   |   | DOC NO. : |   |           |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                  |               |                                                       |                            |                      |     |     |       |     |      |         |                  |                       |                                   |   |   |           |   | REV NO. : |  |
|                                                                                                                                                                                                                                                                                                                                                    |               |                                                       |                            |                      |     |     |       |     |      |         |                  |                       |                                   |   |   |           |   | DATE :    |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                   |               |                                                       |                            |                      |     |     |       |     |      |         |                  |                       |                                   |   |   |           |   |           |  |
| 790                                                                                                                                                                                                                                                                                                                                                | 20-PT-0405    | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL              | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | PSD | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 791                                                                                                                                                                                                                                                                                                                                                | 20-PI-0406    | PRESSURE INDICATOR WITH DIAPHRAGM SEAL                | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 792                                                                                                                                                                                                                                                                                                                                                | 20-PT-1067    | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL              | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | DCS | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 793                                                                                                                                                                                                                                                                                                                                                | 20-PY-1067A   | POSITIONER                                            | 17039-EK-P-DW-0203-02      | N/A                  | DCS | AO  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 794                                                                                                                                                                                                                                                                                                                                                | 20-PV-1067A   | PRESSURE CONTROL VALVE                                | 17039-EK-P-DW-0203-02      | 3"-PV-20-0356-BC01   | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 795                                                                                                                                                                                                                                                                                                                                                | 20-FT-0407    | DP TYPE FLOW TRANSMITTER                              | 17039-EK-P-DW-0203-02      | 3"-PV-20-0354-BC01   | DCS | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 1/2"NPTF              | SS316                             | * | * | -         | A | -         |  |
| 796                                                                                                                                                                                                                                                                                                                                                | 20-FE-0407    | FLOW ELEMENT (ORIFICE)                                | 17039-EK-P-DW-0203-02      | 3"-PV-20-0354-BC01   | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 3"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 797                                                                                                                                                                                                                                                                                                                                                | 20-PV-1067B   | PRESSURE CONTROL VALVE                                | 17039-EK-P-DW-0203-02      | 3"-PV-20-0354-BC01   | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 3"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 798                                                                                                                                                                                                                                                                                                                                                | 20-PY-1067B   | POSITIONER                                            | 17039-EK-P-DW-0203-02      | N/A                  | DCS | AO  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 799                                                                                                                                                                                                                                                                                                                                                | 20-SDV-2001   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-02      | 4"-PV-20-0355-AC01   | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 4"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 800                                                                                                                                                                                                                                                                                                                                                | 20-SXV-2001   | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-02      | N/A                  | PSD | DO  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | * | -         | A | -         |  |
| 801                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-2001   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-02      | N/A                  | DCS | DI  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 802                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-2001   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-02      | N/A                  | DCS | DI  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 803                                                                                                                                                                                                                                                                                                                                                | 20-TW-0403    | THERMOWELL                                            | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 804                                                                                                                                                                                                                                                                                                                                                | 20-TI-0403    | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | N/A | N/A | 30/FV | 80  | 26   | 0-50    | CSC-4 & MPC - 10 | 1/2"NPTM              | SS316                             | * | * | -         | A | -         |  |
| 805                                                                                                                                                                                                                                                                                                                                                | 20-ILT-0402   | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL         | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | PSD | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 806                                                                                                                                                                                                                                                                                                                                                | 20-ILG-7620   | MAGNETIC TYPE LEVEL INDICATOR                         | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 807                                                                                                                                                                                                                                                                                                                                                | 20-ILT-4502   | DISPLACER TYPE LEVEL TRANSMITTER                      | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | DCS | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 808                                                                                                                                                                                                                                                                                                                                                | 20-LG/LT-1068 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER   | 17039-EK-P-DW-0203-02      | EK-MBD-1020          | DCS | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 809                                                                                                                                                                                                                                                                                                                                                | 20-LT-0404    | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL         | 17039-EK-P-DW-0203-02      | ACROSS EK-MBD-1020   | PSD | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 810                                                                                                                                                                                                                                                                                                                                                | 20-SDV-1039   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-02      | 4"-PL--20-0357-BC01  | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 4"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 811                                                                                                                                                                                                                                                                                                                                                | 20-SXV-1039   | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-02      | N/A                  | PSD | DO  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | * | -         | A | -         |  |
| 812                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-1039   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-02      | N/A                  | DCS | DI  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 813                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-1039   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-02      | N/A                  | DCS | DI  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 814                                                                                                                                                                                                                                                                                                                                                | 20-FIT-0410   | CORIOLIS TYPE FLOW TRANSMITTER                        | 17039-EK-P-DW-0203-02      | 4"-PL--20-0357-BC01  | DCS | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 3"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 815                                                                                                                                                                                                                                                                                                                                                | 20-LV-1068    | LEVEL CONTROL VALVE                                   | 17039-EK-P-DW-0203-02      | 4"-PL--20-0357-BC01  | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 3"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 816                                                                                                                                                                                                                                                                                                                                                | 20-LY-1068    | POSITIONER                                            | 17039-EK-P-DW-0203-02      | N/A                  | DCS | AO  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 817                                                                                                                                                                                                                                                                                                                                                | 44-SDV-4502   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-02      | 3"-PW--44-4501--BC01 | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 3"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 818                                                                                                                                                                                                                                                                                                                                                | 44-SXV-4502   | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-02      | N/A                  | PSD | DO  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | * | -         | A | -         |  |
| 819                                                                                                                                                                                                                                                                                                                                                | 44-ZSL-4502   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-02      | N/A                  | DCS | DI  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 820                                                                                                                                                                                                                                                                                                                                                | 44-ZSH-4502   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-02      | N/A                  | DCS | DI  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 821                                                                                                                                                                                                                                                                                                                                                | 44-FIT-4501   | MAGNETIC TYPE FLOW TRANSMITTER                        | 17039-EK-P-DW-0203-02      | 3"-PW--44-4501--BC01 | DCS | AI  | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 3"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 822                                                                                                                                                                                                                                                                                                                                                | 44-ILV-4502   | LEVEL CONTROL VALVE                                   | 17039-EK-P-DW-0203-02      | 3"-PW--44-4501--BC01 | N/A | N/A | 30/FV | 80  | 26   | 50      | CSC-4 & MPC - 10 | 2"/300#RF             | SS316                             | * | * | -         | A | -         |  |
| 823                                                                                                                                                                                                                                                                                                                                                | 44-ILY-4502   | POSITIONER                                            | 17039-EK-P-DW-0203-02      | N/A                  | DCS | AO  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 824                                                                                                                                                                                                                                                                                                                                                | 42-FI-3807    | FLOW INDICATOR                                        | 17039-EK-P-DW-0203-03      | 1/2"-CO-42-3818-GT20 | N/A | N/A | 110   | 80  | 95   | AMBIENT | CSC-4 & MPC - 10 | 1/2"NPT               | SS316                             | * | * | -         | A | -         |  |
| 825                                                                                                                                                                                                                                                                                                                                                | 20-ESDV-0476  | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-03      | 10"-PT-13-0182-FC01  | N/A | N/A | 15/FV | 250 | 5-10 | 27-50   | CSC-4 & MPC - 10 | 10"/2500#RTJ          | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 826                                                                                                                                                                                                                                                                                                                                                | 20-SDY-0476   | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-03      | N/A                  | PSD | DO  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | SS316                             | * | * | -         | A | -         |  |
| 827                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-0476   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-03      | N/A                  | DCS | DI  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 828                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-0476   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-03      | N/A                  | DCS | DI  | N/A   | N/A | N/A  | N/A     | CSC-4 & MPC - 10 | N/A                   | N/A                               | * | * | -         | A | -         |  |
| 829                                                                                                                                                                                                                                                                                                                                                | 20-TW-0478    | THERMOWELL                                            | 17039-EK-P-DW-0203-03      | 10"-PT-13-0182-FC01  | N/A | N/A | 15/FV | 250 | 5-10 | 27-50   | CSC-4 & MPC - 10 | 1 1/2"/2500#RTJ       | SS316                             | * | * | -         | A | -         |  |
| 830                                                                                                                                                                                                                                                                                                                                                | 20-TI-0478    | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-03      | 10"-PT-13-0182-FC01  | N/A | N/A | 15/FV | 250 | 5-10 | 27-50   | CSC-4 & MPC - 10 | 1/2"NPTM              | SS316                             | * | * | -         | A | -         |  |
| 831                                                                                                                                                                                                                                                                                                                                                | 20-PDIT-0479  | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0203-03      | ACROSE EK-HBG-1480   | DCS | AI  | 15/FV | 250 | 5-10 | 27-50   | CSC-4 & MPC - 10 | 2"/2500#RTJ           | SS316                             | * | * | -         | A | -         |  |
| 832                                                                                                                                                                                                                                                                                                                                                | 20-PSV-0476A  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-03      | 6"-PV-20-0371-BC01   | N/A | N/A | 15/FV | 250 | 5-10 | 27-50   | CSC-4 & MPC - 10 | 4"/300#RF P 6"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 833                                                                                                                                                                                                                                                                                                                                                | 20-PSV-0476B  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-03      | 6"-PV-20-            |     |     |       |     |      |         |                  |                       |                                   |   |   |           |   |           |  |

|                                                                                                                                                                                                                                                          |                |                                                     |                            |                        |     |     |       |     |         |      |                  |                  |                                   |   |   |   |           |           |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|----------------------------|------------------------|-----|-----|-------|-----|---------|------|------------------|------------------|-----------------------------------|---|---|---|-----------|-----------|--|--|--|
| <div> <b>KAVIN™</b></div> <div><div>ऑयल इंडिया लिमिटेड<br/>Oil India Limited</div></div> |                |                                                     | CLIENT : OIL INDIA LIMITED |                        |     |     |       |     |         |      |                  |                  |                                   |   |   |   | DOC NO. : |           |  |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                        |                |                                                     |                            |                        |     |     |       |     |         |      |                  |                  |                                   |   |   |   |           | REV NO. : |  |  |  |
|                                                                                                                                                                                                                                                          |                |                                                     |                            |                        |     |     |       |     |         |      |                  |                  |                                   |   |   |   |           | DATE :    |  |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                         |                |                                                     |                            |                        |     |     |       |     |         |      |                  |                  |                                   |   |   |   |           |           |  |  |  |
| 851                                                                                                                                                                                                                                                      | 20-TI-0480     | TEMPERATURE INDICATOR                               | 17039-EK-P-DW-0203-03      | 8"-PT-20-0366-BC01     | N/A | N/A | 15/FV | 250 | 4.5-9.5 | 0-50 | CSC-4 & MPC - 10 | 1/2"NPTM         | SS316                             | * | * | - | A         | -         |  |  |  |
| 852                                                                                                                                                                                                                                                      | 20-TW-0481     | THERMOWELL                                          | 17039-EK-P-DW-0203-03      | 8"-PT-20-0366-BC01     | N/A | N/A | 15/FV | 250 | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 1 1/2"/300#RF    | SS316                             | * | * | - | A         | -         |  |  |  |
| 853                                                                                                                                                                                                                                                      | 20-TIT-0481    | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0203-03      | 8"-PT-20-0366-BC01     | PSD | AI  | 15/FV | 250 | 4.5-9.5 | 0-50 | CSC-4 & MPC - 10 | 1/2"NPTM         | SS316                             | * | * | - | A         | -         |  |  |  |
| 854                                                                                                                                                                                                                                                      | 20-PI-0482     | PRESSURE INDICATOR WITH DIAPHRAGM SEAL              | 17039-EK-P-DW-0203-03      | 8"-PT-20-0366-BC01     | N/A | N/A | 15/FV | 250 | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/300#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 855                                                                                                                                                                                                                                                      | 20-TW-0483     | THERMOWELL                                          | 17039-EK-P-DW-0203-03      | 8"-PT-20-0366-BC01     | N/A | N/A | 15/FV | 250 | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 1/2"NPTM         | SS316                             | * | * | - | A         | -         |  |  |  |
| 856                                                                                                                                                                                                                                                      | 20-TT-0483     | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0203-03      | 8"-PT-20-0366-BC01     | DCS | AI  | 15/FV | 250 | 4.5-9.5 | 0-50 | CSC-4 & MPC - 10 | 1/2"NPTM         | SS316                             | * | * | - | A         | -         |  |  |  |
| 857                                                                                                                                                                                                                                                      | 20-BDV-1033    | BLOWDOWN VALVE                                      | 17039-EK-P-DW-0203-03      | 2"-PV-20-0373-BC01     | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | -         |  |  |  |
| 858                                                                                                                                                                                                                                                      | 20-BXV-1033    | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-03      | N/A                    | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | SS316                             | * | * | - | A         | -         |  |  |  |
| 859                                                                                                                                                                                                                                                      | 20-ZSL-1033    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-03      | N/A                    | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 860                                                                                                                                                                                                                                                      | 20-ZSH-1033    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-03      | N/A                    | DCS | DI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 861                                                                                                                                                                                                                                                      | 20-RO-1409     | RESTRICTION ORIFICE                                 | 17039-EK-P-DW-0203-03      | 2"-PV-20-0373A-BC01    | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 862                                                                                                                                                                                                                                                      | 44-SDV-0901    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-04      | 8"-PT-20-0366-BC01     | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 8"/300#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | -         |  |  |  |
| 863                                                                                                                                                                                                                                                      | 44-SXV-0901    | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-04      | N/A                    | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | SS316                             | * | * | - | A         | -         |  |  |  |
| 864                                                                                                                                                                                                                                                      | 44-ZSL-0901    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-04      | N/A                    | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 865                                                                                                                                                                                                                                                      | 44-ZSH-0901    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-04      | N/A                    | DCS | DI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 866                                                                                                                                                                                                                                                      | 20-PSV-0476A   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0203-04      | 6"-PV-20-0371-AC01     | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 4" P 6" / 150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | -         |  |  |  |
| 867                                                                                                                                                                                                                                                      | 20-PSV-0476B   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0203-04      | 6"-PV-20-0372-AC01     | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 4" P 6" / 150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | -         |  |  |  |
| 868                                                                                                                                                                                                                                                      | 20-PIT-0454    | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL            | 17039-EK-P-DW-0203-04      | EK-MBD-1340            | PSD | AI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 869                                                                                                                                                                                                                                                      | 20-PI-0455     | PRESSURE INDICATOR WITH DIAPHRAGM SEAL              | 17039-EK-P-DW-0203-04      | EK-MBD-1340            | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 870                                                                                                                                                                                                                                                      | 20-PIT-0456    | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL            | 17039-EK-P-DW-0203-04      | EK-MBD-1340            | DCS | AI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 871                                                                                                                                                                                                                                                      | 20-FIT-0457    | DP TYPE FLOW TRANSMITTER                            | 17039-EK-P-DW-0203-04      | 6"-PV-20-0367-AC01     | DCS | AI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 1/2"NPTF         | SS316                             | * | * | - | A         | -         |  |  |  |
| 872                                                                                                                                                                                                                                                      | 20-FE-0457     | FLOW ELEMENT (ORIFICE)                              | 17039-EK-P-DW-0203-04      | 6"-PV-20-0367-AC01     | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 6"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 873                                                                                                                                                                                                                                                      | 20-SDV-0469    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-04      | 6"-PL--20-0369-AC01    | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 6"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | -         |  |  |  |
| 874                                                                                                                                                                                                                                                      | 20-SXV-0469    | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-04      | N/A                    | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | SS316                             | * | * | - | A         | -         |  |  |  |
| 875                                                                                                                                                                                                                                                      | 20-ZSL-0469    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-04      | N/A                    | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 876                                                                                                                                                                                                                                                      | 20-ZSH-0469    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-04      | N/A                    | DCS | DI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 877                                                                                                                                                                                                                                                      | 20-PV-0456A    | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0203-04      | 6"-PV-20-0394-AC01     | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 4"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | -         |  |  |  |
| 878                                                                                                                                                                                                                                                      | 20-PY-0456A    | POSITIONER                                          | 17039-EK-P-DW-0203-04      | N/A                    | DCS | AO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 879                                                                                                                                                                                                                                                      | 20-PV-0456B    | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0203-04      | 6"-PV-20-0367-AC01     | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 4"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | -         |  |  |  |
| 880                                                                                                                                                                                                                                                      | 20-PY-0456B    | POSITIONER                                          | 17039-EK-P-DW-0203-04      | N/A                    | DCS | AO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 881                                                                                                                                                                                                                                                      | 20-TW-0465     | THERMOWELL                                          | 17039-EK-P-DW-0203-04      | EK-MBD-1340            | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 882                                                                                                                                                                                                                                                      | 20-TI-0465     | TEMPERATURE INDICATOR                               | 17039-EK-P-DW-0203-04      | EK-MBD-1340            | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 0-50 | CSC-4 & MPC - 10 | 1/2"NPTM         | SS316                             | * | * | - | A         | -         |  |  |  |
| 883                                                                                                                                                                                                                                                      | 20-ILIT-0464   | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL       | 17039-EK-P-DW-0203-04      | EK-MBD-1340            | PSD | AI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 884                                                                                                                                                                                                                                                      | 20-LG/LIT-0463 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0203-04      | EK-MBD-1340            | DCS | AI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 885                                                                                                                                                                                                                                                      | 20-LT-0462     | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL       | 17039-EK-P-DW-0203-04      | ACROSS EK-MBD-1340     | PSD | AI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 886                                                                                                                                                                                                                                                      | 20-SDV-0459    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-04      | 3"-PL--20-0369-AC01    | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 3"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | -         |  |  |  |
| 887                                                                                                                                                                                                                                                      | 20-SXV-0459    | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-04      | N/A                    | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | SS316                             | * | * | - | A         | -         |  |  |  |
| 888                                                                                                                                                                                                                                                      | 20-ZSL-0459    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-04      | N/A                    | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 889                                                                                                                                                                                                                                                      | 20-ZSH-0459    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-04      | N/A                    | DCS | DI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 890                                                                                                                                                                                                                                                      | 20-FIT-0460    | CORIOLIS TYPE FLOW TRANSMITTER                      | 17039-EK-P-DW-0203-04      | 3"-PL--20-0369-AC01    | DCS | AI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 3"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 891                                                                                                                                                                                                                                                      | 20-LV-0463     | LEVEL CONTROL VALVE                                 | 17039-EK-P-DW-0203-04      | 3"-PL--20-0369-AC01    | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 2"/150#RF        | SS316                             | * | * | - | A         | -         |  |  |  |
| 892                                                                                                                                                                                                                                                      | 20-LY-0463     | POSITIONER                                          | 17039-EK-P-DW-0203-04      | N/A                    | DCS | AO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A              | N/A                               | * | * | - | A         | -         |  |  |  |
| 893                                                                                                                                                                                                                                                      | 44-SDV-4668    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-04      | 3"-PW--44-4668--AC01</ |     |     |       |     |         |      |                  |                  |                                   |   |   |   |           |           |  |  |  |

|                                                                                                                                                                                                   |                 |                                                     |                            |                      |     |     |       |     |         |      |                  |           |                                |   |   |   |           |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|----------------------------|----------------------|-----|-----|-------|-----|---------|------|------------------|-----------|--------------------------------|---|---|---|-----------|---|--|
| <div><div></div><div></div></div> |                 |                                                     | CLIENT : OIL INDIA LIMITED |                      |     |     |       |     |         |      |                  |           |                                |   |   |   | DOC NO. : |   |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                 |                 |                                                     |                            |                      |     |     |       |     |         |      |                  |           |                                |   |   |   | REV NO. : |   |  |
|                                                                                                                                                                                                   |                 |                                                     |                            |                      |     |     |       |     |         |      |                  |           |                                |   |   |   | DATE :    |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |                 |                                                     |                            |                      |     |     |       |     |         |      |                  |           |                                |   |   |   |           |   |  |
| 912                                                                                                                                                                                               | 20-PI-0455A     | PRESSURE INDICATOR WITH DIAPHRAGM SEAL              | 17039-EK-P-DW-0203-05      | EK-MBD-1500          | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 913                                                                                                                                                                                               | 20-PIT-0456A    | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL            | 17039-EK-P-DW-0203-05      | EK-MBD-1500          | DCS | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 914                                                                                                                                                                                               | 20-PIT-0457     | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL            | 17039-EK-P-DW-0203-05      | 6"-PV-20-0367A-BC01  | DCS | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 915                                                                                                                                                                                               | 20-FIT-0457A    | DP TYPE FLOW TRANSMITTER                            | 17039-EK-P-DW-0203-05      | 6"-PV-20-0367A-BC01  | DCS | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 1/2"NPTF  | SS316                          | * | * | - | A         | - |  |
| 916                                                                                                                                                                                               | 20-FE-0457A     | FLOW ELEMENT (ORIFICE)                              | 17039-EK-P-DW-0203-05      | 6"-PV-20-0367A-BC01  | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 6"/300#RF | SS316                          | * | * | - | A         | - |  |
| 917                                                                                                                                                                                               | 20-SDV-0489A    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-04      | 6"-PV-20-0367A-BC01  | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 6"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | - |  |
| 918                                                                                                                                                                                               | 20-SXV-0489A    | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-04      | N/A                  | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | SS316                          | * | * | - | A         | - |  |
| 919                                                                                                                                                                                               | 20-ZSL-0489A    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-04      | N/A                  | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 920                                                                                                                                                                                               | 20-ZSH-0489A    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-04      | N/A                  | DCS | DI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 921                                                                                                                                                                                               | 20-SDV-0489B    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-04      | 3"-PV-20-0367C-BC01  | N/A | N/A | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | 3"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | - |  |
| 922                                                                                                                                                                                               | 20-SXV-0489B    | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-04      | N/A                  | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | SS316                          | * | * | - | A         | - |  |
| 923                                                                                                                                                                                               | 20-ZSL-0489B    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-04      | N/A                  | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 924                                                                                                                                                                                               | 20-ZSH-0489B    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-04      | N/A                  | DCS | DI  | 15/FV | 80  | 4.5-9.5 | 50   | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 925                                                                                                                                                                                               | 20-PV-0456AA    | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0203-05      | 8"-PV-20-0394A-BC01  | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 6"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | - |  |
| 926                                                                                                                                                                                               | 20-PY-0456AA    | POSITIONER                                          | 17039-EK-P-DW-0203-05      | N/A                  | DCS | AO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 927                                                                                                                                                                                               | 20-PV-0457A     | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0203-05      | 6"-PV-20-0367A-BC01  | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 4"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | - |  |
| 928                                                                                                                                                                                               | 20-PY-0457A     | POSITIONER                                          | 17039-EK-P-DW-0203-05      | N/A                  | DCS | AO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 929                                                                                                                                                                                               | 20-PV-0457B     | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0203-05      | 3"-PV-20-0367C-BC01  | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | - |  |
| 930                                                                                                                                                                                               | 20-PY-0457B     | POSITIONER                                          | 17039-EK-P-DW-0203-05      | N/A                  | DCS | AO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 931                                                                                                                                                                                               | 20-TW-0465A     | THERMOWELL                                          | 17039-EK-P-DW-0203-05      | EK-MBD-1500          | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 932                                                                                                                                                                                               | 20-TI-0465A     | TEMPERATURE INDICATOR                               | 17039-EK-P-DW-0203-05      | EK-MBD-1500          | N/A | N/A | 30/FV | 80  | 4.5-26  | 0-50 | CSC-4 & MPC - 10 | 1/2"NPTM  | SS316                          | * | * | - | A         | - |  |
| 933                                                                                                                                                                                               | 20-ILIT-0464A   | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL       | 17039-EK-P-DW-0203-05      | EK-MBD-1500          | PSD | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 934                                                                                                                                                                                               | 20-ILIT-0466A   | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0203-05      | EK-MBD-1500          | DCS | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 935                                                                                                                                                                                               | 20-LG/LIT-0463A | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0203-05      | EK-MBD-1500          | DCS | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 936                                                                                                                                                                                               | 20-LT-0462A     | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL       | 17039-EK-P-DW-0203-05      | ACROSS EK-MBD-1500   | PSD | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 937                                                                                                                                                                                               | 20-SDV-0459A    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-05      | 3"-PL--20-0369A-BC01 | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 3"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | - |  |
| 938                                                                                                                                                                                               | 20-SXV-0459A    | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-05      | N/A                  | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | SS316                          | * | * | - | A         | - |  |
| 939                                                                                                                                                                                               | 20-ZSL-0459A    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-05      | N/A                  | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 940                                                                                                                                                                                               | 20-ZSH-0459A    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-05      | N/A                  | DCS | DI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 941                                                                                                                                                                                               | 20-FIT-0460A    | CORIOLIS TYPE FLOW TRANSMITTER                      | 17039-EK-P-DW-0203-05      | 3"-PL--20-0369A-BC01 | DCS | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 3"/300#RF | SS316                          | * | * | - | A         | - |  |
| 942                                                                                                                                                                                               | 20-LV-0463A     | LEVEL CONTROL VALVE                                 | 17039-EK-P-DW-0203-05      | 3"-PL--20-0369A-BC01 | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 943                                                                                                                                                                                               | 20-LY-0463A     | POSITIONER                                          | 17039-EK-P-DW-0203-05      | N/A                  | DCS | AO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 944                                                                                                                                                                                               | 44-SDV-4668A    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-05      | 3"-PW--44-4668A-BC01 | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 3"/300#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | - |  |
| 945                                                                                                                                                                                               | 44-SXV-4668A    | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-05      | N/A                  | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | SS316                          | * | * | - | A         | - |  |
| 946                                                                                                                                                                                               | 44-ZSL-4668A    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-05      | N/A                  | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 947                                                                                                                                                                                               | 44-ZSH-4668A    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-05      | N/A                  | DCS | DI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 948                                                                                                                                                                                               | 44-FIT-4669A    | MAGNETIC TYPE FLOW TRANSMITTER                      | 17039-EK-P-DW-0203-05      | 3"-PW--44-4668A-BC01 | DCS | AI  | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 3"/300#RF | SS316                          | * | * | - | A         | - |  |
| 949                                                                                                                                                                                               | 44-ILV-0466A    | LEVEL CONTROL VALVE                                 | 17039-EK-P-DW-0203-05      | 3"-PW--44-4668A-BC01 | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 2"/300#RF | SS316                          | * | * | - | A         | - |  |
| 950                                                                                                                                                                                               | 44-ILY-0466A    | POSITIONER                                          | 17039-EK-P-DW-0203-05      | N/A                  | DCS | AO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 951                                                                                                                                                                                               | 42-FI-3901      | FLOW INDICATOR                                      | 17039-EK-P-DW-0203-06      | 4"-PT-20-0384-AC01   | N/A | N/A | 30/FV | 80  | 4.5-26  | 50   | CSC-4 & MPC - 10 | 1/2"NPT   | SS316                          | * | * | - | A         | - |  |
| 952                                                                                                                                                                                               | 20-XV-1720      | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-06      | 3"-PT-20-0358-AC01   | N/A | N/A | 10/FV | 150 | 4       | 55   | CSC-4 & MPC - 10 | 3"/150#RF | BODY: CARBON STEEL TRIM: SS316 | * | * | - | A         | - |  |
| 953                                                                                                                                                                                               | 20-XY-1720      | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-06      | N/A                  | PSD | DO  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | SS316                          | * | * | - | A         | - |  |
| 954                                                                                                                                                                                               | 20-ZSL-1720     | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-06      | N/A                  | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 955                                                                                                                                                                                               | 20-ZSH-1720     | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-06      | N/A                  | DCS | DI  | N/A   | N/A | N/A     | N/A  | CSC-4 & MPC - 10 | N/A       | N/A                            | * | * | - | A         | - |  |
| 956                                                                                                                                                                                               | 20-XV-1719      | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-06      | 3"-PT-20-0396B-AC01  | N/A | N/A | 10/FV | 150 | 4</     |      |                  |           |                                |   |   |   |           |   |  |

|                                                                                                                                                                                                   |              |                                                       |                                                                                                                                                            |                       |     |     |       |     |     |       |                  |                 |                                   |   |   |   |   |                                                             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|-----|-------|-----|-----|-------|------------------|-----------------|-----------------------------------|---|---|---|---|-------------------------------------------------------------|--|
| <div><div></div><div></div></div> |              |                                                       | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                       |     |     |       |     |     |       |                  |                 |                                   |   |   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                                                       |                                                                                                                                                            |                       |     |     |       |     |     |       |                  |                 |                                   |   |   |   |   |                                                             |  |
| 973                                                                                                                                                                                               | 20-TW-0479   | THERMOWELL                                            | 17039-EK-P-DW-0203-06                                                                                                                                      | 3"-PL-20-0457-AC01    | N/A | N/A | 10/FV | 150 | 4.5 | 112   | CSC-4 & MPC - 10 | 1 1/2"/150#RF   | SS316                             | * | * | - | A | -                                                           |  |
| 974                                                                                                                                                                                               | 20-TI-0479   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-06                                                                                                                                      | 3"-PL-20-0457-AC01    | N/A | N/A | 10/FV | 150 | 4.5 | 0-112 | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A | -                                                           |  |
| 975                                                                                                                                                                                               | 20-PSV-0476A | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-06                                                                                                                                      | 2"-PL-20-0380-AC01    | N/A | N/A | 10/FV | 150 | 4.5 | 112   | CSC-4 & MPC - 10 | 1" E 2" /150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A | -                                                           |  |
| 976                                                                                                                                                                                               | 20-PSV-0476B | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-06                                                                                                                                      | 2"-PL-20-0381-AC01    | N/A | N/A | 10/FV | 150 | 4.5 | 112   | CSC-4 & MPC - 10 | 1" E 2" /150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A | -                                                           |  |
| 977                                                                                                                                                                                               | 20-XY-0473A  | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-06                                                                                                                                      | 3"-PL-20-0376-AC01    | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 3"/150#RF       | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A | -                                                           |  |
| 978                                                                                                                                                                                               | 20-XY-0473A  | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | DCS | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A | -                                                           |  |
| 979                                                                                                                                                                                               | 20-XY-0473C  | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | PSD | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A | -                                                           |  |
| 980                                                                                                                                                                                               | 20-ZSL-0473A | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A | -                                                           |  |
| 981                                                                                                                                                                                               | 20-ZSH-0473B | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A | -                                                           |  |
| 982                                                                                                                                                                                               | 20-XV-0473B  | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-06                                                                                                                                      | 3"-PL-20-0375A-AC01   | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 4"/150#RF       | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A | -                                                           |  |
| 983                                                                                                                                                                                               | 20-XY-0473B  | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | DCS | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A | -                                                           |  |
| 984                                                                                                                                                                                               | 20-XY-0473D  | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | PSD | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A | -                                                           |  |
| 985                                                                                                                                                                                               | 20-ZSL-0473B | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A | -                                                           |  |
| 986                                                                                                                                                                                               | 20-ZSH-0473B | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A | -                                                           |  |
| 987                                                                                                                                                                                               | 20-AIT-0475  | BS&W ANALYZER TRANSMITTER                             | 17039-EK-P-DW-0203-06                                                                                                                                      | 3"-PL-20-0374-AC01    | DCS | AI  | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 1/2"NPTF        | SS316                             | * | * | - | A | -                                                           |  |
| 988                                                                                                                                                                                               | 20-LV-0476   | LEVEL CONTROL VALVE                                   | 17039-EK-P-DW-0203-06                                                                                                                                      | 2"-PL-20-0374-AC01    | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 2"/150#RF       | SS316                             | * | * | - | A | -                                                           |  |
| 989                                                                                                                                                                                               | 20-LY-0476   | POSITIONER                                            | 17039-EK-P-DW-0203-06                                                                                                                                      | N/A                   | DCS | AO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A | -                                                           |  |
| 990                                                                                                                                                                                               | 20-PI-0477   | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0203-06                                                                                                                                      | 3"-PL-20-0374-AC01    | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 1/2"NPT         | SS316                             | * | * | - | A | -                                                           |  |
| 991                                                                                                                                                                                               | 20-TW-0478   | THERMOWELL                                            | 17039-EK-P-DW-0203-06                                                                                                                                      | 3"-PL-20-0374-AC01    | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 1 1/2"/150#RF   | SS316                             | * | * | - | A | -                                                           |  |
| 992                                                                                                                                                                                               | 20-TI-0478   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-06                                                                                                                                      | 3"-PL-20-0374-AC01    | N/A | N/A | 10/FV | 150 | 4   | 0-55  | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A | -                                                           |  |
| 993                                                                                                                                                                                               | 20-PDIT-0480 | DIFFERENCIAL PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0203-06                                                                                                                                      | ACROSE EK-HBG-A-1030  | DCS | AI  | 10/FV | 150 | 2.8 | 95-98 | CSC-4 & MPC - 10 | 1/2"NPT         | SS316                             | * | * | - | A | -                                                           |  |
| 994                                                                                                                                                                                               | 20-TW-0471   | THERMOWELL                                            | 17039-EK-P-DW-0203-06                                                                                                                                      | 4"-PT-20-0377-AC01    | N/A | N/A | 10/FV | 150 | 2.3 | 95-98 | CSC-4 & MPC - 10 | 1 1/2"/150#RF   | SS316                             | * | * | - | A | -                                                           |  |
| 995                                                                                                                                                                                               | 20-TI-0471   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-06                                                                                                                                      | 4"-PT-20-0377-AC01    | N/A | N/A | 10/FV | 150 | 2.3 | 95-98 | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A | -                                                           |  |
| 996                                                                                                                                                                                               | 41-PSV-3607A | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3606-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A | -                                                           |  |
| 997                                                                                                                                                                                               | 41-PSV-3607B | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3605-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A | -                                                           |  |
| 998                                                                                                                                                                                               | 20-PDIT-3605 | DIFFERENCIAL PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0203-07                                                                                                                                      | ACROSE EK-HBG-A-1040  | DCS | AI  | 12/FV | 250 | 5   | 100   | CSC-4 & MPC - 10 | 1/2"NPT         | SS316                             | * | * | - | A | -                                                           |  |
| 999                                                                                                                                                                                               | 41-TW-3603   | THERMOWELL                                            | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3603-BC01-1N | N/A | N/A | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 1 1/2"/300#RF   | SS316                             | * | * | - | A | -                                                           |  |
| 1000                                                                                                                                                                                              | 41-TI-3603   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3603-BC01-1N | N/A | N/A | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A | -                                                           |  |
| 1001                                                                                                                                                                                              | 41-PI-3604   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL                | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3603-BC01-1N | N/A | N/A | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 1 1/2"/300#RF   | SS316                             | * | * | - | A | -                                                           |  |
| 1002                                                                                                                                                                                              | 41-TV-0470   | TEMPERATURE CONTROL VALVE                             | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3603-BC01-1N | N/A | N/A | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 1"/300#RF       | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A | -                                                           |  |
| 1003                                                                                                                                                                                              | 41-TY-0470   | POSITIONER                                            | 17039-EK-P-DW-0203-07                                                                                                                                      | N/A                   | DCS | AO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A | -                                                           |  |
| 1004                                                                                                                                                                                              | 41-SDV-3606  | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3601-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 2"/300#RF       | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A | -                                                           |  |
| 1005                                                                                                                                                                                              | 41-SXV-3606  | SOLENOID VALVE                                        | 17039-EK-P-DW-0203-07                                                                                                                                      | N/A                   | PSD | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A | -                                                           |  |
| 1006                                                                                                                                                                                              | ZSL-3606     | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0203-07                                                                                                                                      | N/A                   | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A | -                                                           |  |
| 1007                                                                                                                                                                                              | ZSH-3606     | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0203-07                                                                                                                                      | N/A                   | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A | -                                                           |  |
| 1008                                                                                                                                                                                              | 41-PI-3601   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL                | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3601-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A | -                                                           |  |
| 1009                                                                                                                                                                                              | 41-TW-3602   | THERMOWELL                                            | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3601-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1 1/2"/300#RF   | SS316                             | * | * | - | A | -                                                           |  |
| 1010                                                                                                                                                                                              | 41-TI-3602   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-07                                                                                                                                      | 2"-HM-41-3601-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A | -                                                           |  |
| 1011                                                                                                                                                                                              | 41-PDIT-3610 | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0203-07                                                                                                                                      | ACROSE EK-HBG-A-1040  | DCS | AI  | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 2"/300#RF       | SS316                             | * | * | - | A | -                                                           |  |
| 1012                                                                                                                                                                                              | 20-TW-0467   | THERMOWELL                                            | 17039-EK-P-DW-0203-07                                                                                                                                      | 4"-PT-20-0384-AC01    | N/A | N/A | 10/FV | 250 | 1.8 | 112   | CSC-4 & MPC - 10 | 1 1/2"/150#RF   | SS316                             | * | * | - | A | -                                                           |  |
| 1013                                                                                                                                                                                              | 20-TI-0467   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0203-07                                                                                                                                      | 4"-PT-20-0384-AC01    | N/A | N/A | 10/FV | 250 | 1.8 | 112   | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A | -                                                           |  |
| 1014                                                                                                                                                                                              | 20-TW-0468   | THERMOWELL                                            | 17039-EK-P-DW-0203-07                                                                                                                                      | 4"-PT-20-0384-AC01    | N/A | N/A | 10/FV | 250 | 1.8 | 112   | CSC-4 & MPC - 10 | 1 1/2"/150#RF   | SS316                             | * | * | - | A | -                                                           |  |
| 1015                                                                                                                                                                                              | 20-TIT-0468  | TEMPERATURE TRANSMITTER                               | 17                                                                                                                                                         |                       |     |     |       |     |     |       |                  |                 |                                   |   |   |   |   |                                                             |  |

|                                                                                                                                                                                                   |                 |                                                     |                                                                                                                                                            |                        |     |     |       |     |     |     |                  |           |                                   |   |   |                                                             |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|-------|-----|-----|-----|------------------|-----------|-----------------------------------|---|---|-------------------------------------------------------------|---|---|
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| INSTRUMENT INDEX                                                                                                                                                                                  |                 |                                                     |                                                                                                                                                            |                        |     |     |       |     |     |     |                  |           |                                   |   |   |                                                             |   |   |
| 1034                                                                                                                                                                                              | 20-HS-2012A     | START                                               | 17039-EK-P-DW-0203-08                                                                                                                                      | DEHYDRATOR TRANSFORMER | DCS | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1035                                                                                                                                                                                              | 20-XS-2012      | SHUTDOWN                                            | 17039-EK-P-DW-0203-08                                                                                                                                      | DEHYDRATOR TRANSFORMER | PSD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1036                                                                                                                                                                                              | 20-HS-2012B     | STOP                                                | 17039-EK-P-DW-0203-08                                                                                                                                      | DEHYDRATOR TRANSFORMER | DCS | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1037                                                                                                                                                                                              | 20-XI-1060      | RUNNING                                             | 17039-EK-P-DW-0203-08                                                                                                                                      | LV SWITCH GEAR         | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1038                                                                                                                                                                                              | 20-XA-1060      | FAULT                                               | 17039-EK-P-DW-0203-08                                                                                                                                      | LV SWITCH GEAR         | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1039                                                                                                                                                                                              | 20-XS-1060      | SHUTDOWN                                            | 17039-EK-P-DW-0203-08                                                                                                                                      | LV SWITCH GEAR         | PSD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1040                                                                                                                                                                                              | 20-X-1060       | START                                               | 17039-EK-P-DW-0203-08                                                                                                                                      | LV SWITCH GEAR         | DCS | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1041                                                                                                                                                                                              | 20-X-1060       | STOP                                                | 17039-EK-P-DW-0203-08                                                                                                                                      | LV SWITCH GEAR         | DCS | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1042                                                                                                                                                                                              | 20-HS-1060      | START / STOP                                        | 17039-EK-P-DW-0203-08                                                                                                                                      | LV SWITCH GEAR         | TCP | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1043                                                                                                                                                                                              | 20-PSH-1060A    | PRESSURE SWITCH HIGH                                | 17039-EK-P-DW-0203-08                                                                                                                                      | TRANSFORMER-A 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 |           | SS316                             | * | * | -                                                           | A | - |
| 1044                                                                                                                                                                                              | 20-TSH-1060A    | TEMPERATURE SWITCH HIGH                             | 17039-EK-P-DW-0203-08                                                                                                                                      | TRANSFORMER-A 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1045                                                                                                                                                                                              | 20-TSH-1060A    | TEMPERATURE SWITCH HIGH                             | 17039-EK-P-DW-0203-08                                                                                                                                      | TRANSFORMER-A 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1046                                                                                                                                                                                              | 20-LS-0443      | LEVEL SWITCH                                        | 17039-EK-P-DW-0203-08                                                                                                                                      | EK-MBM-A-1060          | TCP | DI  | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 6"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1047                                                                                                                                                                                              | 20-PSH-1060B    | PRESSURE SWITCH HIGH                                | 17039-EK-P-DW-0203-08                                                                                                                                      | TRANSFORMER-B 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 |           | SS316                             | * | * | -                                                           | A | - |
| 1048                                                                                                                                                                                              | 20-TSH-1060B    | TEMPERATURE SWITCH HIGH                             | 17039-EK-P-DW-0203-08                                                                                                                                      | TRANSFORMER-B 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1049                                                                                                                                                                                              | 20-TSH-1060BB   | TEMPERATURE SWITCH HIGH                             | 17039-EK-P-DW-0203-08                                                                                                                                      | TRANSFORMER-B 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1050                                                                                                                                                                                              | 20-ILT/ILG-4504 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0203-08                                                                                                                                      | EK-MBM-A-1060          | DCS | AI  | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 2"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1051                                                                                                                                                                                              | 20-ILG-0442     | TRANSPARENT TYPE LEVEL INDICATOR                    | 17039-EK-P-DW-0203-08                                                                                                                                      | EK-MBM-A-1060          | N/A | N/A | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 2"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1052                                                                                                                                                                                              | 20-ILIT-0415    | DP TYPE LEVEL TRANSMITTER                           | 17039-EK-P-DW-0203-08                                                                                                                                      | EK-MBM-A-1060          | PSD | AI  | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 1/2"NPT   | SS316                             | * | * | -                                                           | A | - |
| 1053                                                                                                                                                                                              | 20-TW-0414      | THERMOWELL                                          | 17039-EK-P-DW-0203-08                                                                                                                                      | EK-MBM-A-1060          | N/A | N/A | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 2"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1054                                                                                                                                                                                              | 20-TIT-0414     | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0203-08                                                                                                                                      | EK-MBM-A-1060          | DCS | AI  | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 1/2"NPTM  | SS316                             | * | * | -                                                           | A | - |
| 1055                                                                                                                                                                                              | 44-ILV-4504     | LEVEL CONTROL VALVE                                 | 17039-EK-P-DW-0203-08                                                                                                                                      | 2"-PW-44-4503-AC01     | N/A | N/A | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 1"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1056                                                                                                                                                                                              | 44-ILY-4504     | POSITIONER                                          | 17039-EK-P-DW-0203-08                                                                                                                                      | N/A                    | DCS | AO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1057                                                                                                                                                                                              | 44-SDV-1993     | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-08                                                                                                                                      | 2"-PW-44-4503-AC01     | N/A | N/A | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1058                                                                                                                                                                                              | 44-SXV-1993     | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-08                                                                                                                                      | N/A                    | PSD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1059                                                                                                                                                                                              | 44-ZSL-1993     | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-08                                                                                                                                      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1060                                                                                                                                                                                              | 44-ZSH-1993     | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-08                                                                                                                                      | N/A                    | DCS | DI  | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1061                                                                                                                                                                                              | 44-SDV-1190     | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-08                                                                                                                                      | 3"-PV-20-0905A-AC01    | N/A | N/A | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1062                                                                                                                                                                                              | 44-SXV-1190     | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-08                                                                                                                                      | N/A                    | PSD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1063                                                                                                                                                                                              | 44-ZSL-1190     | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-08                                                                                                                                      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1064                                                                                                                                                                                              | 44-ZSH-1190     | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-08                                                                                                                                      | N/A                    | DCS | DI  | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1065                                                                                                                                                                                              | 20-AIT-0121     | ANALYSER TRANSMITTER                                | 17039-EK-P-DW-0203-08                                                                                                                                      | 2"-PW-44-4503-AC01     | DCS | AI  | 10/FV | 150 | 1.8 | 112 | CSC-4 & MPC - 10 | 1/2"NPTF  | SS316                             | * | * | -                                                           | A | - |
| 1066                                                                                                                                                                                              | 20-FV-1117      | FLOW CONTROL VALVE                                  | 17039-EK-P-DW-0203-09                                                                                                                                      | 2"-PL-20-0456-AC01     | N/A | N/A | 10    | 150 | 5   | 115 | CSC-4 & MPC - 10 | 1"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1067                                                                                                                                                                                              | 20-FY-1117      | POSITIONER                                          | 17039-EK-P-DW-0203-09                                                                                                                                      | N/A                    | DCS | AO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1068                                                                                                                                                                                              | 20-PI-0419A     | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PBA-1070A           | N/A | N/A | 10    | 150 | 5   | 115 | CSC-4 & MPC - 10 | 1/2"NPTM  | SS316                             | * | * | -                                                           | A | - |
| 1069                                                                                                                                                                                              | 20-PT-0420A     | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PBA-1070A           | PSD | AI  | 10    | 150 | 5   | 115 | CSC-4 & MPC - 10 | 1/2"NPTF  | SS316                             | * | * | -                                                           | A | - |
| 1070                                                                                                                                                                                              | 20-FT-1117      | CORIOLIS TYPE FLOW TRANSMITTER                      | 17039-EK-P-DW-0203-09                                                                                                                                      | 3"-PL-20-0457-AC01     | DCS | AI  | 10    | 150 | 5   | 115 | CSC-4 & MPC - 10 | 3"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1071                                                                                                                                                                                              | 20-XS-1070A     | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | PSD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1072                                                                                                                                                                                              | 20-XXS-1070A    | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | ESD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1073                                                                                                                                                                                              | 20-XA-1070A     | FAULT ALARM                                         | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1074                                                                                                                                                                                              | 20-XI-1070A     | RUNNING                                             | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1075                                                                                                                                                                                              | 20-XC-1070A     | START / STOP                                        | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | DCS | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1076                                                                                                                                                                                              | 20-XE-1070A     | AVAILABLE                                           | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1077                                                                                                                                                                                              | 20-XB-1070A     | TRIP FEEDBACK                                       | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1078                                                                                                                                                                                              | 20-PI-0419B     | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | N/A | N/A | 10    | 150 | 5   | 115 | CSC-4 & MPC - 10 | 1/2"NPT   | SS316                             | * | * | -                                                           | A | - |
| 1079                                                                                                                                                                                              | 20-PT-0420B     | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070A          | PSD | AI  | 10    | 150 | 5   | 115 | CSC-4 & MPC - 10 | 1/2"NPTF  | SS316                             | * | * | -                                                           | A | - |
| 1080                                                                                                                                                                                              | 20-XS-1070B     | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070B          | PSD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1081                                                                                                                                                                                              | 20-XXS-1070B    | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070B          | ESD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1082                                                                                                                                                                                              | 20-XA-1070B     | FAULT ALARM                                         | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070B          | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1083                                                                                                                                                                                              | 20-XI-1070B     | RUNNING                                             | 17039-EK-P-DW-0203-09                                                                                                                                      | EK-PM-A-1070B          |     |     |       |     |     |     |                  |           |                                   |   |   |                                                             |   |   |

|                                                                                                                                                                                                   |              |                              |                            |                              |     |     |          |       |     |     |                  |             |                                   |   |   |           |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------|----------------------------|------------------------------|-----|-----|----------|-------|-----|-----|------------------|-------------|-----------------------------------|---|---|-----------|---|---|
| <div><div></div><div></div></div> |              |                              | CLIENT : OIL INDIA LIMITED |                              |     |     |          |       |     |     |                  |             |                                   |   |   | DOC NO. : |   |   |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                 |              |                              |                            |                              |     |     |          |       |     |     |                  |             |                                   |   |   | REV NO. : |   |   |
| DATE :                                                                                                                                                                                            |              |                              |                            |                              |     |     |          |       |     |     |                  |             |                                   |   |   |           |   |   |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                              |                            |                              |     |     |          |       |     |     |                  |             |                                   |   |   |           |   |   |
| 1095                                                                                                                                                                                              | 20-TW-0991   | THERMOWELL                   | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF   | SS316                             | * | * | -         | A | - |
| 1096                                                                                                                                                                                              | 20-TT-0991   | TEMPERATURE TRANSMITTER      | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | DCS | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM    | SS316                             | * | * | -         | A | - |
| 1097                                                                                                                                                                                              | USH-0983A    | FLAME DETECTOR               | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A<br>( TANK ROOF) | PSD | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1098                                                                                                                                                                                              | USH-0983B    | FLAME DETECTOR               | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A<br>( TANK ROOF) | PSD | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1099                                                                                                                                                                                              | USH-0983C    | FLAME DETECTOR               | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A<br>( TANK ROOF) | PSD | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1100                                                                                                                                                                                              | 20-LT-0986   | RADAR TYPE LEVEL TRANSMITTER | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | PSD | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF   | SS316                             | * | * | -         | A | - |
| 1101                                                                                                                                                                                              | 20-LT-0988   | RADAR TYPE LEVEL TRANSMITTER | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | DCS | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF   | SS316                             | * | * | -         | A | - |
| 1102                                                                                                                                                                                              | OSH 0984A    | OPEN PATH TYPE GAS DETECTOR  | 17039-EK-P-DW-0203-10      | N/A                          | PSD | AI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | SS316                             | * | * | -         | A | - |
| 1103                                                                                                                                                                                              | OSH 0984A    | OPEN PATH TYPE GAS DETECTOR  | 17039-EK-P-DW-0203-10      | N/A                          | PSD | AI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | SS316                             | * | * | -         | A | - |
| 1104                                                                                                                                                                                              | 20-TW-0989   | THERMOWELL                   | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF   | SS316                             | * | * | -         | A | - |
| 1105                                                                                                                                                                                              | 20-TI-0989   | TEMPERATURE INDICATOR        | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM    | SS316                             | * | * | -         | A | - |
| 1106                                                                                                                                                                                              | 20-TW-0990A  | THERMOWELL                   | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF   | SS316                             | * | * | -         | A | - |
| 1107                                                                                                                                                                                              | 20-TT-0990A  | TEMPERATURE TRANSMITTER      | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | PSD | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM    | SS316                             | * | * | -         | A | - |
| 1108                                                                                                                                                                                              | 20-TW-0990B  | THERMOWELL                   | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF   | SS316                             | * | * | -         | A | - |
| 1109                                                                                                                                                                                              | 20-TT-0990B  | TEMPERATURE TRANSMITTER      | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | PSD | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM    | SS316                             | * | * | -         | A | - |
| 1110                                                                                                                                                                                              | 20-TW-0990C  | THERMOWELL                   | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF   | SS316                             | * | * | -         | A | - |
| 1111                                                                                                                                                                                              | 20-TT-0990c  | TEMPERATURE TRANSMITTER      | 17039-EK-P-DW-0203-10      | EK-BBJ-1120A                 | PSD | AI  | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM    | SS316                             | * | * | -         | A | - |
| 1112                                                                                                                                                                                              | 20-MOV-0978A | MOTOR OPERATED VALVE         | 17039-EK-P-DW-0203-10      | 3"-PL-20-0816-AC01           | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 3"/2500#RTJ | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |
| 1113                                                                                                                                                                                              | 20-ZSL-0978A | OPEN FEEDBACK                | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1114                                                                                                                                                                                              | 20-ZSH-0978A | CLOSE FEEDBACK               | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1115                                                                                                                                                                                              | 20-SSR-0978A | REMOTE / LOCAL FEEDBACK      | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1116                                                                                                                                                                                              | 20-STR-0978A | OPEN COMMAND                 | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1117                                                                                                                                                                                              | 20-STP-0978A | CLOSE COMMAND                | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1118                                                                                                                                                                                              | 20-XLT-0978A | TRIP                         | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1119                                                                                                                                                                                              | 20-MOV-0979A | MOTOR OPERATED VALVE         | 17039-EK-P-DW-0203-10      | 3"-PL-20-0817-AC01           | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 3"/2500#RTJ | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |
| 1120                                                                                                                                                                                              | 20-ZSL-0979A | OPEN FEEDBACK                | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1121                                                                                                                                                                                              | 20-ZSH-0979A | CLOSE FEEDBACK               | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1122                                                                                                                                                                                              | 20-SSR-0979A | REMOTE / LOCAL FEEDBACK      | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1123                                                                                                                                                                                              | 20-STR-0979A | OPEN COMMAND                 | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1124                                                                                                                                                                                              | 20-STP-0979A | CLOSE COMMAND                | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1125                                                                                                                                                                                              | 20-XLT-0978A | TRIP                         | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1126                                                                                                                                                                                              | 20-MOV-0980  | MOTOR OPERATED VALVE         | 17039-EK-P-DW-0203-10      | 10"-PL-20-0822-AC01          | N/A | N/A | FOW+0.07 | 90    | ATM | 55  | CSC-4 & MPC - 10 | 10"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |
| 1127                                                                                                                                                                                              | 20-ZSL-0980  | OPEN FEEDBACK                | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1128                                                                                                                                                                                              | 20-ZSH-0980  | CLOSE FEEDBACK               | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1129                                                                                                                                                                                              | 20-SSR-0980  | REMOTE / LOCAL FEEDBACK      | 17039-EK-P-DW-0203-10      | N/A                          | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1130                                                                                                                                                                                              | 20-STR-0980  | OPEN COMMAND                 | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1131                                                                                                                                                                                              | 20-STP-0980  | CLOSE COMMAND                | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1132                                                                                                                                                                                              | 20-XLT-0980  | TRIP                         | 17039-EK-P-DW-0203-10      | N/A                          | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1133                                                                                                                                                                                              | 41-XS-1001B  | SHUTDOWN / TRIP              | 17039-EK-P-DW-0203-10      | EK-BBJ-1111                  | PSD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1134                                                                                                                                                                                              | 41-XXS-1001B | SHUTDOWN / TRIP              | 17039-EK-P-DW-0203-10      | EK-BBJ-1111                  | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1135                                                                                                                                                                                              | 41-XA-1001B  | FAULT ALARM                  | 17039-EK-P-DW-0203-10      | EK-BBJ-1111                  | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1136                                                                                                                                                                                              | 41-XI-1001B  | RUNNING                      | 17039-EK-P-DW-0203-10      | EK-BBJ-1111                  | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1137                                                                                                                                                                                              | 41-XC-1001B  | START / STOP                 | 17039-EK-P-DW-0203-10      | EK-BBJ-1111                  | DCS | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1138                                                                                                                                                                                              | 41-XE-1001B  | AVAILABLE                    | 17039-EK-P-DW-0203-10      | EK-BBJ-1111                  | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1139                                                                                                                                                                                              | 41-XB-1001B  | TRIP FEEDBACK                | 17039-EK-P-DW-0203-10      | EK-BBJ-1111                  | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1140                                                                                                                                                                                              | 41-XS-1001C  | SHUTDOWN / TRIP              | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | PSD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1141                                                                                                                                                                                              | 41-XXS-1001C | SHUTDOWN / TRIP              | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | ESD | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1142                                                                                                                                                                                              | 41-XA-1001C  | FAULT ALARM                  | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1143                                                                                                                                                                                              | 41-XI-1001C  | RUNNING                      | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | DCS | DI  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1144                                                                                                                                                                                              | 41-XC-1001C  | START / STOP                 | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | DCS | DO  | N/A      | N/A   | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | -         | A | - |
| 1145                                                                                                                                                                                              | 41-XE-1001C  | AVAILABLE                    | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | DCS | DI  | N/A      | N/A</ |     |     |                  |             |                                   |   |   |           |   |   |

|                                                                                                                                                                                                                                                                                                                                                     |              |                                |                            |                              |     |     |          |     |     |     |                  |            |                                   |   |   |           |           |   |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|----------------------------|------------------------------|-----|-----|----------|-----|-----|-----|------------------|------------|-----------------------------------|---|---|-----------|-----------|---|--|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>(an enterprise of India Enterprise)</small></div></div></div> |              |                                | CLIENT : OIL INDIA LIMITED |                              |     |     |          |     |     |     |                  |            |                                   |   |   | DOC NO. : |           |   |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                   |              |                                |                            |                              |     |     |          |     |     |     |                  |            |                                   |   |   |           | REV NO. : |   |  |  |
|                                                                                                                                                                                                                                                                                                                                                     |              |                                |                            |                              |     |     |          |     |     |     |                  |            |                                   |   |   |           | DATE :    |   |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |              |                                |                            |                              |     |     |          |     |     |     |                  |            |                                   |   |   |           |           |   |  |  |
| 1154                                                                                                                                                                                                                                                                                                                                                | 20-TY-0992   | POSITIONER                     | 17039-EK-P-DW-0203-11      | N/A                          | DCS | AO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1155                                                                                                                                                                                                                                                                                                                                                | 20-TW-0992   | THERMOWELL                     | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF  | SS316                             | * | * | -         | A         | - |  |  |
| 1156                                                                                                                                                                                                                                                                                                                                                | 20-TT-0992   | TEMPERATURE TRANSMITTER        | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | DCS | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM   | SS316                             | * | * | -         | A         | - |  |  |
| 1157                                                                                                                                                                                                                                                                                                                                                | USH-0983A    | FLAME DETECTOR                 | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B<br>( TANK ROOF) | PSD | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1158                                                                                                                                                                                                                                                                                                                                                | USH-0983B    | FLAME DETECTOR                 | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B<br>( TANK ROOF) | PSD | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1159                                                                                                                                                                                                                                                                                                                                                | USH-0983C    | FLAME DETECTOR                 | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B<br>( TANK ROOF) | PSD | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1160                                                                                                                                                                                                                                                                                                                                                | 20-LT-0986   | RADAR TYPE LEVEL TRANSMITTER   | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | PSD | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 2"/150#RF  | SS316                             | * | * | -         | A         | - |  |  |
| 1161                                                                                                                                                                                                                                                                                                                                                | 20-LT-0988   | RADAR TYPE LEVEL TRANSMITTER   | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | DCS | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTF   | SS316                             | * | * | -         | A         | - |  |  |
| 1162                                                                                                                                                                                                                                                                                                                                                | OSH 1000A    | OPEN PATH TYPE GAS DETECTOR    | 17039-EK-P-DW-0203-11      | N/A                          | PSD | AI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | SS316                             | * | * | -         | A         | - |  |  |
| 1163                                                                                                                                                                                                                                                                                                                                                | OSH 1000B    | OPEN PATH TYPE GAS DETECTOR    | 17039-EK-P-DW-0203-11      | N/A                          | PSD | AI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | SS316                             | * | * | -         | A         | - |  |  |
| 1164                                                                                                                                                                                                                                                                                                                                                | 20-TW-0997   | THERMOWELL                     | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF  | SS316                             | * | * | -         | A         | - |  |  |
| 1165                                                                                                                                                                                                                                                                                                                                                | 20-TI-0997   | TEMPERATURE INDICATOR          | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM   | SS316                             | * | * | -         | A         | - |  |  |
| 1166                                                                                                                                                                                                                                                                                                                                                | 20-TW-0998A  | THERMOWELL                     | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF  | SS316                             | * | * | -         | A         | - |  |  |
| 1167                                                                                                                                                                                                                                                                                                                                                | 20-TT-0998A  | TEMPERATURE TRANSMITTER        | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | PSD | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM   | SS316                             | * | * | -         | A         | - |  |  |
| 1168                                                                                                                                                                                                                                                                                                                                                | 20-TW-0998B  | THERMOWELL                     | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF  | SS316                             | * | * | -         | A         | - |  |  |
| 1169                                                                                                                                                                                                                                                                                                                                                | 20-TT-0998B  | TEMPERATURE TRANSMITTER        | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | PSD | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM   | SS316                             | * | * | -         | A         | - |  |  |
| 1170                                                                                                                                                                                                                                                                                                                                                | 20-TW-0998C  | THERMOWELL                     | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 2"/300#RF  | SS316                             | * | * | -         | A         | - |  |  |
| 1171                                                                                                                                                                                                                                                                                                                                                | 20-TT-0998C  | TEMPERATURE TRANSMITTER        | 17039-EK-P-DW-0203-11      | EK-BBJ-1120B                 | PSD | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM   | SS316                             | * | * | -         | A         | - |  |  |
| 1172                                                                                                                                                                                                                                                                                                                                                | 20-MOV-0978B | MOTOR OPERATED VALVE           | 17039-EK-P-DW-0203-11      | 3"-PL-20-0376-AC01           | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 3"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 1173                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-0978B | OPEN FEEDBACK                  | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1174                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-0978B | CLOSE FEEDBACK                 | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1175                                                                                                                                                                                                                                                                                                                                                | 20-SSR-0978B | REMOTE / LOCAL FEEDBACK        | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1176                                                                                                                                                                                                                                                                                                                                                | 20-STR-0978B | OPEN COMMAND                   | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1177                                                                                                                                                                                                                                                                                                                                                | 20-STP-0978B | CLOSE COMMAND                  | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1178                                                                                                                                                                                                                                                                                                                                                | 20-XLT-0978B | TRIP                           | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1179                                                                                                                                                                                                                                                                                                                                                | 20-MOV-0979B | MOTOR OPERATED VALVE           | 17039-EK-P-DW-0203-11      | 3"-PL-20-0820-AC01           | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 3"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 1180                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-0979B | OPEN FEEDBACK                  | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1181                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-0979B | CLOSE FEEDBACK                 | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1182                                                                                                                                                                                                                                                                                                                                                | 20-SSR-0979B | REMOTE / LOCAL FEEDBACK        | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1183                                                                                                                                                                                                                                                                                                                                                | 20-STR-0979B | OPEN COMMAND                   | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1184                                                                                                                                                                                                                                                                                                                                                | 20-STP-0979B | CLOSE COMMAND                  | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1185                                                                                                                                                                                                                                                                                                                                                | 20-SDV-0982B | SHUTDOWN VALVE                 | 17039-EK-P-DW-0203-11      | 4"-PL-20-0818-AC01           | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 4"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 1186                                                                                                                                                                                                                                                                                                                                                | 20-XLT-0982B | TRIP                           | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1187                                                                                                                                                                                                                                                                                                                                                | 20-MOV-0981  | MOTOR OPERATED VALVE           | 17039-EK-P-DW-0203-11      | 10"-PL-20-0825-AC01          | N/A | N/A | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 10"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 1188                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-0981  | OPEN FEEDBACK                  | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1189                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-0981  | CLOSE FEEDBACK                 | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1190                                                                                                                                                                                                                                                                                                                                                | 20-SSR-0981  | REMOTE / LOCAL FEEDBACK        | 17039-EK-P-DW-0203-11      | N/A                          | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1191                                                                                                                                                                                                                                                                                                                                                | 20-STR-0981  | OPEN COMMAND                   | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1192                                                                                                                                                                                                                                                                                                                                                | 20-STP-0981  | CLOSE COMMAND                  | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1193                                                                                                                                                                                                                                                                                                                                                | 20-XLT-0981  | TRIP                           | 17039-EK-P-DW-0203-11      | N/A                          | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1194                                                                                                                                                                                                                                                                                                                                                | 20-FV-1012A  | FLOW CONTROL VALVE             | 17039-EK-P-DW-0203-12      | 2"-PL-20-0841A-AC01          | N/A | N/A | 15       | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 1195                                                                                                                                                                                                                                                                                                                                                | 20-FY-1012A  | POSITIONER                     | 17039-EK-P-DW-0203-12      | N/A                          | DCS | AO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1196                                                                                                                                                                                                                                                                                                                                                | 20-FT-1012A  | CORIOLIS TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0203-12      | 3"-PL-20-0838-AC01           | DCS | AI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | 3"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 1197                                                                                                                                                                                                                                                                                                                                                | 20-PI-1010A  | PRESSURE INDICATOR             | 17039-EK-P-DW-0203-12      | 3"-PL-20-0838-AC01           | N/A | N/A | 15       | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1/2"NPTM   | SS316                             | * | * | -         | A         | - |  |  |
| 1198                                                                                                                                                                                                                                                                                                                                                | 20-PT-1011A  | PRESSURE TRANSMITTER           | 17039-EK-P-DW-0203-12      | 3"-PL-20-0838-AC01           | PSD | AI  | 15       | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1/2"NPTF   | SS316                             | * | * | -         | A         | - |  |  |
| 1199                                                                                                                                                                                                                                                                                                                                                | 20-FV-1012B  | FLOW CONTROL VALVE             | 17039-EK-P-DW-0203-12      | 2"-PL-20-0841A-AC01          | N/A | N/A | 15       | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 1200                                                                                                                                                                                                                                                                                                                                                | 20-FY-1012B  | POSITIONER                     | 17039-EK-P-DW-0203-12      | N/A                          | DCS | AO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1201                                                                                                                                                                                                                                                                                                                                                | 20-FT-1012A  | CORIOLIS TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0203-12      | 3"-PL-20-0838-AC01           | DCS | AI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | 3"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |  |
| 1202                                                                                                                                                                                                                                                                                                                                                | 20-XS-1130A  | SHUTDOWN / TRIP                | 17039-EK-P-DW-0203-12      | EK-PM-1130A(MCC)             | PSD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1203                                                                                                                                                                                                                                                                                                                                                | 20-XXS-1130A | SHUTDOWN / TRIP                | 17039-EK-P-DW-0203-12      | EK-PM-1130A(MCC)             | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * | -         | A         | - |  |  |
| 1204                                                                                                                                                                                                                                                                                                                                                | 20-XA-1130A  | FAULT ALARM                    | 17039-EK-P-DW-0203-12      | EK-PM-1130A(MCC)             | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A        | N/A                               | * | * |           |           |   |  |  |

|                                                                                                                                                                                                   |              |                                |                                                                                                                                                            |                     |     |     |     |     |     |     |                  |                              |                                   |   |   |                                                             |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|-----|-----|-----|-----|-----|------------------|------------------------------|-----------------------------------|---|---|-------------------------------------------------------------|---|---|
| <div><div></div><div></div></div> |              |                                | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                     |     |     |     |     |     |     |                  |                              |                                   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |   |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                                |                                                                                                                                                            |                     |     |     |     |     |     |     |                  |                              |                                   |   |   |                                                             |   |   |
| 1212                                                                                                                                                                                              | 20-XXS-1130B | SHUTDOWN / TRIP                | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130B(MCC)    | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1213                                                                                                                                                                                              | 20-XA-1130B  | FAULT ALARM                    | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130B(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1214                                                                                                                                                                                              | 20-XI-1130B  | RUNNING                        | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130B(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1215                                                                                                                                                                                              | 20-XC-1130B  | START / STOP                   | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130B(MCC)    | DCS | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1216                                                                                                                                                                                              | 20-XE-1130B  | AVAILABLE                      | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130B(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1217                                                                                                                                                                                              | 20-XB-1130B  | TRIP FEEDBACK                  | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130B(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1218                                                                                                                                                                                              | 20-FV-1012C  | FLOW CONTROL VALVE             | 17039-EK-P-DW-0203-12                                                                                                                                      | 2"-PL-20-0891-AC01  | N/A | N/A | 15  | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1 1/150#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1219                                                                                                                                                                                              | 20-FY-1012C  | POSITIONER                     | 17039-EK-P-DW-0203-12                                                                                                                                      | N/A                 | DCS | AO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1220                                                                                                                                                                                              | 20-FT-1012C  | CORIOLIS TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0203-12                                                                                                                                      | 3"-PL-20-0839-BC01  | DCS | AI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | 3 1/150#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1221                                                                                                                                                                                              | 20-PI-1010C  | PRESSURE INDICATOR             | 17039-EK-P-DW-0203-12                                                                                                                                      | 3"-PL-20-0839-BC01  | N/A | N/A | 15  | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1/2"NPTM                     | SS316                             | * | * | -                                                           | A | - |
| 1222                                                                                                                                                                                              | 20-PT-1011C  | PRESSURE TRANSMITTER           | 17039-EK-P-DW-0203-12                                                                                                                                      | 3"-PL-20-0839-BC01  | PSD | AI  | 15  | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1/2"NPTF                     | SS316                             | * | * | -                                                           | A | - |
| 1223                                                                                                                                                                                              | 20-XS-1130C  | SHUTDOWN / TRIP                | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130C(MCC)    | PSD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1224                                                                                                                                                                                              | 20-XXS-1130C | SHUTDOWN / TRIP                | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130C(MCC)    | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1225                                                                                                                                                                                              | 20-XA-1130C  | FAULT ALARM                    | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130C(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1226                                                                                                                                                                                              | 20-XI-1130C  | RUNNING                        | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130C(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1227                                                                                                                                                                                              | 20-XC-1130C  | START / STOP                   | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130C(MCC)    | DCS | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1228                                                                                                                                                                                              | 20-XE-1130C  | AVAILABLE                      | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130C(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1229                                                                                                                                                                                              | 20-XB-1130C  | TRIP FEEDBACK                  | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130C(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1230                                                                                                                                                                                              | 20-PI-1010D  | PRESSURE INDICATOR             | 17039-EK-P-DW-0203-12                                                                                                                                      | 3"-PL-20-0840-AC01  | N/A | N/A | 15  | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1/2"NPTM                     | SS316                             | * | * | -                                                           | A | - |
| 1231                                                                                                                                                                                              | 20-PT-1011D  | PRESSURE TRANSMITTER           | 17039-EK-P-DW-0203-12                                                                                                                                      | 3"-PL-20-0840-AC01  | PSD | AI  | 15  | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1/2"NPTF                     | SS316                             | * | * | -                                                           | A | - |
| 1232                                                                                                                                                                                              | 20-FV-1012D  | FLOW CONTROL VALVE             | 17039-EK-P-DW-0203-12                                                                                                                                      | 4"-PL-20-0841D-BC01 | N/A | N/A | 15  | 90  | 10  | 56  | CSC-4 & MPC - 10 | 1 1/150#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1233                                                                                                                                                                                              | 20-FY-1012D  | POSITIONER                     | 17039-EK-P-DW-0203-12                                                                                                                                      | N/A                 | DCS | AO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1234                                                                                                                                                                                              | 20-FT-1012D  | CORIOLIS TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0203-12                                                                                                                                      | 3"-PL-20-0839-BC01  | DCS | AI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | 3 1/150#RF                   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1235                                                                                                                                                                                              | 20-XS-1130D  | SHUTDOWN / TRIP                | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130D(MCC)    | PSD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | SS316                             | * | * | -                                                           | A | - |
| 1236                                                                                                                                                                                              | 20-XXS-1130D | SHUTDOWN / TRIP                | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130D(MCC)    | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | SS316                             | * | * | -                                                           | A | - |
| 1237                                                                                                                                                                                              | 20-XA-1130D  | FAULT ALARM                    | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130D(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1238                                                                                                                                                                                              | 20-XI-1130D  | RUNNING                        | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130D(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1239                                                                                                                                                                                              | 20-XC-1130D  | START / STOP                   | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130D(MCC)    | DCS | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | SS316                             | * | * | -                                                           | A | - |
| 1240                                                                                                                                                                                              | 20-XE-1130D  | AVAILABLE                      | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130D(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1241                                                                                                                                                                                              | 20-XB-1130D  | TRIP FEEDBACK                  | 17039-EK-P-DW-0203-12                                                                                                                                      | EK-PM-1130D(MCC)    | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | SS316                             | * | * | -                                                           | A | - |
| 1242                                                                                                                                                                                              | 20-MOV-1013A | MOTOR OPERATED VALVE           | 17039-EK-P-DW-0203-13                                                                                                                                      | 4"-PL-20-0842-DC01  | N/A | N/A | 100 | 90  | 85  | 56  | CSC-4 & MPC - 10 | 4 7/900#RTJ                  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1243                                                                                                                                                                                              | 20-ZSL-1013A | OPEN FEEDBACK                  | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1244                                                                                                                                                                                              | 20-ZSH-1013A | CLOSE FEEDBACK                 | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1245                                                                                                                                                                                              | 20-SSR-1013A | REMOTE / LOCAL FEEDBACK        | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1246                                                                                                                                                                                              | 20-STR-1013A | OPEN COMMAND                   | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1247                                                                                                                                                                                              | 20-STP-1013A | CLOSE COMMAND                  | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1248                                                                                                                                                                                              | 20-XLT-1013A | TRIP                           | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1249                                                                                                                                                                                              | 20-PI-1014A  | PRESSURE INDICATOR             | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-0845-DC01  | N/A | N/A | 100 | 90  | 85  | 56  | CSC-4 & MPC - 10 | 1/2"NPTM                     | SS316                             | * | * | -                                                           | A | - |
| 1250                                                                                                                                                                                              | 20-PT-1015A  | PRESSURE TRANSMITTER           | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-0845-DC01  | PSD | AI  | 100 | 90  | 85  | 56  | CSC-4 & MPC - 10 | 1/2"NPTF                     | SS316                             | * | * | -                                                           | A | - |
| 1251                                                                                                                                                                                              | 20-PSV-0933A | PRESSURE SAFETY VALVE          | 17039-EK-P-DW-0203-13                                                                                                                                      | 2"-PL-20-0850-DC01  | N/A | N/A | 100 | 90  | 85  | 56  | CSC-4 & MPC - 10 | 1 1/2 1/900#RTJ D 2 7/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1252                                                                                                                                                                                              | 20-MOV-1016A | MOTOR OPERATED VALVE           | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-0845-DC01  | N/A | N/A | 100 | 90  | 85  | 56  | CSC-4 & MPC - 10 | 3 7/900#RTJ                  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1253                                                                                                                                                                                              | 20-TSC-1016A | OPEN FEEDBACK                  | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1254                                                                                                                                                                                              | 20-TSO-1016A | CLOSE FEEDBACK                 | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1255                                                                                                                                                                                              | 20-ZSL-1016A | REMOTE / LOCAL FEEDBACK        | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1256                                                                                                                                                                                              | 20-ZSH-1016A | OPEN COMMAND                   | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1257                                                                                                                                                                                              | 20-SSR-1016A | CLOSE COMMAND                  | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1258                                                                                                                                                                                              | 20-XLT-1016A | TRIP                           | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | ESD | DO  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |
| 1259                                                                                                                                                                                              | 20-MOV-1013B | MOTOR OPERATED VALVE           | 17039-EK-P-DW-0203-13                                                                                                                                      | 4"-PL-20-0843-DC01  | N/A | N/A | 100 | 90  | 85  | 56  | CSC-4 & MPC - 10 | 4 7/900#RTJ                  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1260                                                                                                                                                                                              | 20-ZSL-1013B | OPEN FEEDBACK                  | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                 | DCS | DI  | N/A | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                          | N/A                               | * | * | -                                                           | A | - |

|                                                                                                                         |              |                              |                                                                                                                                                            |                        |     |     |          |     |     |         |                  |                            |                                   |   |                                                             |   |   |   |
|-------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|----------|-----|-----|---------|------------------|----------------------------|-----------------------------------|---|-------------------------------------------------------------|---|---|---|
| <div><div>Oil India Limited</div></div> |              |                              | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                        |     |     |          |     |     |         |                  |                            |                                   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |   |   |
| INSTRUMENT INDEX                                                                                                        |              |                              |                                                                                                                                                            |                        |     |     |          |     |     |         |                  |                            |                                   |   |                                                             |   |   |   |
| 1273                                                                                                                    | 20-STR-1016B | OPEN COMMAND                 | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1274                                                                                                                    | 20-STP-1016B | CLOSE COMMAND                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1275                                                                                                                    | 20-XLT-1016B | TRIP                         | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1276                                                                                                                    | 20-MOV-1013C | MOTOR OPERATED VALVE         | 17039-EK-P-DW-0203-13                                                                                                                                      | 4"-PL-20-0844-DC01     | N/A | N/A | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 4"/900#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1277                                                                                                                    | 20-ZSL-1013C | OPEN FEEDBACK                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1278                                                                                                                    | 20-ZSH-1013C | CLOSE FEEDBACK               | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1279                                                                                                                    | 20-SSR-1013C | REMOTE / LOCAL FEEDBACK      | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1280                                                                                                                    | 20-STR-1013C | OPEN COMMAND                 | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1281                                                                                                                    | 20-STP-1013C | CLOSE COMMAND                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1282                                                                                                                    | 20-XLT-1013C | TRIP                         | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1283                                                                                                                    | 20-PI-1014C  | PRESSURE INDICATOR           | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-0847-DC01     | N/A | N/A | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 1/2"NPTM                   | SS316                             | * | *                                                           | - | A | - |
| 1284                                                                                                                    | 20-PT-1015C  | PRESSURE TRANSMITTER         | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-0847-DC01     | PSD | AI  | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 1/2"NPTF                   | SS316                             | * | *                                                           | - | A | - |
| 1285                                                                                                                    | 20-PSV-0933C | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0203-13                                                                                                                                      | 2"-PL-20-0852-DC01     | N/A | N/A | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 1 1/2"/900#RTJ D 2"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1286                                                                                                                    | 20-MOV-1016C | MOTOR OPERATED VALVE         | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-0847-DC01     | N/A | N/A | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 3"/900#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1287                                                                                                                    | 20-ZSL-1016C | OPEN FEEDBACK                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1288                                                                                                                    | 20-ZSH-1016C | CLOSE FEEDBACK               | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1289                                                                                                                    | 20-SSR-1016C | REMOTE / LOCAL FEEDBACK      | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1290                                                                                                                    | 20-STR-1016C | OPEN COMMAND                 | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1291                                                                                                                    | 20-STP-1016C | CLOSE COMMAND                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1292                                                                                                                    | 20-XLT-1016C | TRIP                         | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1293                                                                                                                    | 20-MOV-1013D | MOTOR OPERATED VALVE         | 17039-EK-P-DW-0203-13                                                                                                                                      | 4"-PL-20-8641-DC01     | N/A | N/A | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 4"/900#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1294                                                                                                                    | 20-ZSL-1013D | OPEN FEEDBACK                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1295                                                                                                                    | 20-ZSH-1013D | CLOSE FEEDBACK               | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1296                                                                                                                    | 20-SSR-1013D | REMOTE / LOCAL FEEDBACK      | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1297                                                                                                                    | 20-STR-1013D | OPEN COMMAND                 | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1298                                                                                                                    | 20-STP-1013D | CLOSE COMMAND                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1299                                                                                                                    | 20-XLT-1013D | TRIP                         | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1300                                                                                                                    | 20-PI-1014D  | PRESSURE INDICATOR           | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-8642-DC01     | N/A | N/A | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 1/2"NPTM                   | SS316                             | * | *                                                           | - | A | - |
| 1301                                                                                                                    | 20-PT-1015D  | PRESSURE TRANSMITTER         | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-8642-DC01     | PSD | AI  | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 1/2"NPTF                   | SS316                             | * | *                                                           | - | A | - |
| 1302                                                                                                                    | 20-PSV-0933D | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0203-13                                                                                                                                      | 2"-PL-20-8643-DC01     | N/A | N/A | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 1 1/2"/900#RTJ D 2"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1303                                                                                                                    | 20-MOV-1016D | MOTOR OPERATED VALVE         | 17039-EK-P-DW-0203-13                                                                                                                                      | 3"-PL-20-8642-DC01     | N/A | N/A | 100      | 90  | 85  | 56      | CSC-4 & MPC - 10 | 3"/900#RTJ                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1304                                                                                                                    | 20-ZSL-1016D | OPEN FEEDBACK                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1305                                                                                                                    | 20-ZSH-1016D | CLOSE FEEDBACK               | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1306                                                                                                                    | 20-SSR-1016D | REMOTE / LOCAL FEEDBACK      | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1307                                                                                                                    | 20-STR-1016D | OPEN COMMAND                 | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1308                                                                                                                    | 20-STP-1016D | CLOSE COMMAND                | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1309                                                                                                                    | 20-XLT-1016D | TRIP                         | 17039-EK-P-DW-0203-13                                                                                                                                      | N/A                    | ESD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1310                                                                                                                    | 42-FI-2411   | FLOW INDICATOR               | 17039-EK-P-DW-0203-13                                                                                                                                      | 1/2"-CK-42-3865-GT20   | N/A | N/A | 110      | 80  | 95  | AMBIENT | CSC-4 & MPC - 10 | 1/2"NPT                    | SS316                             | * | *                                                           | - | A | - |
| 1311                                                                                                                    | 42-FI-2412   | FLOW INDICATOR               | 17039-EK-P-DW-0203-13                                                                                                                                      | 1/2"-CK-42-3865-GT20   | N/A | N/A | 110      | 80  | 95  | AMBIENT | CSC-4 & MPC - 10 | 1/2"NPT                    | SS316                             | * | *                                                           | - | A | - |
| 1312                                                                                                                    | 41-PSV-0121A | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0203-14                                                                                                                                      | 2"-HM-41-3671-BC01-1N  | N/A | N/A | 12/FV    | 250 | 5.5 | 200     | CSC-4 & MPC - 10 | 1" D 2"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1313                                                                                                                    | 41-PSV-0121B | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0203-14                                                                                                                                      | 2"-HM-41-3671A-BC01-1N | N/A | N/A | 12/FV    | 250 | 5.5 | 200     | CSC-4 & MPC - 10 | 1" D 2"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1314                                                                                                                    | 41-SDV-3668  | SHUTDOWN VALVE               | 17039-EK-P-DW-0203-14                                                                                                                                      | 3"-HM-41-8611-BC01-1N  | N/A | N/A | FOW+0.07 | 90  | ATM | 55      | CSC-4 & MPC - 10 | 3"/300#RF                  | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1315                                                                                                                    | 41-SXV-3668  | SOLENOID VALVE               | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                    | PSD | DO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | SS316                             | * | *                                                           | - | A | - |
| 1316                                                                                                                    | 41-ZSL-3668  | POSITION SWITCH LOW          | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1317                                                                                                                    | 41-ZSH-3668  | POSITION SWITCH HIGH         | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1318                                                                                                                    | 20-TV-0431   | TEMPERATURE CONTROL VALVE    | 17039-EK-P-DW-0203-14                                                                                                                                      | 3"-HM-41-3670-BC01-1N  | N/A | N/A | FOW+0.07 | 90  | ATM | 55      | CSC-4 & MPC - 10 | 2"/300#RF                  | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1319                                                                                                                    | 20-TY-0431   | POSITIONER                   | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                    | DCS | AO  | N/A      | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A                        | N/A                               | * | *                                                           | - | A | - |
| 1320                                                                                                                    | 20-TW-0431   | THERMOWELL                   | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090            | N/A | N/A | FOW+0.07 | 90  | ATM | 55      | CSC-4 & MPC - 10 | 2"/300#RF                  | SS316                             | * | *                                                           | - | A | - |
| 1321                                                                                                                    | 20-TT-0431   | TEMPERATURE TRANSMITTER      | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090            | DCS | AI  | FOW+0.07 | 90  | ATM | 55      | CSC-4 & MPC - 10 | 1/2"NPTM                   | SS316                             | * | *                                                           | - | A | - |
| 1322                                                                                                                    | 20-PVSV-0429 | PRESSURE VACUUM SAFETY VALVE | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090            | N/A | N/A | FOW+0.07 | 90  | ATM | 55      | CSC-4 & MPC - 10 | 6"/150#RF                  | BODY: CARBON STEEL<br>TRIM: SS316 | * | *                                                           | - | A | - |
| 1323                                                                                                                    | 20-LIT-0423  | RADAR TYPE LEVEL TRANSMITTER | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090            | PSD | AI  | FOW+0.07 | 90  | ATM | 55      | CSC-4 & MPC - 10 | 1/2"NPTF                   | SS316                             | * | *                                                           | - | A | - |
| 1324                                                                                                                    | 20-ILIT-0424 | RADAR TYPE LEVEL TRANSMITTER | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1120B           | DCS | AI  | FOW+0.07 | 90  | ATM | 55      | CSC-4 & MPC - 10 | 1/2"NPTF                   | SS316                             | * | *                                                           | - | A | - |

|                                                                                                                                                                                                   |              |                                 |                                                                                                                                                            |                    |     |     |          |     |     |     |                  |             |                                   |   |   |   |                                                             |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|-----|----------|-----|-----|-----|------------------|-------------|-----------------------------------|---|---|---|-------------------------------------------------------------|---|--|
| <div><div></div><div></div></div> |              |                                 | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                    |     |     |          |     |     |     |                  |             |                                   |   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                                 |                                                                                                                                                            |                    |     |     |          |     |     |     |                  |             |                                   |   |   |   |                                                             |   |  |
| 1332                                                                                                                                                                                              | 20-TT-0428C  | TEMPERATURE TRANSMITTER         | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1120B       | PSD | AI  | FOW+0.07 | 90  | ATM | 55  | CSC-4 & MPC - 10 | 1/2"NPTM    | SS316                             | * | * | - | A                                                           | - |  |
| 1333                                                                                                                                                                                              | 20-MOV-1119  | MOTOR OPERATED VALVE            | 17039-EK-P-DW-0203-14                                                                                                                                      | 6"-PL-20-0458-FC01 | N/A | N/A | 100      | 90  | 85  | 56  | CSC-4 & MPC - 10 | 6"/2500#RTJ | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 1334                                                                                                                                                                                              | 20-ZSL-1119  | OPEN FEEDBACK                   | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1335                                                                                                                                                                                              | 20-ZSH-1119  | CLOSE FEEDBACK                  | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1336                                                                                                                                                                                              | 20-SSR-1119  | REMOTE / LOCAL FEEDBACK         | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1337                                                                                                                                                                                              | 20-STR-1119  | OPEN COMMAND                    | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1338                                                                                                                                                                                              | 20-STP-1119  | CLOSE COMMAND                   | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1339                                                                                                                                                                                              | 20-XLT-1119  | TRIP                            | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1340                                                                                                                                                                                              | 20-MOV-1120  | MOTOR OPERATED VALVE            | 17039-EK-P-DW-0203-14                                                                                                                                      | 8"-PL-20-0459-AC01 | N/A | N/A | 100      | 90  | 85  | 56  | CSC-4 & MPC - 10 | 8"/2500#RTJ | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 1341                                                                                                                                                                                              | 20-ZSL-1120  | OPEN FEEDBACK                   | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1342                                                                                                                                                                                              | 20-ZSH-1120  | CLOSE FEEDBACK                  | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1343                                                                                                                                                                                              | 20-SSR-1120  | REMOTE / LOCAL FEEDBACK         | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1344                                                                                                                                                                                              | 20-STR-1120  | OPEN COMMAND                    | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1345                                                                                                                                                                                              | 20-STP-1120  | CLOSE COMMAND                   | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1346                                                                                                                                                                                              | 20-XLT-1120  | TRIP                            | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1347                                                                                                                                                                                              | 20-MOV-1119  | MOTOR OPERATED VALVE            | 17039-EK-P-DW-0203-14                                                                                                                                      | 3"-PL-20-0459-AC01 | N/A | N/A | 100      | 90  | 85  | 56  | CSC-4 & MPC - 10 | 3"/150#RF   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 1348                                                                                                                                                                                              | 20-ZSL-1119  | OPEN FEEDBACK                   | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1349                                                                                                                                                                                              | 20-ZSH-1119  | CLOSE FEEDBACK                  | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1350                                                                                                                                                                                              | 20-SSR-1119  | REMOTE / LOCAL FEEDBACK         | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1351                                                                                                                                                                                              | 20-STR-1119  | OPEN COMMAND                    | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1352                                                                                                                                                                                              | 20-STP-1119  | CLOSE COMMAND                   | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1353                                                                                                                                                                                              | 20-XLT-1119  | TRIP                            | 17039-EK-P-DW-0203-14                                                                                                                                      | N/A                | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1354                                                                                                                                                                                              | 41-XS-1001D  | SHUTDOWN / TRIP                 | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090        | PSD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1355                                                                                                                                                                                              | 41-XXS-1001D | SHUTDOWN / TRIP                 | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090        | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1356                                                                                                                                                                                              | 41-XA-1001D  | FAULT ALARM                     | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1357                                                                                                                                                                                              | 41-XI-1001D  | RUNNING                         | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1358                                                                                                                                                                                              | 41-XC-1001D  | START / STOP                    | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090        | DCS | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1359                                                                                                                                                                                              | 41-XE-1001D  | AVAILABLE                       | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1360                                                                                                                                                                                              | 41-XB-1001D  | TRIP FEEDBACK                   | 17039-EK-P-DW-0203-14                                                                                                                                      | EK-BBJ-1090        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1361                                                                                                                                                                                              | 20-FV-0475   | FLOW CONTROL VALVE              | 17039-EK-P-DW-0203-15                                                                                                                                      | 3"-PL-20-0390-BC01 | N/A | N/A | 10       | 90  | 5   | 55  | CSC-4 & MPC - 10 | 2"/300#RF   | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 1362                                                                                                                                                                                              | 20-FY-0475   | POSITIONER                      | 17039-EK-P-DW-0203-15                                                                                                                                      | N/A                | DCS | AO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1363                                                                                                                                                                                              | 20-PI-0471A  | PRESSURE INDICATOR              | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100A        | N/A | N/A | 10       | 90  | 5   | 55  | CSC-4 & MPC - 10 | 1/2"NPTM    | SS316                             | * | * | - | A                                                           | - |  |
| 1364                                                                                                                                                                                              | 20-PT-0472A  | PRESSURE TRANSMITTER            | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100A        | PSD | AI  | 10       | 90  | 5   | 55  | CSC-4 & MPC - 10 | 1/2"NPTF    | SS316                             | * | * | - | A                                                           | - |  |
| 1365                                                                                                                                                                                              | 20-FT-0475   | CORIO LIS TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0203-15                                                                                                                                      | 6"-PL-20-0393-BC01 | DCS | AI  | 10       | 90  | 5   | 55  | CSC-4 & MPC - 10 | 6"/300#RF   | SS316                             | * | * | - | A                                                           | - |  |
| 1366                                                                                                                                                                                              | 20-XS-1100A  | SHUTDOWN / TRIP                 | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100A        | PSD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1367                                                                                                                                                                                              | 20-XXS-1100A | SHUTDOWN / TRIP                 | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100A        | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1368                                                                                                                                                                                              | 20-XA-1100A  | FAULT ALARM                     | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100A        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1369                                                                                                                                                                                              | 20-XI-1100A  | RUNNING                         | 17039-EK-P-DW-0203-15                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1370                                                                                                                                                                                              | 20-XC-1100A  | START / STOP                    | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100A        | DCS | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1371                                                                                                                                                                                              | 20-XE-1100A  | AVAILABLE                       | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100A        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1372                                                                                                                                                                                              | 20-XB-1100A  | TRIP FEEDBACK                   | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100A        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1373                                                                                                                                                                                              | 20-PI-0471B  | PRESSURE INDICATOR              | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100B        | N/A | N/A | 10       | 90  | 5   | 55  | CSC-4 & MPC - 10 | 1/2"NPTM    | SS316                             | * | * | - | A                                                           | - |  |
| 1374                                                                                                                                                                                              | 20-PT-0472B  | PRESSURE TRANSMITTER            | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100B        | PSD | AI  | 10       | 90  | 5   | 55  | CSC-4 & MPC - 10 | 1/2"NPTF    | SS316                             | * | * | - | A                                                           | - |  |
| 1375                                                                                                                                                                                              | 20-XS-1100B  | SHUTDOWN / TRIP                 | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100B        | PSD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1376                                                                                                                                                                                              | 20-XXS-1100B | SHUTDOWN / TRIP                 | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100B        | ESD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1377                                                                                                                                                                                              | 20-XA-1100B  | FAULT ALARM                     | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100B        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1378                                                                                                                                                                                              | 20-XI-1100B  | RUNNING                         | 17039-EK-P-DW-0203-15                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1379                                                                                                                                                                                              | 20-XC-1100B  | START / STOP                    | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100B        | DCS | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1380                                                                                                                                                                                              | 20-XE-1100B  | AVAILABLE                       | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100B        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1381                                                                                                                                                                                              | 20-XB-1100B  | TRIP FEEDBACK                   | 17039-EK-P-DW-0203-15                                                                                                                                      | EK-PM-1100B        | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1382                                                                                                                                                                                              | 20-FIT-1019  | CORIO LIS TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0203-16                                                                                                                                      | 4"-PL-20-0856-DC01 | DCS | AI  | 100      | 90  | 85  | 57  | CSC-4 & MPC - 10 | 4"/900#RTJ  | SS316                             | * | * | - | A                                                           | - |  |
| 1383                                                                                                                                                                                              | 20-FIT-1031  | CORIO LIS TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0203-16                                                                                                                                      | 4"-PL-20-0857-DC01 | DCS | AI  | 100      | 90  | 85  | 57  | CSC-4 & MPC - 10 | 4"/900#RTJ  | SS316                             | * | * | - | A                                                           | - |  |
| 1384                                                                                                                                                                                              | 20-SDV-1051  | SHUTDOWN VALVE                  | 17039-EK-P-DW-0203-16                                                                                                                                      | 4"-PL-20-0861-DC01 | N/A | N/A | 100      | 90  | 85  | 57  | CSC-4 & MPC - 10 | 4"/900#RTJ  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 1385                                                                                                                                                                                              | 20-SXV-1051  | SOLENOID VALVE                  | 17039-EK-P-DW-0203-16                                                                                                                                      | N/A                | PSD | DO  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | SS316                             | * | * | - | A                                                           | - |  |
| 1386                                                                                                                                                                                              | 20-ZSH-1051  | POSITION SWITCH HIGH            | 17039-EK-P-DW-0203-16                                                                                                                                      | N/A                | DCS | DI  | N/A      | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A         | N/A                               | * | * | - | A                                                           | - |  |
| 1387                                                                                                                                                                                              | 20-ZSL-1051  |                                 |                                                                                                                                                            |                    |     |     |          |     |     |     |                  |             |                                   |   |   |   |                                                             |   |  |

|                                                                                                                                                                                                                                                                                                                                                     |               |                                        |                            |                        |     |     |       |     |     |       |                  |                 |                                   |   |   |   |           |   |           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------|----------------------------|------------------------|-----|-----|-------|-----|-----|-------|------------------|-----------------|-----------------------------------|---|---|---|-----------|---|-----------|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an undertaking of India Corporation</small></div></div></div> |               |                                        | CLIENT : OIL INDIA LIMITED |                        |     |     |       |     |     |       |                  |                 |                                   |   |   |   | DOC NO. : |   |           |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                   |               |                                        |                            |                        |     |     |       |     |     |       |                  |                 |                                   |   |   |   |           |   | REV NO. : |  |
|                                                                                                                                                                                                                                                                                                                                                     |               |                                        |                            |                        |     |     |       |     |     |       |                  |                 |                                   |   |   |   |           |   | DATE :    |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |               |                                        |                            |                        |     |     |       |     |     |       |                  |                 |                                   |   |   |   |           |   |           |  |
| 1390                                                                                                                                                                                                                                                                                                                                                | 20-PSV-0477D  | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0203-17      | 3"-PT-20-0379B-AC01    | N/A | N/A | 10/FV | 150 | 2.8 | 50    | CSC-4 & MPC - 10 | 2" J 3"/150#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1391                                                                                                                                                                                                                                                                                                                                                | 20-PI-0468B   | PRESSURE INDICATOR                     | 17039-EK-P-DW-0203-17      | 3"-PT-20-0383B-AC01    | N/A | N/A | 10/FV | 150 | 2.8 | 50    | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A         | - |           |  |
| 1392                                                                                                                                                                                                                                                                                                                                                | 20-TW-0469B   | THERMOWELL                             | 17039-EK-P-DW-0203-17      | 3"-PT-20-0383B-AC01    | N/A | N/A | 10/FV | 150 | 2.8 | 50    | CSC-4 & MPC - 10 | 1 1/2"/150#RF   | SS316                             | * | * | - | A         | - |           |  |
| 1393                                                                                                                                                                                                                                                                                                                                                | 20-TI-0469B   | TEMPERATURE INDICATOR                  | 17039-EK-P-DW-0203-17      | 3"-PT-20-0383B-AC01    | N/A | N/A | 10/FV | 150 | 2.8 | 50    | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A         | - |           |  |
| 1394                                                                                                                                                                                                                                                                                                                                                | 20-PDIT-0470B | DIFFERENCIAL PRESSURE TRANSMITTER      | 17039-EK-P-DW-0203-17      | ACROSE EK-HBG-B-1030   | DCS | AI  | 10/FV | 150 | 2.8 | 50    | CSC-4 & MPC - 10 | 1/2"NPT         | SS316                             | * | * | - | A         | - |           |  |
| 1395                                                                                                                                                                                                                                                                                                                                                | 20-TW-0479B   | THERMOWELL                             | 17039-EK-P-DW-0203-17      | 3"-PL-20-0457B-AC01    | N/A | N/A | 10/FV | 150 | 4.5 | 112   | CSC-4 & MPC - 10 | 1 1/2"/150#RF   | SS316                             | * | * | - | A         | - |           |  |
| 1396                                                                                                                                                                                                                                                                                                                                                | 20-TI-0479B   | TEMPERATURE INDICATOR                  | 17039-EK-P-DW-0203-17      | 3"-PL-20-0457B-AC01    | N/A | N/A | 10/FV | 150 | 4.5 | 112   | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A         | - |           |  |
| 1397                                                                                                                                                                                                                                                                                                                                                | 20-PSV-0476C  | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0203-17      | 2"-PL-20-0380B-AC01    | N/A | N/A | 10/FV | 150 | 4.5 | 112   | CSC-4 & MPC - 10 | 1" E 2" /150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1398                                                                                                                                                                                                                                                                                                                                                | 20-PSV-0476D  | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0203-17      | 2"-PL-20-0381B-AC01    | N/A | N/A | 10/FV | 150 | 4.5 | 112   | CSC-4 & MPC - 10 | 1" E 2" /150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1399                                                                                                                                                                                                                                                                                                                                                | 20-LV-0476B   | LEVEL CONTROL VALVE                    | 17039-EK-P-DW-0203-17      | 3"-PL-20-0397B-AC01    | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 2"/150#RF       | SS316                             | * | * | - | A         | - |           |  |
| 1400                                                                                                                                                                                                                                                                                                                                                | 20-LY-0476B   | POSITIONER                             | 17039-EK-P-DW-0203-17      | N/A                    | DCS | AO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A         | - |           |  |
| 1401                                                                                                                                                                                                                                                                                                                                                | 20-PI-0477B   | PRESSURE INDICATOR                     | 17039-EK-P-DW-0203-17      | 3"-PL-20-0374B-AC01    | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A         | - |           |  |
| 1402                                                                                                                                                                                                                                                                                                                                                | 20-TW-0478B   | THERMOWELL                             | 17039-EK-P-DW-0203-17      | 3"-PL-20-0374B-AC01    | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 1 1/2"/150#RF   | SS316                             | * | * | - | A         | - |           |  |
| 1403                                                                                                                                                                                                                                                                                                                                                | 20-TI-0478B   | TEMPERATURE INDICATOR                  | 17039-EK-P-DW-0203-17      | 3"-PL-20-0374B-AC01    | N/A | N/A | 10/FV | 150 | 4   | 55    | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A         | - |           |  |
| 1404                                                                                                                                                                                                                                                                                                                                                | 20-PDIT-0480B | DIFFERENCIAL PRESSURE TRANSMITTER      | 17039-EK-P-DW-0203-17      | ACROSE EK-HBG-B-1030   | DCS | AI  | 10/FV | 150 | 2.8 | 95-98 | CSC-4 & MPC - 10 | 1/2"NPT         | SS316                             | * | * | - | A         | - |           |  |
| 1405                                                                                                                                                                                                                                                                                                                                                | 20-TW-0471B   | THERMOWELL                             | 17039-EK-P-DW-0203-17      | 4"-PT-20-0377B-AC01    | N/A | N/A | 10/FV | 150 | 2.3 | 95-98 | CSC-4 & MPC - 10 | 1 1/2"/300#RF   | SS316                             | * | * | - | A         | - |           |  |
| 1406                                                                                                                                                                                                                                                                                                                                                | 20-TI-0471B   | TEMPERATURE INDICATOR                  | 17039-EK-P-DW-0203-17      | 4"-PT-20-0377B-AC01    | N/A | N/A | 10/FV | 150 | 2.3 | 95-98 | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A         | - |           |  |
| 1407                                                                                                                                                                                                                                                                                                                                                | 20-XV-0473C   | SHUTDOWN VALVE                         | 17039-EK-P-DW-0203-17      | 3"-PL-20-0376B-AC01    | N/A | N/A | 10/FV | 150 | 2.3 | 95-98 | CSC-4 & MPC - 10 | 3"/150#RF       | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1408                                                                                                                                                                                                                                                                                                                                                | 20-XY-0473C   | SOLENOID VALVE                         | 17039-EK-P-DW-0203-17      | N/A                    | PSD | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A         | - |           |  |
| 1409                                                                                                                                                                                                                                                                                                                                                | 20-XY-0473C   | SOLENOID VALVE                         | 17039-EK-P-DW-0203-17      | N/A                    | DCS | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A         | - |           |  |
| 1410                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-0473C  | POSITION SWITCH HIGH                   | 17039-EK-P-DW-0203-17      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A         | - |           |  |
| 1411                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-0473C  | POSITION SWITCH LOW                    | 17039-EK-P-DW-0203-17      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A         | - |           |  |
| 1412                                                                                                                                                                                                                                                                                                                                                | 20-XV-0473D   | SHUTDOWN VALVE                         | 17039-EK-P-DW-0203-17      | 3"-PL-20-0376A-AC01    | N/A | N/A | 10/FV | 150 | 2.3 | 95-98 | CSC-4 & MPC - 10 | 4"/150#RF       | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1413                                                                                                                                                                                                                                                                                                                                                | 20-XY-0473D   | SOLENOID VALVE                         | 17039-EK-P-DW-0203-17      | N/A                    | PSD | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A         | - |           |  |
| 1414                                                                                                                                                                                                                                                                                                                                                | 20-XY-0473D   | SOLENOID VALVE                         | 17039-EK-P-DW-0203-17      | N/A                    | DCS | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A         | - |           |  |
| 1415                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-0473D  | POSITION SWITCH HIGH                   | 17039-EK-P-DW-0203-17      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A         | - |           |  |
| 1416                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-0473D  | POSITION SWITCH LOW                    | 17039-EK-P-DW-0203-17      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A         | - |           |  |
| 1417                                                                                                                                                                                                                                                                                                                                                | 41-PSV-3607C  | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0203-18      | 2"-HM-41-3606B-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1418                                                                                                                                                                                                                                                                                                                                                | 41-PSV-3607D  | PRESSURE SAFETY VALVE                  | 17039-EK-P-DW-0203-18      | 2"-HM-41-3605B-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 | 1" D 2"/300#RF  | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1419                                                                                                                                                                                                                                                                                                                                                | 20-PDIT-3605B | DIFFERENCIAL PRESSURE TRANSMITTER      | 17039-EK-P-DW-0203-18      | ACROSE EK-HBG-B-1040   | DCS | AI  | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 1/2"NPT         | SS316                             | * | * | - | A         | - |           |  |
| 1420                                                                                                                                                                                                                                                                                                                                                | 41-TW-3603B   | THERMOWELL                             | 17039-EK-P-DW-0203-18      | 2"-HM-41-3603B-BC01-1N | N/A | N/A | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 1 1/2"/300#RF   | SS316                             | * | * | - | A         | - |           |  |
| 1421                                                                                                                                                                                                                                                                                                                                                | 41-TI-3603B   | TEMPERATURE INDICATOR                  | 17039-EK-P-DW-0203-18      | 2"-HM-41-3603B-BC01-1N | N/A | N/A | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 1/2"NPTM        | SS316                             | * | * | - | A         | - |           |  |
| 1422                                                                                                                                                                                                                                                                                                                                                | 41-PI-3604B   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0203-18      | 2"-HM-41-3603B-BC01-1N | N/A | N/A | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 2"/300#RF       | SS316                             | * | * | - | A         | - |           |  |
| 1423                                                                                                                                                                                                                                                                                                                                                | 41-TV-0470B   | TEMPERATURE CONTROL VALVE              | 17039-EK-P-DW-0203-18      | 2"-HM-41-3603B-BC01-1N | N/A | N/A | 12/FV | 250 | 4.5 | 100   | CSC-4 & MPC - 10 | 1"/300#RF       | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1424                                                                                                                                                                                                                                                                                                                                                | 41-TY-0470B   | POSITIONER                             | 17039-EK-P-DW-0203-18      | N/A                    | DCS | AO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A         | - |           |  |
| 1425                                                                                                                                                                                                                                                                                                                                                | 41-SDV-3606B  | SHUTDOWN VALVE                         | 17039-EK-P-DW-0203-18      | 2"-HM-41-3601B-BC01-1N | N/A | N/A | 12/FV | 250 | 5.0 | 200   | CSC-4 & MPC - 10 | 2"/300#RF       | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |           |  |
| 1426                                                                                                                                                                                                                                                                                                                                                | 41-SXV-3606B  | SOLENOID VALVE                         | 17039-EK-P-DW-0203-18      | N/A                    | PSD | DO  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | SS316                             | * | * | - | A         | - |           |  |
| 1427                                                                                                                                                                                                                                                                                                                                                | ZSL-3606B     | POSITION SWITCH LOW                    | 17039-EK-P-DW-0203-18      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A         | - |           |  |
| 1428                                                                                                                                                                                                                                                                                                                                                | ZSH 3606B     | POSITION SWITCH HIGH                   | 17039-EK-P-DW-0203-18      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A   | CSC-4 & MPC - 10 | N/A             | N/A                               | * | * | - | A         | - |           |  |
| 1429                                                                                                                                                                                                                                                                                                                                                | 41-PI-3601B   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0203-18      | 2"-HM-41-3601B-BC01-1N | N/A | N/A | 12/FV | 250 | 5   | 200   | CSC-4 & MPC - 10 |                 |                                   |   |   |   |           |   |           |  |

|                                                                                                                                                                                                   |                  |                                                     |                                                                                                                                                            |                        |     |     |       |     |     |         |                  |           |                                   |   |   |                                                             |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|-------|-----|-----|---------|------------------|-----------|-----------------------------------|---|---|-------------------------------------------------------------|---|---|
| <div><div></div><div></div></div> |                  |                                                     | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                        |     |     |       |     |     |         |                  |           |                                   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |   |
| INSTRUMENT INDEX                                                                                                                                                                                  |                  |                                                     |                                                                                                                                                            |                        |     |     |       |     |     |         |                  |           |                                   |   |   |                                                             |   |   |
| 1451                                                                                                                                                                                              | 20-AI-1060A      | CURRENT INDICATOR                                   | 17039-EK-P-DW-0203-19                                                                                                                                      | DEHYDRATOR TRANSFORMER | DCS | AI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1452                                                                                                                                                                                              | 20-AI-1060B      | CURRENT INDICATOR                                   | 17039-EK-P-DW-0203-19                                                                                                                                      | DEHYDRATOR TRANSFORMER | DCS | AI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1453                                                                                                                                                                                              | 20-EI-1060A      | VOLTAGE INDICATOR                                   | 17039-EK-P-DW-0203-19                                                                                                                                      | DEHYDRATOR TRANSFORMER | DCS | AI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1454                                                                                                                                                                                              | 20-EI-1060B      | VOLTAGE INDICATOR                                   | 17039-EK-P-DW-0203-19                                                                                                                                      | DEHYDRATOR TRANSFORMER | DCS | AI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1455                                                                                                                                                                                              | 20-HS-2012A      | START                                               | 17039-EK-P-DW-0203-19                                                                                                                                      | DEHYDRATOR TRANSFORMER | DCS | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1456                                                                                                                                                                                              | 20-XS-2012       | SHUTDOWN                                            | 17039-EK-P-DW-0203-19                                                                                                                                      | DEHYDRATOR TRANSFORMER | PSD | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1457                                                                                                                                                                                              | 20-HS-2012B      | STOP                                                | 17039-EK-P-DW-0203-19                                                                                                                                      | DEHYDRATOR TRANSFORMER | DCS | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1458                                                                                                                                                                                              | 20-XI-1060       | RUNNING                                             | 17039-EK-P-DW-0203-19                                                                                                                                      | LV SWITCH GEAR         | DCS | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1459                                                                                                                                                                                              | 20-XA-1060       | FAULT                                               | 17039-EK-P-DW-0203-19                                                                                                                                      | LV SWITCH GEAR         | DCS | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1460                                                                                                                                                                                              | 20-XS-1060       | SHUTDOWN                                            | 17039-EK-P-DW-0203-19                                                                                                                                      | LV SWITCH GEAR         | PSD | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1461                                                                                                                                                                                              | 20-X-1060        | START                                               | 17039-EK-P-DW-0203-19                                                                                                                                      | LV SWITCH GEAR         | DCS | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1462                                                                                                                                                                                              | 20-X-1060        | STOP                                                | 17039-EK-P-DW-0203-19                                                                                                                                      | LV SWITCH GEAR         | DCS | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1463                                                                                                                                                                                              | 20-HS-1060       | START / STOP                                        | 17039-EK-P-DW-0203-19                                                                                                                                      | LV SWITCH GEAR         | TCP | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1464                                                                                                                                                                                              | 20-PSH-1060A     | PRESSURE SWITCH HIGH                                | 17039-EK-P-DW-0203-19                                                                                                                                      | TRANSFORMER-A 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 |           | SS316                             | * | * | -                                                           | A | - |
| 1465                                                                                                                                                                                              | 20-TSH-1060A     | TEMPERATURE SWITCH HIGH                             | 17039-EK-P-DW-0203-19                                                                                                                                      | TRANSFORMER-A 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1466                                                                                                                                                                                              | 20-TSH-1060A     | TEMPERATURE SWITCH HIGH                             | 17039-EK-P-DW-0203-19                                                                                                                                      | TRANSFORMER-A 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1467                                                                                                                                                                                              | 20-LS-0443       | LEVEL SWITCH                                        | 17039-EK-P-DW-0203-19                                                                                                                                      | EK-MBM-B-1060          | TCP | DI  | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 6"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1468                                                                                                                                                                                              | 20-PSH-1060B     | PRESSURE SWITCH HIGH                                | 17039-EK-P-DW-0203-19                                                                                                                                      | TRANSFORMER-B 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 |           | SS316                             | * | * | -                                                           | A | - |
| 1469                                                                                                                                                                                              | 20-TSH-1060B     | TEMPERATURE SWITCH HIGH                             | 17039-EK-P-DW-0203-19                                                                                                                                      | TRANSFORMER-B 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1470                                                                                                                                                                                              | 20-TSH-1060BB    | TEMPERATURE SWITCH HIGH                             | 17039-EK-P-DW-0203-19                                                                                                                                      | TRANSFORMER-B 100 KVA  | TCP | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1471                                                                                                                                                                                              | 20-ILT/ILG-4504B | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0203-19                                                                                                                                      | EK-MBM-B-1060          | DCS | AI  | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 2"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1472                                                                                                                                                                                              | 20-ILG-0442B     | TRANSPARENT TYPE LEVEL INDICATOR                    | 17039-EK-P-DW-0203-19                                                                                                                                      | EK-MBM-B-1060          | N/A | N/A | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 2"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1473                                                                                                                                                                                              | 20-ILIT-0415B    | DP TYPE LEVEL TRANSMITTER                           | 17039-EK-P-DW-0203-19                                                                                                                                      | EK-MBM-B-1060          | PSD | AI  | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 1/2"NPT   | SS316                             | * | * | -                                                           | A | - |
| 1474                                                                                                                                                                                              | 20-TW-0414B      | THERMOWELL                                          | 17039-EK-P-DW-0203-19                                                                                                                                      | EK-MBM-B-1060          | N/A | N/A | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 2"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1475                                                                                                                                                                                              | 20-TIT-0414B     | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0203-19                                                                                                                                      | EK-MBM-A-1060          | DCS | AI  | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 1/2"NPTM  | SS316                             | * | * | -                                                           | A | - |
| 1476                                                                                                                                                                                              | 44-ILV-4504B     | LEVEL CONTROL VALVE                                 | 17039-EK-P-DW-0203-19                                                                                                                                      | 2"-PW-44-4503B-AC01    | N/A | N/A | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 1"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1477                                                                                                                                                                                              | 44-ILY-4504B     | POSITIONER                                          | 17039-EK-P-DW-0203-19                                                                                                                                      | N/A                    | DCS | AO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1478                                                                                                                                                                                              | 44-SDV-1993B     | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-19                                                                                                                                      | 2"-PW-44-4503B-AC01    | N/A | N/A | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1479                                                                                                                                                                                              | 44-SXV-1993B     | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-19                                                                                                                                      | N/A                    | PSD | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1480                                                                                                                                                                                              | 44-ZSL-1993B     | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-19                                                                                                                                      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1481                                                                                                                                                                                              | 44-ZSH-1993B     | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-19                                                                                                                                      | N/A                    | DCS | DI  | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1482                                                                                                                                                                                              | 42-FI-3801       | FLOW INDICATOR                                      | 17039-EK-P-DW-0203-19                                                                                                                                      | 1/2"-CE-42-3832-GT20   | N/A | N/A | 110   | 80  | 95  | AMBIENT | CSC-4 & MPC - 10 | 1/2"NPT   | SS316                             | * | * | -                                                           | A | - |
| 1483                                                                                                                                                                                              | 20-SDV-1911      | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0203-19                                                                                                                                      | 3"-PV-20-0905B-AC01    | N/A | N/A | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 3"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1484                                                                                                                                                                                              | 44-SXV-1911      | SOLENOID VALVE                                      | 17039-EK-P-DW-0203-19                                                                                                                                      | N/A                    | PSD | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1485                                                                                                                                                                                              | 44-ZSL-1911      | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0203-19                                                                                                                                      | N/A                    | DCS | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1486                                                                                                                                                                                              | 44-ZSH-1911      | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0203-19                                                                                                                                      | N/A                    | DCS | DI  | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1487                                                                                                                                                                                              | 20-AIT-1915      | ANALYSER TRANSMITTER                                | 17039-EK-P-DW-0203-19                                                                                                                                      | 2"-PW-44-4504-AC01     | DCS | AI  | 10/FV | 150 | 1.8 | 112     | CSC-4 & MPC - 10 | 1/2"NPTF  | SS316                             | * | * | -                                                           | A | - |
| 1488                                                                                                                                                                                              | 20-FV-1117B      | FLOW CONTROL VALVE                                  | 17039-EK-P-DW-0203-20                                                                                                                                      | 2"-PL-20-0456B-AC01-1N | N/A | N/A | 10    | 150 | 4.5 | 115     | CSC-4 & MPC - 10 | 1"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -                                                           | A | - |
| 1489                                                                                                                                                                                              | 20-FY-1117B      | POSITIONER                                          | 17039-EK-P-DW-0203-20                                                                                                                                      | N/A                    | DCS | AO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1490                                                                                                                                                                                              | 20-PI-0419C      | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-B-1070A          | N/A | N/A | 10    | 150 | 4.5 | 115     | CSC-4 & MPC - 10 | 1/2"NPTM  | SS316                             | * | * | -                                                           | A | - |
| 1491                                                                                                                                                                                              | 20-PT-0420C      | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-B-1070A          | PSD | AI  | 10    | 150 | 4.5 | 115     | CSC-4 & MPC - 10 | 1/2"NPTF  | SS316                             | * | * | -                                                           | A | - |
| 1492                                                                                                                                                                                              | 20-FT-1117B      | CORIOLIS TYPE FLOW TRANSMITTER                      | 17039-EK-P-DW-0203-20                                                                                                                                      | 3"-PL-20-0457-AC01-1N  | DCS | AI  | 10    | 150 | 4.5 | 115     | CSC-4 & MPC - 10 | 3"/150#RF | SS316                             | * | * | -                                                           | A | - |
| 1493                                                                                                                                                                                              | 20-XS-1070A      | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-B-1070A          | PSD | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1494                                                                                                                                                                                              | 20-XXS-1070A     | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-B-1070A          | ESD | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1495                                                                                                                                                                                              | 20-XA-1070A      | FAULT ALARM                                         | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-B-1070A          | DCS | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1496                                                                                                                                                                                              | 20-XI-1070A      | RUNNING                                             | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-B-1070A          | DCS | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1497                                                                                                                                                                                              | 20-XC-1070A      | START / STOP                                        | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-B-1070A          | DCS | DO  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1498                                                                                                                                                                                              | 20-XE-1070A      | AVAILABLE                                           | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-B-1070A          | DCS | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1499                                                                                                                                                                                              | 20-XB-1070A      | TRIP FEEDBACK                                       | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-A-1070A          | DCS | DI  | N/A   | N/A | N/A | N/A     | CSC-4 & MPC - 10 | N/A       | N/A                               | * | * | -                                                           | A | - |
| 1500                                                                                                                                                                                              | 20-PI-0419D      | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0203-20                                                                                                                                      | EK-PM-A-101            |     |     |       |     |     |         |                  |           |                                   |   |   |                                                             |   |   |

|                                                                                                                                                                                                   |              |                         |                                                                                                                                                            |                        |     |     |       |     |          |     |                  |               |                                   |   |   |   |                                                             |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----|-----|-------|-----|----------|-----|------------------|---------------|-----------------------------------|---|---|---|-------------------------------------------------------------|---|--|
| <div><div></div><div></div></div> |              |                         | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                        |     |     |       |     |          |     |                  |               |                                   |   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                         |                                                                                                                                                            |                        |     |     |       |     |          |     |                  |               |                                   |   |   |   |                                                             |   |  |
| 1512                                                                                                                                                                                              | 44-TT-8044   | TEMPERATURE TRANSMITTER | 17039-EK-P-DW-0203-21                                                                                                                                      | 2"-PW-44-4504A-AC01-3N | PSD | AI  | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1/2"NPTM      | SS316                             | * | * | - | A                                                           | - |  |
| 1513                                                                                                                                                                                              | 44-TW-8045   | THERMOWELL              | 17039-EK-P-DW-0203-21                                                                                                                                      | 2"-PW-44-4504A-AC01-3N | N/A | N/A | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1 1/2"/150#RF | SS316                             | * | * | - | A                                                           | - |  |
| 1514                                                                                                                                                                                              | 44-TT-8045   | TEMPERATURE TRANSMITTER | 17039-EK-P-DW-0203-21                                                                                                                                      | 2"-PW-44-4504A-AC01-3N | DCS | AI  | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1/2"NPTM      | SS316                             | * | * | - | A                                                           | - |  |
| 1515                                                                                                                                                                                              | 20-XS-1080A  | SHUTDOWN / TRIP         | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | PSD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1516                                                                                                                                                                                              | 20-XXS-1080A | SHUTDOWN / TRIP         | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | ESD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1517                                                                                                                                                                                              | 20-XA-1080A  | FAULT ALARM             | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1518                                                                                                                                                                                              | 20-XI-1080A  | RUNNING                 | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1519                                                                                                                                                                                              | 20-XC-1080A  | START / STOP            | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1520                                                                                                                                                                                              | 20-XE-1080A  | AVAILABLE               | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1521                                                                                                                                                                                              | 20-XB-1080A  | TRIP FEEDBACK           | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1522                                                                                                                                                                                              | 20-XS-1080B  | SHUTDOWN / TRIP         | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | PSD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1523                                                                                                                                                                                              | 20-XXS-1080B | SHUTDOWN / TRIP         | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | ESD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1524                                                                                                                                                                                              | 20-XA-1080B  | FAULT ALARM             | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1525                                                                                                                                                                                              | 20-XI-1080B  | RUNNING                 | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1526                                                                                                                                                                                              | 20-XC-1080B  | START / STOP            | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1527                                                                                                                                                                                              | 20-XE-1080B  | AVAILABLE               | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1528                                                                                                                                                                                              | 20-XF-1080B  | FREQUENCY SET POINT     | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1529                                                                                                                                                                                              | 20-XK-1080B  | SPEED INDICATION        | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1530                                                                                                                                                                                              | 20-XB-1080B  | TRIP FEEDBACK           | 17039-EK-P-DW-0203-21                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1531                                                                                                                                                                                              | 44-TW-8043B  | THERMOWELL              | 17039-EK-P-DW-0203-22                                                                                                                                      | 2"-PW-44-4504B-AC01-3N | N/A | N/A | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1 1/2"/150#RF | SS316                             | * | * | - | A                                                           | - |  |
| 1532                                                                                                                                                                                              | 44-TI-8043B  | TEMPERATURE INDICATOR   | 17039-EK-P-DW-0203-22                                                                                                                                      | 2"-PW-44-4504B-AC01-3N | N/A | N/A | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1/2"NPTM      | SS316                             | * | * | - | A                                                           | - |  |
| 1533                                                                                                                                                                                              | 44-TW-8044   | THERMOWELL              | 17039-EK-P-DW-0203-22                                                                                                                                      | 2"-PW-44-4676B-AC01-3N | N/A | N/A | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1 1/2"/150#RF | SS316                             | * | * | - | A                                                           | - |  |
| 1534                                                                                                                                                                                              | 44-TT-8044   | TEMPERATURE TRANSMITTER | 17039-EK-P-DW-0203-22                                                                                                                                      | 2"-PW-44-4676B-AC01-3N | PSD | AI  | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1/2"NPTM      | SS316                             | * | * | - | A                                                           | - |  |
| 1535                                                                                                                                                                                              | 44-TW-8045B  | THERMOWELL              | 17039-EK-P-DW-0203-22                                                                                                                                      | 2"-PW-44-4676B-AC01-3N | N/A | N/A | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1 1/2"/150#RF | SS316                             | * | * | - | A                                                           | - |  |
| 1536                                                                                                                                                                                              | 44-TT-8045B  | TEMPERATURE TRANSMITTER | 17039-EK-P-DW-0203-22                                                                                                                                      | 2"-PW-44-4676B-AC01-3N | DCS | AI  | 10/FV | 150 | 1.8      | 112 | CSC-4 & MPC - 10 | 1/2"NPTM      | SS316                             | * | * | - | A                                                           | - |  |
| 1537                                                                                                                                                                                              | 20-XS-1080C  | SHUTDOWN / TRIP         | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | PSD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1538                                                                                                                                                                                              | 20-XXS-1080C | SHUTDOWN / TRIP         | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | ESD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1539                                                                                                                                                                                              | 20-XA-1080C  | FAULT ALARM             | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1540                                                                                                                                                                                              | 20-XI-1080C  | RUNNING                 | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1541                                                                                                                                                                                              | 20-XC-1080C  | START / STOP            | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1542                                                                                                                                                                                              | 20-XE-1080C  | AVAILABLE               | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1543                                                                                                                                                                                              | 20-XB-1080C  | TRIP FEEDBACK           | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1544                                                                                                                                                                                              | 20-XS-1080D  | SHUTDOWN / TRIP         | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | PSD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1545                                                                                                                                                                                              | 20-XXS-1080D | SHUTDOWN / TRIP         | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | ESD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1546                                                                                                                                                                                              | 20-XA-1080D  | FAULT ALARM             | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1547                                                                                                                                                                                              | 20-XI-1080D  | RUNNING                 | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1548                                                                                                                                                                                              | 20-XC-1080D  | START / STOP            | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1549                                                                                                                                                                                              | 20-XE-1080D  | AVAILABLE               | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1550                                                                                                                                                                                              | 20-XF-1080D  | FREQUENCY SET POINT     | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1551                                                                                                                                                                                              | 20-XK-1080D  | SPEED INDICATION        | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1552                                                                                                                                                                                              | 20-XB-1080D  | TRIP FEEDBACK           | 17039-EK-P-DW-0203-22                                                                                                                                      | EK-HAL-A-1080          | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1553                                                                                                                                                                                              | 23-SDV-1971  | SHUTDOWN VALVE          | 17039-EK-P-DW-0204-01                                                                                                                                      | 6"-PV-23-0407-AC01-IN  | N/A | N/A | 30/FV | 111 | 165      | 1.3 | CSC-4 & MPC - 10 | 6"/300#RF     | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 1554                                                                                                                                                                                              | 23-SXV-1971  | SOLENOID VALVE          | 17039-EK-P-DW-0204-01                                                                                                                                      | N/A                    | PSD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1555                                                                                                                                                                                              | 23-ZSL-1971  | POSITION SWITCH LOW     | 17039-EK-P-DW-0204-01                                                                                                                                      | N/A                    | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1556                                                                                                                                                                                              | 23-ZSH-1971  | POSITION SWITCH HIGH    | 17039-EK-P-DW-0204-01                                                                                                                                      | N/A                    | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1557                                                                                                                                                                                              | 23-SDV-1971A | SHUTDOWN VALVE          | 17039-EK-P-DW-0204-01                                                                                                                                      | 6"-PV-23-0407-BC01     | N/A | N/A | 30/FV | 165 | 51-128.2 | 25  | CSC-4 & MPC - 10 | 6"/300#RF     | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 1558                                                                                                                                                                                              | 23-SXV-1971A | SOLENOID VALVE          | 17039-EK-P-DW-0204-01                                                                                                                                      | N/A                    | PSD | DO  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1559                                                                                                                                                                                              | 23-ZSL-1971A | POSITION SWITCH LOW     | 17039-EK-P-DW-0204-01                                                                                                                                      | N/A                    | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1560                                                                                                                                                                                              | 23-ZSH-1971A | POSITION SWITCH HIGH    | 17039-EK-P-DW-0204-01                                                                                                                                      | N/A                    | DCS | DI  | N/A   | N/A | N/A      | N/A | CSC-4 & MPC - 10 | N/A           | N/A                               | * | * | - | A                                                           | - |  |
| 1561                                                                                                                                                                                              |              |                         |                                                                                                                                                            |                        |     |     |       |     |          |     |                  |               |                                   |   |   |   |                                                             |   |  |

|                                                                                                                                                                                                                                                          |                |                                                     |                            |                     |     |     |       |     |     |     |                  |                    |                                   |   |   |           |   |   |  |
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| <div> <b>KAVIN™</b></div> <div><div>ऑयल इंडिया लिमिटेड<br/>Oil India Limited</div></div> |                |                                                     | CLIENT : OIL INDIA LIMITED |                     |     |     |       |     |     |     |                  |                    |                                   |   |   | DOC NO. : |   |   |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                        |                |                                                     |                            |                     |     |     |       |     |     |     |                  |                    | REV NO. :                         |   |   |           |   |   |  |
|                                                                                                                                                                                                                                                          |                |                                                     |                            |                     |     |     |       |     |     |     |                  |                    | DATE :                            |   |   |           |   |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                         |                |                                                     |                            |                     |     |     |       |     |     |     |                  |                    |                                   |   |   |           |   |   |  |
| 1573                                                                                                                                                                                                                                                     | 24-TI-3059B    | TEMPERATURE INDICATOR                               | 17039-EK-P-DW-0205-01      | EK-MBD-A-1250B      | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1/2"NPTM           | SS316                             | * | * | -         | A | - |  |
| 1574                                                                                                                                                                                                                                                     | 24-TW-3059B    | THERMOWELL                                          | 17039-EK-P-DW-0205-01      | EK-MBD-A-1250B      | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 2"/300#RF          | SS316                             | * | * | -         | A | - |  |
| 1575                                                                                                                                                                                                                                                     | 24-PI-3053B    | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0205-01      | EK-MBD-A-1250B      | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1/2"NPTM           | SS316                             | * | * | -         | A | - |  |
| 1576                                                                                                                                                                                                                                                     | 20-PSV-3056A   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0205-01      | 3"-PV-24-3057-BC01  | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1 1/2" F 2"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1577                                                                                                                                                                                                                                                     | 20-PT-3051B    | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0205-01      | E-MBD-A-1250B       | PSD | AI  | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1/2"NPTF           | SS316                             | * | * | -         | A | - |  |
| 1578                                                                                                                                                                                                                                                     | 24-LT-3052B    | DP TYPE LEVEL TRANSMITTER                           | 17039-EK-P-DW-0205-01      | E-MBD-A-1250B       | PSD | AI  | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1/2"NPT            | SS316                             | * | * | -         | A | - |  |
| 1579                                                                                                                                                                                                                                                     | 24-LG/LT-3054B | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0205-01      | E-MBD-A-1250B       | DCS | AI  | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 2"/300#RF          | SS316                             | * | * | -         | A | - |  |
| 1580                                                                                                                                                                                                                                                     | 24-LV-3054B    | LEVEL CONTROL VALVE                                 | 17039-EK-P-DW-0205-01      | 2"-PL-20-3054-BC01  | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1"/300#RF          | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1581                                                                                                                                                                                                                                                     | 24-LY-3054B    | POSITIONER                                          | 17039-EK-P-DW-0205-01      | N/A                 | DCS | AO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1582                                                                                                                                                                                                                                                     | 20-PSV-3056B   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0205-01      | 3"-PV-24-3059-BC01  | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1 1/2" F 2"/300#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1583                                                                                                                                                                                                                                                     | 20-BDV-3059    | BLOWDOWN VALVE                                      | 17039-EK-P-DW-0205-01      | 2"-PV-24-3060-BC01  | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 2"/300#RF          | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1584                                                                                                                                                                                                                                                     | 20-SDY-3059    | SOLENOID VALVE                                      | 17039-EK-P-DW-0205-01      | N/A                 | ESD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | SS316                             | * | * | -         | A | - |  |
| 1585                                                                                                                                                                                                                                                     | 20-ZSL-3059    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0205-01      | N/A                 | PSD | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1586                                                                                                                                                                                                                                                     | 20-ZSH-3059    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0205-01      | N/A                 | PSD | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1587                                                                                                                                                                                                                                                     | 24-RO-3060     | RESTRICTION ORIFICE                                 | 17039-EK-P-DW-0205-01      | 2"-PV-24-3060-BC01  | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 2"/300#RF          | SS316                             | * | * | -         | A | - |  |
| 1588                                                                                                                                                                                                                                                     | 20-BDV-3055    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0205-01      | 2"-PL-20-3054-BC01  | N/A | N/A | 30/FV | 85  | 24  | 55  | CSC-4 & MPC - 10 | 2"/300#RF          | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1589                                                                                                                                                                                                                                                     | 20-SDY-3055    | SOLENOID VALVE                                      | 17039-EK-P-DW-0205-01      | N/A                 | PSD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | SS316                             | * | * | -         | A | - |  |
| 1590                                                                                                                                                                                                                                                     | 20-ZSL-3055    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0205-01      | N/A                 | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1591                                                                                                                                                                                                                                                     | 20-ZSH-3055    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0205-01      | N/A                 | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1592                                                                                                                                                                                                                                                     | 24-PDIT-3063   | DIFFERENCIAL PRESSURE TRANSMITTER                   | 17039-EK-P-DW-0205-02      | ACROSS STRAINER     | DCS | AI  | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1/2"NPT            | SS316                             | * | * | -         | A | - |  |
| 1593                                                                                                                                                                                                                                                     | 24-FT-3064     | ULTRASONIC TYPE FLOW TRANSMITTER                    | 17039-EK-P-DW-0205-02      | 10"-PV-24-3061-BC01 | DCS | AI  | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 10"/300#RF         | SS316                             | * | * | -         | A | - |  |
| 1594                                                                                                                                                                                                                                                     | 24-FT-3070     | ULTRASONIC TYPE FLOW TRANSMITTER                    | 17039-EK-P-DW-0205-02      | 10"-PV-24-3063-BC01 | DCS | AI  | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 10"/300#RF         | SS316                             | * | * | -         | A | - |  |
| 1595                                                                                                                                                                                                                                                     | 24-TW-3065     | THERMOWELL                                          | 17039-EK-P-DW-0205-02      | 10"-PV-24-3061-BC01 | N/A | N/A | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1 1/2"/300#RF      | SS316                             | * | * | -         | A | - |  |
| 1596                                                                                                                                                                                                                                                     | 24-TT-3065     | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0205-02      | 10"-PV-24-3061-BC01 | DCS | AI  | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1/2"NPTM           | SS316                             | * | * | -         | A | - |  |
| 1597                                                                                                                                                                                                                                                     | 24-PIT-3078    | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0205-02      | 10"-PV-24-3065-BC01 | DCS | AI  | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1/2"NPTF           | SS316                             | * | * | -         | A | - |  |
| 1598                                                                                                                                                                                                                                                     | 24-SDV-3081    | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0205-02      | 10"-PV-24-3066-BC01 | N/A | N/A | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 10"/300#RF         | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1599                                                                                                                                                                                                                                                     | 24-SXY-3081    | SOLENOID VALVE                                      | 17039-EK-P-DW-0205-02      | N/A                 | PSD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | SS316                             | * | * | -         | A | - |  |
| 1600                                                                                                                                                                                                                                                     | 24-ZSL-3081    | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0205-02      | N/A                 | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1601                                                                                                                                                                                                                                                     | 24-ZSH-3081    | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0205-02      | N/A                 | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1602                                                                                                                                                                                                                                                     | 24-PV-3080     | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0205-02      | 10"-PV-24-3066-BC01 | N/A | N/A | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 8"/300#RF          | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1603                                                                                                                                                                                                                                                     | 24-PV-3080     | POSITIONER                                          | 17039-EK-P-DW-0205-02      | N/A                 | DCS | AO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1604                                                                                                                                                                                                                                                     | 24-PV-3079     | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0205-02      | 10"-PV-24-3067-BC01 | N/A | N/A | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 8"/300#RF          | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1605                                                                                                                                                                                                                                                     | 24-PY-3079     | POSITIONER                                          | 17039-EK-P-DW-0205-02      | N/A                 | DCS | AO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1606                                                                                                                                                                                                                                                     | 24-AIT-3081    | ANALYSER TRANSMITTER                                | 17039-EK-P-DW-0205-02      | 10"-PV-24-3066-BC01 | DCS | AI  | 30    | 85  | 24  | 55  | CSC-4 & MPC - 10 | 1/2"NPTF           | SS316                             | * | * | -         | A | - |  |
| 1607                                                                                                                                                                                                                                                     | 66-PI-6601     | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0206-01      | 4"-WE-66-6602-AC01  | N/A | N/A | 10    | 80  | 5   | AMB | CSC-4 & MPC - 10 | 1/2"NPTM           | SS316                             | * | * | -         | A | - |  |
| 1608                                                                                                                                                                                                                                                     | 66-PT-6602     | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0206-01      | 4"-WE-66-6602-AC01  | PSD | AI  | 10    | 80  | 5   | AMB | CSC-4 & MPC - 10 | 1/2"NPTF           | SS316                             | * | * | -         | A | - |  |
| 1609                                                                                                                                                                                                                                                     | 66-XC-3454     | START / STOP                                        | 17039-EK-P-DW-0206-01      | EK-PM-3454 A/B      | DCS | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1610                                                                                                                                                                                                                                                     | 66-XI-3454     | RUNNING                                             | 17039-EK-P-DW-0206-01      | EK-PM-3454 A/B      | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1611                                                                                                                                                                                                                                                     | 66-XA-3454     | FAULT ALARM                                         | 17039-EK-P-DW-0206-01      | EK-PM-3454 A/B      | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1612                                                                                                                                                                                                                                                     | 66-XE-3454     | AVAILABLE                                           | 17039-EK-P-DW-0206-01      | EK-PM-3454 A/B      | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1613                                                                                                                                                                                                                                                     | 66-XB-3454     | TRIP FEEDBACK                                       | 17039-EK-P-DW-0206-01      | EK-PM-3454 A/B      | DCS | DI  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1614                                                                                                                                                                                                                                                     | 66-XS-3454     | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0206-01      | EK-PM-3454 A/B      | USD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1615                                                                                                                                                                                                                                                     | 66-XXS-3454    | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0206-01      | EK-PM-3454 A/B      | ESD | DO  | N/A   | N/A | N/A | N/A | CSC-4 & MPC - 10 | N/A                | N/A                               | * | * | -         | A | - |  |
| 1616                                                                                                                                                                                                                                                     | 24-TW-3521     | THERMOWELL                                          | 17039-EK-P-DW-0206-01      | EK-ABJ-3454A/B      | N/A | N/A | 10    | 80  | 5   | AMB | CSC-4 & MPC - 10 | 2"/300#RF          | SS316                             | * | * | -         | A | - |  |
| 1617                                                                                                                                                                                                                                                     | 24-TI-3521     | TEMPERATURE INDICATOR                               | 17039-EK-P-DW-0206-01      | EK-ABJ-3454A/B      | N/A | N/A | 10    | 80  | 5   | AMB | CSC-4 & MPC - 10 | 1/2"NPTM           | SS316                             | * | * | -         | A | - |  |
| 1618                                                                                                                                                                                                                                                     | 66-LIT-3510    | RADAR TYPE LEVEL TRANSMITTER                        | 17039-EK-P-DW-0206-01      | EK-ABJ-3454A/B      | DCS | AI  | 10    | 80  | 5   | AMB | CSC-4 & MPC - 10 | 4"/14              |                                   |   |   |           |   |   |  |

|                                                                                                                                                                                                                                                                                                                                                     |              |                              |                            |                       |     |     |          |     |      |     |                  |                          |                                   |   |   |           |   |           |  |
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| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an undertaking of India Corporation</small></div></div></div> |              |                              | CLIENT : OIL INDIA LIMITED |                       |     |     |          |     |      |     |                  |                          |                                   |   |   | DOC NO. : |   |           |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                   |              |                              |                            |                       |     |     |          |     |      |     |                  |                          |                                   |   |   |           |   | REV NO. : |  |
|                                                                                                                                                                                                                                                                                                                                                     |              |                              |                            |                       |     |     |          |     |      |     |                  |                          |                                   |   |   |           |   | DATE :    |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |              |                              |                            |                       |     |     |          |     |      |     |                  |                          |                                   |   |   |           |   |           |  |
| 1634                                                                                                                                                                                                                                                                                                                                                | 66-ZSH-6643B | POSITION SWITCH HIGH         | 17039-EK-P-DW-0206-02      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1635                                                                                                                                                                                                                                                                                                                                                | 66-SDV-6644B | SHUTDOWN VALVE               | 17039-EK-P-DW-0206-02      | 6"-TW-66-6608-AC01    | N/A | N/A | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 6"/150#RF                | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1636                                                                                                                                                                                                                                                                                                                                                | 66-SXV-6644B | SOLENOID VALVE               | 17039-EK-P-DW-0206-02      | N/A                   | PSD | DO  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1637                                                                                                                                                                                                                                                                                                                                                | 66-ZSL-6644B | POSITION SWITCH LOW          | 17039-EK-P-DW-0206-02      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1638                                                                                                                                                                                                                                                                                                                                                | 66-ZSH-6644B | POSITION SWITCH HIGH         | 17039-EK-P-DW-0206-02      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1639                                                                                                                                                                                                                                                                                                                                                | 66-TG-6636   | TEMPERATURE INDICATOR        | 17039-EK-P-DW-0206-02      | EK-PM-3425C           | N/A | N/A | FOW+0.07 | 85  | ATM  | 51  | CSC-4 & MPC - 10 | 2"/300#RF                | SS316                             | * | * | -         | A | -         |  |
| 1640                                                                                                                                                                                                                                                                                                                                                | 66-TW-6636   | THERMOWELL                   | 17039-EK-P-DW-0206-02      | EK-PM-3425C           | N/A | N/A | FOW+0.07 | 85  | ATM  | 51  | CSC-4 & MPC - 10 | 1/2"NPTM                 | SS316                             | * | * | -         | A | -         |  |
| 1641                                                                                                                                                                                                                                                                                                                                                | 66-TW-6636B  | THERMOWELL                   | 17039-EK-P-DW-0206-02      | EK-PM-3425C           | N/A | N/A | FOW+0.07 | 85  | ATM  | 51  | CSC-4 & MPC - 10 | 1/2"NPTM                 | SS316                             | * | * | -         | A | -         |  |
| 1642                                                                                                                                                                                                                                                                                                                                                | 66-TG-6636B  | TEMPERATURE INDICATOR        | 17039-EK-P-DW-0206-02      | EK-PM-3425C           | N/A | N/A | FOW+0.07 | 85  | ATM  | 51  | CSC-4 & MPC - 10 | 2"/300#RF                | SS316                             | * | * | -         | A | -         |  |
| 1643                                                                                                                                                                                                                                                                                                                                                | 66-PI-6608A  | PRESSURE INDICATOR           | 17039-EK-P-DW-0206-03      | 4"-TW-66-6624-CC01    | N/A | N/A | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1/2"NPTM                 | SS316                             | * | * | -         | A | -         |  |
| 1644                                                                                                                                                                                                                                                                                                                                                | 66-PI-6608B  | PRESSURE INDICATOR           | 17039-EK-P-DW-0206-03      | 4"-TW-66-6627-CC01    | N/A | N/A | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1/2"NPTM                 | SS316                             | * | * | -         | A | -         |  |
| 1645                                                                                                                                                                                                                                                                                                                                                | 66-PI-6608C  | PRESSURE INDICATOR           | 17039-EK-P-DW-0206-03      | 4"-TW-66-6630-CC01    | N/A | N/A | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1/2"NPTM                 | SS316                             | * | * | -         | A | -         |  |
| 1646                                                                                                                                                                                                                                                                                                                                                | 66-PT-6609A  | PRESSURE TRANSMITTER         | 17039-EK-P-DW-0206-03      | 4"-TW-66-6624-CC01    | PSD | AI  | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1/2"NPTF                 | SS316                             | * | * | -         | A | -         |  |
| 1647                                                                                                                                                                                                                                                                                                                                                | 66-PT-6609B  | PRESSURE TRANSMITTER         | 17039-EK-P-DW-0206-03      | 4"-TW-66-6627-CC01    | PSD | AI  | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1/2"NPTF                 | SS316                             | * | * | -         | A | -         |  |
| 1648                                                                                                                                                                                                                                                                                                                                                | 66-PT-6609C  | PRESSURE TRANSMITTER         | 17039-EK-P-DW-0206-03      | 4"-TW-66-6630-CC01    | PSD | AI  | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1/2"NPTF                 | SS316                             | * | * | -         | A | -         |  |
| 1649                                                                                                                                                                                                                                                                                                                                                | 66-PSV-6611A | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0206-03      | 2"-PL-20-6850-CC01    | N/A | N/A | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1 1/2"600#RTJ D 2"/300RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1650                                                                                                                                                                                                                                                                                                                                                | 66-PSV-6611B | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0206-03      | 2"-PL-20-6850-CC01    | N/A | N/A | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1 1/2"600#RTJ D 2"/300RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1651                                                                                                                                                                                                                                                                                                                                                | 66-PSV-6611C | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0206-03      | 2"-PL-20-6850-CC01    | N/A | N/A | 80       | 80  | 70.3 | AMB | CSC-4 & MPC - 10 | 1 1/2"600#RTJ D 2"/300RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1652                                                                                                                                                                                                                                                                                                                                                | 41-SDV-6623  | SHUTDOWN VALVE               | 17039-EK-P-DW-0206-04      | 2"-HM-41-3674-BC01-IN | N/A | N/A | 12/FV    | 250 | 5.5  | 200 | CSC-4 & MPC - 10 | 2"/300#RF                | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1653                                                                                                                                                                                                                                                                                                                                                | 41-SDY-6623  | SOLENOID VALVE               | 17039-EK-P-DW-0206-04      | N/A                   | PSD | DO  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | SS316                             | * | * | -         | A | -         |  |
| 1654                                                                                                                                                                                                                                                                                                                                                | 41-ZSL-6623  | POSITION SWITCH LOW          | 17039-EK-P-DW-0206-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1655                                                                                                                                                                                                                                                                                                                                                | 41-ZSH-6623  | POSITION SWITCH HIGH         | 17039-EK-P-DW-0206-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1656                                                                                                                                                                                                                                                                                                                                                | 66-PVSV-6613 | PRESSURE VACUUM SAFETY VALVE | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | N/A | N/A | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 2"/150#RF                | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1657                                                                                                                                                                                                                                                                                                                                                | 66-TV-6622   | TEMPERATURE CONTROL VALVE    | 17039-EK-P-DW-0206-04      | 2"-HM-41-3677-BC01-IN | N/A | N/A | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 1"/150#RF                | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1658                                                                                                                                                                                                                                                                                                                                                | 66-TY-6622   | POSITIONER                   | 17039-EK-P-DW-0206-04      | N/A                   | DCS | AO  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1659                                                                                                                                                                                                                                                                                                                                                | 66-TW-6622   | THERMOWELL                   | 17039-EK-P-DW-0206-04      | N/A                   | N/A | N/A | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 2"/150#RF                | SS316                             | * | * | -         | A | -         |  |
| 1660                                                                                                                                                                                                                                                                                                                                                | 66-TIT-6622  | TEMPERATURE TRANSMITTER      | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | DCS | AI  | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 1/2"NPTM                 | SS316                             | * | * | -         | A | -         |  |
| 1661                                                                                                                                                                                                                                                                                                                                                | 41-PSV-6624A | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0206-04      | 2"-HM-41-6637-BC01-1N | N/A | N/A | 12/FV    | 250 | 5.5  | 200 | CSC-4 & MPC - 10 | 1"/300#RF D 2"/150#RF    | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1662                                                                                                                                                                                                                                                                                                                                                | 41-PSV-6624B | PRESSURE SAFETY VALVE        | 17039-EK-P-DW-0206-04      | 2"-HM-41-6856-BC01-1N | N/A | N/A | 12/FV    | 250 | 5.5  | 200 | CSC-4 & MPC - 10 | 1"/300#RF D 2"/150#RF    | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1663                                                                                                                                                                                                                                                                                                                                                | 66-LIT-6614  | RADAR TYPE LEVEL TRANSMITTER | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | PSD | AI  | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 1/2"NPTF                 | SS316                             | * | * | -         | A | -         |  |
| 1664                                                                                                                                                                                                                                                                                                                                                | 66-ILIT-6615 | RADAR TYPE LEVEL TRANSMITTER | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | DCS | AI  | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 1/2"NPTF                 | SS316                             | * | * | -         | A | -         |  |
| 1665                                                                                                                                                                                                                                                                                                                                                | 66-TW-6621   | THERMOWELL                   | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | N/A | N/A | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 1"/150#RF                | SS316                             | * | * | -         | A | -         |  |
| 1666                                                                                                                                                                                                                                                                                                                                                | 66-TT-6621   | TEMPERATURE TRANSMITTER      | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | PSD | AI  | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 1/2"NPTM                 | SS316                             | * | * | -         | A | -         |  |
| 1667                                                                                                                                                                                                                                                                                                                                                | 66-TW-6620   | THERMOWELL                   | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | N/A | N/A | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 2"/150#RF                | SS316                             | * | * | -         | A | -         |  |
| 1668                                                                                                                                                                                                                                                                                                                                                | 66-TI-6620   | TEMPERATURE INDICATOR        | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | N/A | N/A | FOW+0.07 | 80  | ATM  | AMB | CSC-4 & MPC - 10 | 1/2"NPTM                 | SS316                             | * | * | -         | A | -         |  |
| 1669                                                                                                                                                                                                                                                                                                                                                | 41-XS-1001E  | SHUTDOWN / TRIP              | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | PSD | DO  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1670                                                                                                                                                                                                                                                                                                                                                | 41-XXS-1001E | SHUTDOWN / TRIP              | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | ESD | DO  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1671                                                                                                                                                                                                                                                                                                                                                | 41-XA-1001E  | FAULT ALARM                  | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1672                                                                                                                                                                                                                                                                                                                                                | 41-XI-1001E  | RUNNING                      | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1673                                                                                                                                                                                                                                                                                                                                                | 41-XC-1001E  | START / STOP                 | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | DCS | DO  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1674                                                                                                                                                                                                                                                                                                                                                | 41-XE-1001E  | AVAILABLE                    | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1675                                                                                                                                                                                                                                                                                                                                                | 41-XB-1001E  | TRIP FEEDBACK                | 17039-EK-P-DW-0206-04      | EK-ABJ-3452           | DCS | DI  | N/A      | N/A | N/A  | N/A | CSC-4 & MPC - 10 | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1676                                                                                                                                                                                                                                                                                                                                                | 66-MOV-6612  | MOTOR OPERATED VALVE         | 17039-EK-P-DW-0206-04      | 2"-PL-66-6603-AC01    | N/A | N/A | 30       | 85  | 24   | 55  | MPC - 2          | 10"/300#RF               | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1677                                                                                                                                                                                                                                                                                                                                                | 66-ZSL-6612  | OPEN FEEDBACK                | 17039-EK-P-DW-0206-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A | MPC - 2          | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1678                                                                                                                                                                                                                                                                                                                                                | 66-ZSH-6612  | CLOSE FEEDBACK               | 17039-EK-P-DW-0206-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A | MPC - 2          | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1679                                                                                                                                                                                                                                                                                                                                                | 66-SSR-6612  | REMOTE / LOCAL FEEDBACK      | 17039-EK-P-DW-0206-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A  | N/A | MPC - 2          | N/A                      | N/A                               | * | * | -         | A | -         |  |
| 1680                                                                                                                                                                                                                                                                                                                                                |              |                              |                            |                       |     |     |          |     |      |     |                  |                          |                                   |   |   |           |   |           |  |

|                                                                                                                                                                                                   |              |                                |                            |                       |     |     |          |     |     |     |          |           |                                   |   |   |           |   |           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|----------------------------|-----------------------|-----|-----|----------|-----|-----|-----|----------|-----------|-----------------------------------|---|---|-----------|---|-----------|--|
| <div><div></div><div></div></div> |              |                                | CLIENT : OIL INDIA LIMITED |                       |     |     |          |     |     |     |          |           |                                   |   |   | DOC NO. : |   |           |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                 |              |                                |                            |                       |     |     |          |     |     |     |          |           |                                   |   |   |           |   | REV NO. : |  |
|                                                                                                                                                                                                   |              |                                |                            |                       |     |     |          |     |     |     |          |           |                                   |   |   |           |   | DATE :    |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                                |                            |                       |     |     |          |     |     |     |          |           |                                   |   |   |           |   |           |  |
| 1695                                                                                                                                                                                              | 66-XE-3455A  | AVAILABLE                      | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1696                                                                                                                                                                                              | 66-XB-3455A  | TRIP FEEDBACK                  | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1697                                                                                                                                                                                              | 66-XS-3455A  | SHUTDOWN / TRIP                | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1698                                                                                                                                                                                              | 66-XXS-3455A | SHUTDOWN / TRIP                | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1699                                                                                                                                                                                              | 66-XC-3455B  | START / STOP                   | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1700                                                                                                                                                                                              | 66-XI-3455B  | RUNNING                        | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1701                                                                                                                                                                                              | 66-XA-3455B  | FAULT ALARM                    | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1702                                                                                                                                                                                              | 66-XE-3455B  | AVAILABLE                      | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1703                                                                                                                                                                                              | 66-XB-3455B  | TRIP FEEDBACK                  | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1704                                                                                                                                                                                              | 66-XS-3455B  | SHUTDOWN / TRIP                | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1705                                                                                                                                                                                              | 66-XXS-3455B | SHUTDOWN / TRIP                | 17039-EK-P-DW-0206-05      | EK-PM-3455A           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1706                                                                                                                                                                                              | 66-PT-6629A  | PRESSURE TRANSMITTER           | 17039-EK-P-DW-0206-05      | OUTLET OF EK-PM-3455A | USD | AI  | 10       | 80  | 5   | AMB | MPC - 3  | 1/2"NPTF  | SS316                             | * | * | -         | A | -         |  |
| 1707                                                                                                                                                                                              | 66-PT-6629B  | PRESSURE TRANSMITTER           | 17039-EK-P-DW-0206-05      | OUTLET OF EK-PM-3455B | USD | AI  | 10       | 80  | 5   | AMB | MPC - 3  | 1/2"NPTF  | SS316                             | * | * | -         | A | -         |  |
| 1708                                                                                                                                                                                              | 66-PI-6628A  | PRESSURE INDICATOR             | 17039-EK-P-DW-0206-05      | OUTLET OF EK-PM-3455A | N/A | N/A | 10       | 80  | 5   | AMB | MPC - 3  | 1/2"NPTM  | SS316                             | * | * | -         | A | -         |  |
| 1709                                                                                                                                                                                              | 66-PI-6628B  | PRESSURE INDICATOR             | 17039-EK-P-DW-0206-05      | OUTLET OF EK-PM-3455B | N/A | N/A | 10       | 80  | 5   | AMB | MPC - 3  | 1/2"NPTM  | SS316                             | * | * | -         | A | -         |  |
| 1710                                                                                                                                                                                              | 66-FT-6630   | MAGNETIC TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0206-05      | 2"-PL-66-6651-AC01    | DCS | AI  | 10       | 80  | 5   | AMB | MPC - 3  | 2"/150#RF | SS316                             | * | * | -         | A | -         |  |
| 1711                                                                                                                                                                                              | 66-FV-6635   | FLOW CONTROL VALVE             | 17039-EK-P-DW-0206-06      | 3"-WE-66-6661-AC01    | N/A | N/A | 10       | 80  | 5   | AMB | MPC - 3  | 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1712                                                                                                                                                                                              | 66-FY-6635   | POSITIONER                     | 17039-EK-P-DW-0206-06      | N/A                   | DCS | AO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1713                                                                                                                                                                                              | 66-FT-6635   | MAGNETIC TYPE FLOW TRANSMITTER | 17039-EK-P-DW-0206-06      | 4"-WE-66-6659-AC01    | DCS | AI  | 10       | 80  | 5   | AMB | MPC - 3  | 4"/150#RF | SS316                             | * | * | -         | A | -         |  |
| 1714                                                                                                                                                                                              | 66-PI-6633A  | PRESSURE INDICATOR             | 17039-EK-P-DW-0206-06      | 4"-WE-66-6656-AC01    | N/A | N/A | 10       | 80  | 5   | AMB | MPC - 3  | 1/2"NPTM  | SS316                             | * | * | -         | A | -         |  |
| 1715                                                                                                                                                                                              | 66-PT-6634A  | PRESSURE TRANSMITTER           | 17039-EK-P-DW-0206-06      | 4"-WE-66-6656-AC01    | USD | AI  | 10       | 80  | 5   | AMB | MPC - 3  | 1/2"NPTF  | SS316                             | * | * | -         | A | -         |  |
| 1716                                                                                                                                                                                              | 66-PI-6633B  | PRESSURE INDICATOR             | 17039-EK-P-DW-0206-06      | 4"-WE-66-6658-AC01    | N/A | N/A | 10       | 80  | 5   | AMB | MPC - 3  | 1/2"NPTM  | SS316                             | * | * | -         | A | -         |  |
| 1717                                                                                                                                                                                              | 66-PT-6634B  | PRESSURE TRANSMITTER           | 17039-EK-P-DW-0206-06      | 4"-WE-66-6658-AC01    | USD | AI  | 10       | 80  | 5   | AMB | MPC - 3  | 1/2"NPTF  | SS316                             | * | * | -         | A | -         |  |
| 1718                                                                                                                                                                                              | 66-XC-3456A  | START / STOP                   | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1719                                                                                                                                                                                              | 66-XI-3456A  | RUNNING                        | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1720                                                                                                                                                                                              | 66-XA-3456A  | FAULT ALARM                    | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1721                                                                                                                                                                                              | 66-XE-3456A  | AVAILABLE                      | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1722                                                                                                                                                                                              | 66-XB-3456A  | TRIP FEEDBACK                  | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1723                                                                                                                                                                                              | 66-XS-3456A  | SHUTDOWN / TRIP                | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1724                                                                                                                                                                                              | 66-XXS-3456A | SHUTDOWN / TRIP                | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1725                                                                                                                                                                                              | 66-LT-6631   | RADAR TYPE LEVEL TRANSMITTER   | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | PSD | AI  | FOW+0.07 | 80  | 80  | AMB | MPC - 3  | 2"/150#RF | SS316                             | * | * | -         | A | -         |  |
| 1726                                                                                                                                                                                              | 66-TW-6637   | THERMOWELL                     | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | N/A | N/A | FOW+0.07 | 80  | 80  | AMB | MPC - 3  | 2"/150#RF | SS316                             | * | * | -         | A | -         |  |
| 1727                                                                                                                                                                                              | 66-TG-6637   | TEMPERATURE INDICATOR          | 17039-EK-P-DW-0206-06      | EK-PM-3456A           | N/A | N/A | FOW+0.07 | 85  | 51  | ATM | MPC - 3  | 2"/150#RF | SS316                             | * | * | -         | A | -         |  |
| 1728                                                                                                                                                                                              | 66-SDV-6641  | SHUTDOWN VALVE                 | 17039-EK-P-DW-0206-06      | 6"-WE-66-6654-AC01    | N/A | N/A | FOW+0.07 | 80  | 80  | AMB | MPC - 3  | 6"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1729                                                                                                                                                                                              | 66-SXV-6641  | SOLENOID VALVE                 | 17039-EK-P-DW-0206-06      | N/A                   | PSD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | SS316                             | * | * | -         | A | -         |  |
| 1730                                                                                                                                                                                              | 66-ZSL-6641  | POSITION SWITCH LOW            | 17039-EK-P-DW-0206-06      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1731                                                                                                                                                                                              | 66-ZSH-6641  | POSITION SWITCH HIGH           | 17039-EK-P-DW-0206-06      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1732                                                                                                                                                                                              | 66-SDV-6640  | SHUTDOWN VALVE                 | 17039-EK-P-DW-0206-06      | 4"-WE-66-6605-AC01    | N/A | N/A | FOW+0.07 | 80  | 80  | AMB | MPC - 3  | 4"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1733                                                                                                                                                                                              | 66-SXV-6640  | SOLENOID VALVE                 | 17039-EK-P-DW-0206-06      | N/A                   | PSD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1734                                                                                                                                                                                              | 66-ZSL-6640  | POSITION SWITCH LOW            | 17039-EK-P-DW-0206-06      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1735                                                                                                                                                                                              | 66-ZSH-6640  | POSITION SWITCH HIGH           | 17039-EK-P-DW-0206-06      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1736                                                                                                                                                                                              | 66-XC-3456B  | START / STOP                   | 17039-EK-P-DW-0206-06      | EK-PM-3456B           | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1737                                                                                                                                                                                              | 66-XI-3456B  | RUNNING                        | 17039-EK-P-DW-0206-06      | EK-PM-3456B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1738                                                                                                                                                                                              | 66-XA-3456B  | FAULT ALARM                    | 17039-EK-P-DW-0206-06      | EK-PM-3456B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1739                                                                                                                                                                                              | 66-XE-3456B  | AVAILABLE                      | 17039-EK-P-DW-0206-06      | EK-PM-3456B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1740                                                                                                                                                                                              | 66-XB-3456B  | TRIP FEEDBACK                  | 17039-EK-P-DW-0206-06      | EK-PM-3456B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1741                                                                                                                                                                                              | 66-XS-3456B  | SHUTDOWN / TRIP                | 17039-EK-P-DW-0206-06      | EK-PM-3456B           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1742                                                                                                                                                                                              | 66-XXS-3456B | SHUTDOWN / TRIP                | 17039-EK-P-DW-0206-06      | EK-PM-3456B           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 3  | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1743                                                                                                                                                                                              | 66-XV-4010   | SHUTDOWN VALVE                 | 17039-EK-P-DW-0207-01      | 4"-OW-56-5410-AC01    | N/A | N/A | FOW+0.07 | 80  | 80  | AMB | MPC - 14 | 4"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1744                                                                                                                                                                                              | 66-SXV-4010  | SOLENOID VALVE                 | 17039-EK-P-DW-0207-01      | N/A                   | PSD | DO  | N/A      | N/A | N/A | N/A | MPC - 14 | N/A       | SS316                             | * | * | -         | A | -         |  |
| 1745                                                                                                                                                                                              | 66-ZSL-4010  | POSITION SWITCH LOW            | 17039-EK-P-DW-0207-01      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 14 | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1746                                                                                                                                                                                              | 66-ZSH-4010  | POSITION SWITCH HIGH           | 17039-EK-P-DW-0207-01      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 14 | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1747                                                                                                                                                                                              | 66-XV-4009   | SHUTDOWN VALVE                 | 17039-EK-P-DW-0207-01      | 4"-OW-56-4019-AC01    | N/A | N/A | FOW+0.07 | 80  | 80  | AMB | MPC - 14 | 4"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |
| 1748                                                                                                                                                                                              | 66-SXV-4009  | SOLENOID VALVE                 | 17039-EK-P-DW-0207-01      | N/A                   | PSD | DO  | N/A      | N/A | N/A | N/A | MPC - 14 | N/A       | SS316                             | * | * | -         | A | -         |  |
| 1749                                                                                                                                                                                              | 66-ZSL-4009  | POSITION SWITCH LOW            | 17039-EK-P-DW-0207-01      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 14 | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1750                                                                                                                                                                                              | 66-ZSH-4009  | POSITION SWITCH HIGH           | 17039-EK-P-DW-0207-01      | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 14 | N/A       | N/A                               | * | * | -         | A | -         |  |
| 1751                                                                                                                                                                                              | 63-XS-2200   | COMMON TRIP                    | 17039-EK-P-DW-0208-01      | EK-CZZ-2200A          | PSD | DO  | N/A      | N/A | N/A | N/A | MPC - 4  |           |                                   |   |   |           |   |           |  |

|                                                                                                                                                                                                   |               |                                                        |                                         |                                   |     |     |         |     |         |         |         |                           |                                                    |   |   |   |           |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------|-----------------------------------------|-----------------------------------|-----|-----|---------|-----|---------|---------|---------|---------------------------|----------------------------------------------------|---|---|---|-----------|---|--|
| <div><div></div><div></div></div> |               |                                                        | CLIENT : OIL INDIA LIMITED              |                                   |     |     |         |     |         |         |         |                           |                                                    |   |   |   | DOC NO. : |   |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                 |               |                                                        |                                         |                                   |     |     |         |     |         |         |         |                           |                                                    |   |   |   | REV NO. : |   |  |
|                                                                                                                                                                                                   |               |                                                        |                                         |                                   |     |     |         |     |         |         |         |                           |                                                    |   |   |   | DATE :    |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |               |                                                        |                                         |                                   |     |     |         |     |         |         |         |                           |                                                    |   |   |   |           |   |  |
| 1756                                                                                                                                                                                              | 63-TI-6201    | TEMPERATURE INDICATOR                                  | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | EK-MBD-2210                       | N/A | N/A | 13.5/FV | 85  | 6-9     | 51      | MPC - 4 | 2"/150#RF                 | SS316                                              | * | * | - | A         | - |  |
| 1757                                                                                                                                                                                              | 63-TW-6201    | THERMOWELL                                             | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | EK-MBD-2210                       | N/A | N/A | 13.5/FV | 85  | 6-9     | 51      | MPC - 4 | 1/2"NPTM                  | SS316                                              | * | * | - | A         | - |  |
| 1758                                                                                                                                                                                              | 63-PI-6203    | PRESSURE INDICATOR                                     | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | EK-MBD-2210                       | N/A | N/A | 13.5/FV | 85  | 6-9     | 51      | MPC - 4 | 1/2"NPTM                  | SS316                                              | * | * | - | A         | - |  |
| 1759                                                                                                                                                                                              | 63-LG-6204    | MAGNETIC TYPE LEVEL INDICATOR                          | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | EK-MBD-2210                       | N/A | N/A | 13.5/FV | 85  | 6-9     | 51      | MPC - 4 | 2"/150#RF                 | SS316                                              | * | * | - | A         | - |  |
| 1760                                                                                                                                                                                              | 63-PCV-6247A  | PRESSURE CONTROL VALVE                                 | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | 2"-UA-63-6206-AG01                | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1"/150#RF                 | BODY : CARBON STEEL<br>(GALVANIZED) / TRIM : SS316 | * | * | - | A         | - |  |
| 1761                                                                                                                                                                                              | 63-PCV-6247B  | PRESSURE CONTROL VALVE                                 | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | 2"-UA-63-6206-AG01                | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1"/150#RF                 | BODY : CARBON STEEL<br>(GALVANIZED) / TRIM : SS316 | * | * | - | A         | - |  |
| 1762                                                                                                                                                                                              | 63-PSV-6246A  | PRESSURE SAFETY VALVE                                  | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | 2"-UA-63-6207-AC01                | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1 1/2"/300#RF F 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                  | * | * | - | A         | - |  |
| 1763                                                                                                                                                                                              | 63-PSV-6246B  | PRESSURE SAFETY VALVE                                  | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | 2"-UA-63-7798-AC01                | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1 1/2"/300#RF F 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                  | * | * | - | A         | - |  |
| 1764                                                                                                                                                                                              | 63-TW-6205A   | THERMOWELL                                             | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | EK-MBD-2230A                      | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 2"/150#RF                 | SS316                                              | * | * | - | A         | - |  |
| 1765                                                                                                                                                                                              | 63-TI-6205A   | TEMPERATURE INDICATOR                                  | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | EK-MBD-2230A                      | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1/2"NPTM                  | SS316                                              | * | * | - | A         | - |  |
| 1766                                                                                                                                                                                              | 63-LG-6207A   | MAGNETIC TYPE LEVEL INDICATOR                          | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | EK-MBD-2230A                      | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 2"/150#RF                 | SS316                                              | * | * | - | A         | - |  |
| 1767                                                                                                                                                                                              | 63-PI-6206A   | PRESSURE INDICATOR                                     | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | EK-MBD-2230A                      | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1/2"NPTM                  | SS316                                              | * | * | - | A         | - |  |
| 1768                                                                                                                                                                                              | 63-PSV-6258A  | PRESSURE SAFETY VALVE                                  | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | 4"-IA-63-7800A-AC01               | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 3"/300#RF L 4"/150#RF     | BODY: CARBON STEEL<br>TRIM: SS316                  | * | * | - | A         | - |  |
| 1769                                                                                                                                                                                              | 63-PSV-6258B  | PRESSURE SAFETY VALVE                                  | 17039-EK-P-DW-0208-02<br>(SHEET 1 OF 2) | 4"-IA-63-6212A-AC01               | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 3"/300#RF L 4"/150#RF     | BODY: CARBON STEEL<br>TRIM: SS316                  | * | * | - | A         | - |  |
| 1770                                                                                                                                                                                              | 63-TW-6205B   | THERMOWELL                                             | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | EK-MBD-2230B                      | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 2"/150#RF                 | SS316                                              | * | * | - | A         | - |  |
| 1771                                                                                                                                                                                              | 63-TI-6205B   | TEMPERATURE INDICATOR                                  | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | EK-MBD-2230B                      | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1/2"NPTM                  | SS316                                              | * | * | - | A         | - |  |
| 1772                                                                                                                                                                                              | 63-PI-6206B   | PRESSURE INDICATOR                                     | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | EK-MBD-2230B                      | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1/2"NPTM                  | SS316                                              | * | * | - | A         | - |  |
| 1773                                                                                                                                                                                              | 63-LG-6407B   | MAGNETIC TYPE LEVEL INDICATOR                          | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | EK-MBD-2230B                      | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 2"/150#RF                 | SS316                                              | * | * | - | A         | - |  |
| 1774                                                                                                                                                                                              | 63-PCV-6264A  | PRESSURE CONTROL VALVE                                 | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | 2"-IA-63-6247B-AG01               | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1"/150#RF                 | BODY : CARBON STEEL<br>(GALVANIZED) / TRIM : SS316 | * | * | - | A         | - |  |
| 1775                                                                                                                                                                                              | 63-PCV-6264B  | PRESSURE CONTROL VALVE                                 | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | 2"-IA-63-6247B-AG01               | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1"/150#RF                 | BODY : CARBON STEEL<br>(GALVANIZED) / TRIM : SS316 | * | * | - | A         | - |  |
| 1776                                                                                                                                                                                              | 63-PIT-6208A  | PRESSURE TRANSMITTER                                   | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | 2"-IA-63-6247B-AG01               | ESD | AI  | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1/2"NPTF                  | SS316                                              | * | * | - | A         | - |  |
| 1777                                                                                                                                                                                              | 63-PIT-8053B  | PRESSURE TRANSMITTER                                   | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | 2"-IA-63-6213B-AG01               | DCS | AI  | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1/2"NPTF                  | SS316                                              | * | * | - | A         | - |  |
| 1778                                                                                                                                                                                              | 63-PIT-6208B  | PRESSURE TRANSMITTER                                   | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | 2"-IA-63-6247B-AG01               | ESD | AI  | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1/2"NPTF                  | SS316                                              | * | * | - | A         | - |  |
| 1779                                                                                                                                                                                              | 63-PIT-6208C  | PRESSURE TRANSMITTER                                   | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | 2"-IA-63-6213B-AG01               | ESD | AI  | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 1/2"NPTF                  | SS316                                              | * | * | - | A         | - |  |
| 1780                                                                                                                                                                                              | 63-PSV-6258B  | PRESSURE SAFETY VALVE                                  | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | 4"-IA-63-7800B-AC01               | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 3"/300#RF F 4"/150#RF     | BODY: CARBON STEEL<br>TRIM: SS316                  | * | * | - | A         | - |  |
| 1781                                                                                                                                                                                              | 63-PSV-6258B  | PRESSURE SAFETY VALVE                                  | 17039-EK-P-DW-0208-02<br>(SHEET 2 OF 2) | 4"-IA-63-7800B-AC01               | N/A | N/A | 13.5/FV | 85  | 5.5-8.5 | 51      | MPC - 4 | 3"/300#RF F 4"/150#RF     | BODY: CARBON STEEL<br>TRIM: SS316                  | * | * | - | A         | - |  |
| 1782                                                                                                                                                                                              | 45-PV-5003A   | PRESSURE CONTROL VALVE                                 | 17039-EK-P-DW-0210-01                   | 3"-PV-45-5001-BC01                | N/A | N/A | 30/FV   | 85  | 24      | 55      | MPC - 2 | 2"/300#RF                 | BODY: CARBON STEEL<br>TRIM: SS316                  | * | * | - | A         | - |  |
| 1783                                                                                                                                                                                              | 45-PY-5003A   | POSITIONER                                             | 17039-EK-P-DW-0210-01                   | N/A                               | DCS | AO  | N/A     | N/A | N/A     | N/A     | MPC - 2 | N/A                       | N/A                                                | * | * | - | A         | - |  |
| 1784                                                                                                                                                                                              | 45-PV-5003B   | PRESSURE CONTROL VALVE                                 | 17039-EK-P-DW-0210-01                   | 3"-PV-45-5001-BC01 BYPASS<br>LINE | N/A | N/A | 30/FV   | 85  | 24      | 55      | MPC - 2 | 2"/300#RF                 | BODY: CARBON STEEL<br>TRIM: SS316                  | * | * | - | A         | - |  |
| 1785                                                                                                                                                                                              | 45-PY-5003B   | POSITIONER                                             | 17039-EK-P-DW-0210-01                   | N/A                               | DCS | AO  | N/A     | N/A | N/A     | N/A     | MPC - 2 | N/A                       | N/A                                                | * | * | - | A         | - |  |
| 1786                                                                                                                                                                                              | 45-PT-5003A   | PRESSURE TRANSMITTER                                   | 17039-EK-P-DW-0210-01                   | 3"-PV-45-5575-BC01                | DCS | AI  | 30/FV   | 85  | 24      | 55      | MPC - 2 | 1/2"NPTF                  | SS316                                              | * | * | - | A         | - |  |
| 1787                                                                                                                                                                                              | 45-LT-5040    | DP TYPE LEVEL TRANSMITTER                              | 17039-EK-P-DW-0210-01                   | EK-MBF-3000                       | PSD | AI  | 11/FV   | 80  | 7       | 44-45.5 | MPC - 2 | 1/2"NPT                   | SS316                                              | * | * | - | A         | - |  |
| 1788                                                                                                                                                                                              | 45-TW-5041    | THERMOWELL                                             | 17039-EK-P-DW-0210-01                   | EK-MBF-3000                       | N/A | N/A | 11/FV   | 80  | 7       | 44-45.5 | MPC - 2 | 2"/300#RF                 | SS316                                              | * | * | - | A         | - |  |
| 1789                                                                                                                                                                                              | 45-TI-5041    | TEMPERATURE INDICATOR                                  | 17039-EK-P-DW-0210-01                   | EK-MBF-3000                       | N/A | N/A | 11/FV   | 80  | 7       | 44-45.5 | MPC - 2 | 1/2"NPTM                  | SS316                                              | * | * | - | A         | - |  |
| 1790                                                                                                                                                                                              | 45-PI-5005    | PRESSURE INDICATOR                                     | 17039-EK-P-DW-0210-01                   | EK-MBF-3000                       | N/A | N/A | 11/FV   | 80  | 7       | 44-45.5 | MPC - 2 | 1/2"NPTM                  | SS316                                              | * | * | - | A         | - |  |
| 1791                                                                                                                                                                                              | 45-PT-5006    | PRESSURE TRANSMITTER                                   | 17039-EK-P-DW-0210-01                   | EK-MBF-3000                       | PSD | AI  | 11/FV   | 80  | 7       | 44-45.5 | MPC - 2 | 1/2"NPTF                  | SS316                                              | * | * | - | A         | - |  |
| 1792                                                                                                                                                                                              | 45-LG/LT-5007 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL<br>TRANSMITTER | 17039-EK-P-DW-0210-01                   | EK-MBF-3000                       | DCS | AI  | 11/FV   | 80  | 7       | 44-45.5 | MPC - 2 | 2"/300#RF                 | SS316                                              | * | * | - | A         | - |  |
| 1793                                                                                                                                                                                              | 45-PT-5003B   | PRESSURE TRANSMITTER                                   | 17039-EK-P-DW-0210-01                   | OUTLET OF EK-MBF-3000             | DCS | AI  | 11/FV   | 80  | 7       | 44-45.5 | MPC - 2 | 1/2"NPTF                  | SS316                                              | * | * | - | A         | - |  |
| 1794                                                                                                                                                                                              | 45-LV-5009    | LEVEL CONTROL VALVE                                    | 17039-EK-P-DW-0210-01                   | 2"-PL-45-5005-AC01                | N/A | N/A | 11/FV   | 80  | 7       | 44-45.5 | MPC - 2 | 1"/150#RF                 | SS316                                              | * | * | - | A         | - |  |
|                                                                                                                                                                                                   |               |                                                        |                                         |                                   |     |     |         |     |         |         |         |                           |                                                    |   |   |   |           |   |  |

|                                                                                                                                                                                                   |               |                                                     |                                                                                                   |                       |     |     |          |     |     |         |         |                       |                                   |   |   |           |   |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------|-----|-----|----------|-----|-----|---------|---------|-----------------------|-----------------------------------|---|---|-----------|---|---|--|
| <div><div></div><div></div></div> |               |                                                     | CLIENT : OIL INDIA LIMITED                                                                        |                       |     |     |          |     |     |         |         |                       |                                   |   |   | DOC NO. : |   |   |  |
|                                                                                                                                                                                                   |               |                                                     | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |                       |     |     |          |     |     |         |         |                       |                                   |   |   | REV NO. : |   |   |  |
|                                                                                                                                                                                                   |               |                                                     |                                                                                                   |                       |     |     |          |     |     |         |         |                       |                                   |   |   | DATE :    |   |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |               |                                                     |                                                                                                   |                       |     |     |          |     |     |         |         |                       |                                   |   |   |           |   |   |  |
| 1817                                                                                                                                                                                              | 45-PDT-5014   | DIFFERENCIAL PRESSURE TRANSMITTER                   | 17039-EK-P-DW-0210-02                                                                             | ACROSS EK-MAJ-3010B   | DCS | AI  | 11/FV    | 80  | 6.8 | 44-45.5 | MPC - 2 | 1/2"NPTF              | SS316                             | * | * | -         | A | - |  |
| 1818                                                                                                                                                                                              | 45-PSV-5001   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0210-02                                                                             | 2"-FG-45-5048-AC01    | N/A | N/A | 11/FV    | 80  | 6.8 | 44-45.5 | MPC - 2 | 1" D 2"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1819                                                                                                                                                                                              | 45-PSV-5002   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0210-02                                                                             | 2"-FG-45-5609-AC01    | N/A | N/A | 11/FV    | 80  | 6.8 | 44-45.5 | MPC - 2 | 1" D 2"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1820                                                                                                                                                                                              | 45-TW-5020    | THERMOWELL                                          | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5007-AC01    | N/A | N/A | 11/FV    | 80  | 6.8 | 44-45.5 | MPC - 2 | 1 1/2"/150#RF         | SS316                             | * | * | -         | A | - |  |
| 1821                                                                                                                                                                                              | 45-TT-5020    | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5007-AC01    | DCS | AI  | 11/FV    | 80  | 6.8 | 44-45.5 | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | -         | A | - |  |
| 1822                                                                                                                                                                                              | 45-PI-5034    | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0210-03                                                                             | EK-NAP-3020A          | N/A | N/A | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | -         | A | - |  |
| 1823                                                                                                                                                                                              | 45-TSIT-5028A | TEMPERATURE SAFETY INDICATING TRANSMITTER           | 17039-EK-P-DW-0210-03                                                                             | EK-NAP-3020A          | PSD | AI  | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | N/A                   | SS316                             | * | * | -         | A | - |  |
| 1824                                                                                                                                                                                              | 45-TSIT-5029A | TEMPERATURE SAFETY INDICATING TRANSMITTER           | 17039-EK-P-DW-0210-03                                                                             | EK-NAP-3020A          | PSD | AI  | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | N/A                   | SS316                             | * | * | -         | A | - |  |
| 1825                                                                                                                                                                                              | 45-TSIT-5030A | TEMPERATURE SAFETY INDICATING TRANSMITTER           | 17039-EK-P-DW-0210-03                                                                             | EK-NAP-3020A          | PSD | AI  | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | N/A                   | SS316                             | * | * | -         | A | - |  |
| 1826                                                                                                                                                                                              | 45-PI-5035    | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0210-03                                                                             | EK-NAP-3020A          | N/A | N/A | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | -         | A | - |  |
| 1827                                                                                                                                                                                              | 45-TSIT-5028B | TEMPERATURE SAFETY INDICATING TRANSMITTER           | 17039-EK-P-DW-0210-03                                                                             | EK-NAP-3020A          | PSD | AI  | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | N/A                   | SS316                             | * | * | -         | A | - |  |
| 1828                                                                                                                                                                                              | 45-TSIT-5029B | TEMPERATURE SAFETY INDICATING TRANSMITTER           | 17039-EK-P-DW-0210-03                                                                             | EK-NAP-3020A          | PSD | AI  | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | N/A                   | SS316                             | * | * | -         | A | - |  |
| 1829                                                                                                                                                                                              | 45-TSIT-5030B | TEMPERATURE SAFETY INDICATING TRANSMITTER           | 17039-EK-P-DW-0210-03                                                                             | EK-NAP-3020A          | PSD | AI  | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | N/A                   | SS316                             | * | * | -         | A | - |  |
| 1830                                                                                                                                                                                              | 45-PSV-5004   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0210-03                                                                             | 2"-FG-45-5023-AC01    | N/A | N/A | 11/FV    | 100 | 6   | 64-66   | MPC - 2 | 1" D 2"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1831                                                                                                                                                                                              | 45-PSV-5005   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0210-03                                                                             | 2"-FH-45-4217-AC01    | N/A | N/A | 11/FV    | 100 | 6.5 | 64-66   | MPC - 2 | 1" D 2"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1832                                                                                                                                                                                              | 45-FT-5025    | DP TYPE FLOW TRANSMITTER                            | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5009-AC01    | DCS | AI  | 11/FV    | 100 | 6.5 | 44-45.5 | MPC - 2 | 1/2"NPTF              | SS316                             | * | * | -         | A | - |  |
| 1833                                                                                                                                                                                              | 45-FE-5025    | FLOW ELEMENT (ORIFICE)                              | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5009-AC01    | N/A | N/A | 11/FV    | 100 | 6.5 | 44-45.5 | MPC - 2 | 4"/150#RF             | SS316                             | * | * | -         | A | - |  |
| 1834                                                                                                                                                                                              | 45-TW-5022    | THERMOWELL                                          | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5008-AC01    | N/A | N/A | 11/FV    | 100 | 6   | 44-45.5 | MPC - 2 | 1 1/2"/150#RF         | SS316                             | * | * | -         | A | - |  |
| 1835                                                                                                                                                                                              | 45-TT-5022    | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5008-AC01    | DCS | AI  | 11/FV    | 100 | 6   | 44-45.5 | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | -         | A | - |  |
| 1836                                                                                                                                                                                              | 45-TW-5023    | THERMOWELL                                          | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5008-AC01    | N/A | N/A | 11/FV    | 100 | 6   | 65      | MPC - 2 | 1 1/2"/150#RF         | SS316                             | * | * | -         | A | - |  |
| 1837                                                                                                                                                                                              | 45-TT-5023    | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5008-AC01    | PSD | AI  | 11/FV    | 100 | 6   | 44-45.5 | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | -         | A | - |  |
| 1838                                                                                                                                                                                              | 45-PT-5024    | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5008-AC01    | PSD | AI  | 11/FV    | 100 | 6   | 44-45.5 | MPC - 2 | 1/2"NPTF              | SS316                             | * | * | -         | A | - |  |
| 1839                                                                                                                                                                                              | 45-SDV-5026   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0210-03                                                                             | 4"-FG-45-5009-AC01    | N/A | N/A | 11/FV    | 100 | 6   | 65      | MPC - 2 | 4"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |  |
| 1840                                                                                                                                                                                              | 45-SXV-5026   | SOLENOID VALVE                                      | 17039-EK-P-DW-0210-03                                                                             | N/A                   | PSD | DO  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | SS316                             | * | * | -         | A | - |  |
| 1841                                                                                                                                                                                              | 45-ZSL-5026   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0210-03                                                                             | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1842                                                                                                                                                                                              | 45-ZSH-5026   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0210-03                                                                             | N/A                   | DCS | DI  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1843                                                                                                                                                                                              | 45-XS-3020    | PSD TRIP                                            | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | PSD | DO  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1844                                                                                                                                                                                              | 45-XXS-3020   | ESD TRIP                                            | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | ESD | DO  | N/A      | N/A | -   | -       | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1845                                                                                                                                                                                              | 45-SXA-5031   | SHUTDOWN FEEDBACK                                   | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DI  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1846                                                                                                                                                                                              | 45-XA-3020    | COMMON FAULT                                        | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DI  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1847                                                                                                                                                                                              | 45-XI-3020A   | RUNNING                                             | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DI  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1848                                                                                                                                                                                              | 45-XI-3020B   | RUNNING                                             | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DI  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1849                                                                                                                                                                                              | 45-XE-3020A   | LOCAL / REMOTE STATUS                               | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DI  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1850                                                                                                                                                                                              | 45-XE-3020B   | LOCAL / REMOTE STATUS                               | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DI  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1851                                                                                                                                                                                              | 45-XC-3020AA  | REMOTE START HEATER - A                             | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DO  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1852                                                                                                                                                                                              | 45-XC-3020AB  | REMOTE STOP HEATER - A                              | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DO  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1853                                                                                                                                                                                              | 45-XC-3020BA  | REMOTE START HEATER - B                             | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DO  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1854                                                                                                                                                                                              | 45-XC-3020BB  | REMOTE STOP HEATER - B                              | 17039-EK-P-DW-0210-03                                                                             | EK-AG-3020            | DCS | DO  | N/A      | N/A | N/A | N/A     | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |  |
| 1855                                                                                                                                                                                              | 42-LG/LT-3817 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0211-01                                                                             | EK-ABJ-5000           | PSD | AI  | FOW+0.07 | 80  | ATM | AMB     | MPC - 2 | 2"/150#RF             | SS316L                            | * | * | -         | A | - |  |
| 1856                                                                                                                                                                                              | 42-PCV-3840A  | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0211-01                                                                             | 1/2"-CE-42-3893A-GT20 | N/A | N/A | 10       | 80  | 7.5 | AMB     | MPC - 2 | 1/2"NPT               | BODY/TRIM : SS316                 | * | * | -         | A | - |  |
| 1857                                                                                                                                                                                              | 42-PCV-3840B  | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0211-01                                                                             | 1/2"-CE-42-3893B-GT20 | N/A | N/A | 10       | 80  | 7.5 | AMB     | MPC - 2 | 1/2"NPT               | BODY/TRIM : SS316                 | * | * | -         | A | - |  |
| 1858                                                                                                                                                                                              | 42-PI-3818A   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-01                                                                             | PBA-5010A OUTLET      | N/A | N/A | 10       | 80  | 7.5 | AMB     | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A | - |  |
| 1859                                                                                                                                                                                              | 42-PI-3818B   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-01                                                                             | PBA-5010B OUTLET      | N/A | N/A | 10       | 80  | 7.5 | AMB     | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A | - |  |
| 1860                                                                                                                                                                                              | 42-PSV-3864A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-01                                                                             | 1/2"-CE-42-3836A-GT20 | N/A | N/A | 10       | 80  | 7.5 | AMB     | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A | - |  |
| 1861                                                                                                                                                                                              | 42-PSV-3864B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-01                                                                             | 1/2"-CE-42-3836B-GT20 | N/A | N/A | 10       | 80  | 7.5 | AMB     | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A | - |  |
| 1862                                                                                                                                                                                              | 42-PT-3819A   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-01                                                                             | PBA-5010A OUTLET      | USD | AI  | 10       | 80  | 7.5 | AMB     | MPC - 2 | 1/2"NPTF              | SS316L                            | * | * | -         | A | - |  |
| 1863                                                                                                                                                                                              | 4             |                                                     |                                                                                                   |                       |     |     |          |     |     |         |         |                       |                                   |   |   |           |   |   |  |

|                                                                                                                                                                                                                                                                                                                                                     |               |                                                     |                            |                       |     |     |          |     |     |     |         |                       |                   |   |        |           |   |   |
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| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an undertaking of India Corporation</small></div></div></div> |               |                                                     | CLIENT : OIL INDIA LIMITED |                       |     |     |          |     |     |     |         |                       |                   |   |        | DOC NO. : |   |   |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                   |               |                                                     |                            |                       |     |     |          |     |     |     |         |                       | REV NO. :         |   |        |           |   |   |
|                                                                                                                                                                                                                                                                                                                                                     |               |                                                     |                            |                       |     |     |          |     |     |     |         |                       |                   |   | DATE : |           |   |   |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |               |                                                     |                            |                       |     |     |          |     |     |     |         |                       |                   |   |        |           |   |   |
| 1878                                                                                                                                                                                                                                                                                                                                                | 42-LG/LT-3810 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0211-02      | EK-ABJ-5020           | PSD | AI  | FOW+0.07 | 80  | ATM | AMB | MPC - 2 | 2"/150#RF             | SS316L            | * | *      | -         | A | - |
| 1879                                                                                                                                                                                                                                                                                                                                                | 42-PCV-3834A  | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0211-02      | 1/2"-CO-42-3834A-GT20 | N/A | N/A | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPT               | BODY/TRIM : SS316 | * | *      | -         | A | - |
| 1880                                                                                                                                                                                                                                                                                                                                                | 42-PCV-3834B  | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0211-02      | 1/2"-CO-42-3834B-GT20 | N/A | N/A | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPT               | BODY/TRIM : SS316 | * | *      | -         | A | - |
| 1881                                                                                                                                                                                                                                                                                                                                                | 42-PI-3811A   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-02      | EK-PBA-5030A OUTLET   | N/A | N/A | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPTM              | SS316L            | * | *      | -         | A | - |
| 1882                                                                                                                                                                                                                                                                                                                                                | 42-PI-3811B   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-02      | EK- PBA-5030B OUTLET  | N/A | N/A | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPTM              | SS316L            | * | *      | -         | A | - |
| 1883                                                                                                                                                                                                                                                                                                                                                | 42-PSV-3835A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-02      | 1/2"-CO-42-3821A-GT20 | N/A | N/A | 110      | 80  | 95  | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316 | * | *      | -         | A | - |
| 1884                                                                                                                                                                                                                                                                                                                                                | 42-PSV-3835B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-02      | 1/2"-CO-42-3821B-GT20 | N/A | N/A | 110      | 80  | 95  | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316 | * | *      | -         | A | - |
| 1885                                                                                                                                                                                                                                                                                                                                                | 42-PT-3812A   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-02      | PBA-5030A OUTLET      | USD | AI  | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPTF              | SS316L            | * | *      | -         | A | - |
| 1886                                                                                                                                                                                                                                                                                                                                                | 42-PT-3812B   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-02      | PBA-5030B OUTLET      | USD | AI  | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPTF              | SS316L            | * | *      | -         | A | - |
| 1887                                                                                                                                                                                                                                                                                                                                                | 42-XC-5030A   | START / STOP                                        | 17039-EK-P-DW-0211-02      | EK-PM-5030A           | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1888                                                                                                                                                                                                                                                                                                                                                | 42-XI-5030A   | RUNNING                                             | 17039-EK-P-DW-0211-02      | EK-PM-5030A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1889                                                                                                                                                                                                                                                                                                                                                | 42-XA-5030A   | FAULT ALARM                                         | 17039-EK-P-DW-0211-02      | EK-PM-5030A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1890                                                                                                                                                                                                                                                                                                                                                | 42-XE-5030A   | AVAILABLE                                           | 17039-EK-P-DW-0211-02      | EK-PM-5030A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1891                                                                                                                                                                                                                                                                                                                                                | 42-XB-5030A   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-02      | EK-PM-5030A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1892                                                                                                                                                                                                                                                                                                                                                | 42-XS-5030A   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-02      | EK-PM-5030A           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1893                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5030A  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-02      | EK-PM-5030A           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1894                                                                                                                                                                                                                                                                                                                                                | 42-XC-5030B   | START / STOP                                        | 17039-EK-P-DW-0211-02      | EK-PM-5030B           | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1895                                                                                                                                                                                                                                                                                                                                                | 42-XI-5030B   | RUNNING                                             | 17039-EK-P-DW-0211-02      | EK-PM-5030B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1896                                                                                                                                                                                                                                                                                                                                                | 42-XA-5030B   | FAULT ALARM                                         | 17039-EK-P-DW-0211-02      | EK-PM-5030B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1897                                                                                                                                                                                                                                                                                                                                                | 42-XE-5030B   | AVAILABLE                                           | 17039-EK-P-DW-0211-02      | EK-PM-5030B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1898                                                                                                                                                                                                                                                                                                                                                | 42-XB-5030B   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-02      | EK-PM-5030B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1899                                                                                                                                                                                                                                                                                                                                                | 42-XS-5030B   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-02      | EK-PM-5030B           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1900                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5030B  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-02      | EK-PM-5030B           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1901                                                                                                                                                                                                                                                                                                                                                | 42-LG/LT-3833 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0211-03      | EK-ABJ-5040           | PSD | AI  | FOW+0.07 | 80  | ATM | AMB | MPC - 2 | 2"/150#RF             | SS316             | * | *      | -         | A | - |
| 1902                                                                                                                                                                                                                                                                                                                                                | 42-PI-3834A   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-03      | EK -PBA-5050A OUTLET  | N/A | N/A | 100      | 80  | 90  | AMB | MPC - 2 | 1/2"NPTM              | SS316L            | * | *      | -         | A | - |
| 1903                                                                                                                                                                                                                                                                                                                                                | 42-PI-3834B   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-03      | EK -PBA-5050B OUTLET  | N/A | N/A | 100      | 80  | 90  | AMB | MPC - 2 | 1/2"NPTM              | SS316L            | * | *      | -         | A | - |
| 1904                                                                                                                                                                                                                                                                                                                                                | 42-PSV-3917A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-03      | 1/2"-CK-42-3863A-GT20 | N/A | N/A | 100      | 80  | 90  | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316 | * | *      | -         | A | - |
| 1905                                                                                                                                                                                                                                                                                                                                                | 42-PSV-3917B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-03      | 1/2"-CK-42-3863B-GT20 | N/A | N/A | 100      | 80  | 90  | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316 | * | *      | -         | A | - |
| 1906                                                                                                                                                                                                                                                                                                                                                | 42-PT-3835A   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-03      | PBA-5050A OUTLET      | USD | AI  | 100      | 80  | 90  | AMB | MPC - 2 | 1/2"NPTF              | SS316L            | * | *      | -         | A | - |
| 1907                                                                                                                                                                                                                                                                                                                                                | 42-PT-3835B   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-03      | PBA-5050B OUTLET      | USD | AI  | 100      | 80  | 90  | AMB | MPC - 2 | 1/2"NPTF              | SS316L            | * | *      | -         | A | - |
| 1908                                                                                                                                                                                                                                                                                                                                                | 42-XC-5050A   | START / STOP                                        | 17039-EK-P-DW-0211-03      | EK-PM-5050A           | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1909                                                                                                                                                                                                                                                                                                                                                | 42-XI-5050A   | RUNNING                                             | 17039-EK-P-DW-0211-03      | EK-PM-5050A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1910                                                                                                                                                                                                                                                                                                                                                | 42-XA-5050A   | FAULT ALARM                                         | 17039-EK-P-DW-0211-03      | EK-PM-5050A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1911                                                                                                                                                                                                                                                                                                                                                | 42-XE-5050A   | AVAILABLE                                           | 17039-EK-P-DW-0211-03      | EK-PM-5050A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1912                                                                                                                                                                                                                                                                                                                                                | 42-XB-5050A   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-03      | EK-PM-5050A           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1913                                                                                                                                                                                                                                                                                                                                                | 42-XS-5050A   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-03      | EK-PM-5050A           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1914                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5050A  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-03      | EK-PM-5050A           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1915                                                                                                                                                                                                                                                                                                                                                | 42-XC-5050B   | START / STOP                                        | 17039-EK-P-DW-0211-03      | EK-PM-5050B           | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1916                                                                                                                                                                                                                                                                                                                                                | 42-XI-5050B   | RUNNING                                             | 17039-EK-P-DW-0211-03      | EK-PM-5050B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1917                                                                                                                                                                                                                                                                                                                                                | 42-XA-5050B   | FAULT ALARM                                         | 17039-EK-P-DW-0211-03      | EK-PM-5050B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1918                                                                                                                                                                                                                                                                                                                                                | 42-XE-5050B   | AVAILABLE                                           | 17039-EK-P-DW-0211-03      | EK-PM-5050B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1919                                                                                                                                                                                                                                                                                                                                                | 42-XB-5050B   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-03      | EK-PM-5050B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1920                                                                                                                                                                                                                                                                                                                                                | 42-XS-5050B   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-03      | EK-PM-5050B           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1921                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5050B  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-03      | EK-PM-5050B           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1922                                                                                                                                                                                                                                                                                                                                                | 42-LG/LT-3842 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0211-04      | EK-ABJ-5060           | PSD | AI  | FOW+0.07 | 85  | ATM | 55  | MPC - 2 | 2"/150#RF             | SS316             | * | *      | -         | A | - |
| 1923                                                                                                                                                                                                                                                                                                                                                | 42-XC-5070B   | START / STOP                                        | 17039-EK-P-DW-0211-04      | EK-PM-5070B           | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1924                                                                                                                                                                                                                                                                                                                                                | 42-XI-5070B   | RUNNING                                             | 17039-EK-P-DW-0211-04      | EK-PM-5070B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1925                                                                                                                                                                                                                                                                                                                                                | 42-XA-5070B   | FAULT ALARM                                         | 17039-EK-P-DW-0211-04      | EK-PM-5070B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1926                                                                                                                                                                                                                                                                                                                                                | 42-XE-5070B   | AVAILABLE                                           | 17039-EK-P-DW-0211-04      | EK-PM-5070B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1927                                                                                                                                                                                                                                                                                                                                                | 42-XB-5070B   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-04      | EK-PM-5070B           | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1928                                                                                                                                                                                                                                                                                                                                                | 42-XS-5070B   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-04      | EK-PM-5070B           | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A               | * | *      | -         | A | - |
| 1929                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5070B  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-04      | EK-PM-5070B           | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 |                       |                   |   |        |           |   |   |

|                                                                                                                                                                                                                                                                                                                                                     |               |                                                     |                            |                       |     |      |          |     |     |     |         |                       |                                   |   |   |           |           |   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|----------------------------|-----------------------|-----|------|----------|-----|-----|-----|---------|-----------------------|-----------------------------------|---|---|-----------|-----------|---|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an undertaking of India Corporation</small></div></div></div> |               |                                                     | CLIENT : OIL INDIA LIMITED |                       |     |      |          |     |     |     |         |                       |                                   |   |   | DOC NO. : |           |   |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                   |               |                                                     |                            |                       |     |      |          |     |     |     |         |                       |                                   |   |   |           | REV NO. : |   |  |
| DATE :                                                                                                                                                                                                                                                                                                                                              |               |                                                     |                            |                       |     |      |          |     |     |     |         |                       |                                   |   |   |           |           |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |               |                                                     |                            |                       |     |      |          |     |     |     |         |                       |                                   |   |   |           |           |   |  |
| 1939                                                                                                                                                                                                                                                                                                                                                | 41-ZSH-8047   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0211-04      | N/A                   | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1940                                                                                                                                                                                                                                                                                                                                                | 41-TV-8046    | TEMPERATURE CONTROL VALVE                           | 17039-EK-P-DW-0211-04      | 2"-HM-41-7803-BC01-1N | N/A | N/A  | FOW+0.07 | 85  | ATM | 55  | MPC - 2 | 1"/150#RF             | SS316                             | * | * | -         | A         | - |  |
| 1941                                                                                                                                                                                                                                                                                                                                                | 41-TY-8046    | POSITIONER                                          | 17039-EK-P-DW-0211-04      | N/A                   | DCS | AO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1942                                                                                                                                                                                                                                                                                                                                                | 42-TW-8049    | THERMOWELL                                          | 17039-EK-P-DW-0211-04      | EK-ABJ-5060           | N/A | N/A  | FOW+0.07 | 85  | ATM | 55  | MPC - 2 | 2"/150#RF             | SS316L                            | * | * | -         | A         | - |  |
| 1943                                                                                                                                                                                                                                                                                                                                                | 42-TT-8049    | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0211-04      | EK-ABJ-5060           | DCS | AI   | FOW+0.07 | 85  | ATM | 55  | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A         | - |  |
| 1944                                                                                                                                                                                                                                                                                                                                                | 42-TW-8050    | THERMOWELL                                          | 17039-EK-P-DW-0211-04      | EK-ABJ-5060           | N/A | N/A  | FOW+0.07 | 85  | ATM | 55  | MPC - 2 | 2"/150#RF             | SS316L                            | * | * | -         | A         | - |  |
| 1945                                                                                                                                                                                                                                                                                                                                                | 42-TT-8050    | TEMPERATURE TRANSMITTER                             | 17039-EK-P-DW-0211-04      | EK-ABJ-5060           | USD | AI   | FOW+0.07 | 85  | ATM | 55  | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A         | - |  |
| 1946                                                                                                                                                                                                                                                                                                                                                | 41-PSV-8048   | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-04      | 2"-HM-41-7806-AC01-3N | N/A | N/A  | 110      | 80  | 95  | 80  | MPC - 2 | 1" D 2"/150#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A         | - |  |
| 1947                                                                                                                                                                                                                                                                                                                                                | 42-XC-5070A   | START / STOP                                        | 17039-EK-P-DW-0211-04      | EK-PM-5070A           | DCS | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1948                                                                                                                                                                                                                                                                                                                                                | 42-XI-5070A   | RUNNING                                             | 17039-EK-P-DW-0211-04      | EK-PM-5070A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1949                                                                                                                                                                                                                                                                                                                                                | 42-XA-5070A   | FAULT ALARM                                         | 17039-EK-P-DW-0211-04      | EK-PM-5070A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1950                                                                                                                                                                                                                                                                                                                                                | 42-XE-5070A   | AVAILABLE                                           | 17039-EK-P-DW-0211-04      | EK-PM-5070A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1951                                                                                                                                                                                                                                                                                                                                                | 42-XB-5070A   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-04      | EK-PM-5070A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1952                                                                                                                                                                                                                                                                                                                                                | 42-XS-5070A   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-04      | EK-PM-5070A           | USD | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1953                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5070A  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-04      | EK-PM-5070A           | ESD | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1954                                                                                                                                                                                                                                                                                                                                                | 42-LG/LT-3846 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0211-05      | EK-ABJ-5080           | PSD | AI   | FOW+0.07 | 80  | ATM | AMB | MPC - 2 | 2"/150#RF             | SS316L                            | * | * | -         | A         | - |  |
| 1955                                                                                                                                                                                                                                                                                                                                                | 42-PI-3847A   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-05      | PBA-5090A OUTLET      | N/A | N/A  | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A         | - |  |
| 1956                                                                                                                                                                                                                                                                                                                                                | 42-PI-3847B   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-05      | PBA-5090B OUTLET      | N/A | N/A  | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A         | - |  |
| 1957                                                                                                                                                                                                                                                                                                                                                | 42-PT-3848A   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-05      | PBA-5080A OUTLET      | USD | AI   | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/2"NPTF              | SS316                             | * | * | -         | A         | - |  |
| 1958                                                                                                                                                                                                                                                                                                                                                | 42-PT-3848B   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-05      | PBA-5080B OUTLET      | USD | AI   | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/2"NPTF              | SS316                             | * | * | -         | A         | - |  |
| 1959                                                                                                                                                                                                                                                                                                                                                | 42-XC-5090A   | START / STOP                                        | 17039-EK-P-DW-0211-05      | EK-PM-5090A           | DCS | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1960                                                                                                                                                                                                                                                                                                                                                | 42-XI-5090A   | RUNNING                                             | 17039-EK-P-DW-0211-05      | EK-PM-5090A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1961                                                                                                                                                                                                                                                                                                                                                | 42-XA-5090A   | FAULT ALARM                                         | 17039-EK-P-DW-0211-05      | EK-PM-5090A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1962                                                                                                                                                                                                                                                                                                                                                | 42-XE-5090A   | AVAILABLE                                           | 17039-EK-P-DW-0211-05      | EK-PM-5090A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1963                                                                                                                                                                                                                                                                                                                                                | 42-XB-5090A   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-05      | EK-PM-5090A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1964                                                                                                                                                                                                                                                                                                                                                | 42-XS-5090A   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-05      | EK-PM-5090A           | USD | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1965                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5090A  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-05      | EK-PM-5090A           | ESD | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1966                                                                                                                                                                                                                                                                                                                                                | 42-XC-5090B   | START / STOP                                        | 17039-EK-P-DW-0211-05      | EK-PM-5090B           | DCS | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1967                                                                                                                                                                                                                                                                                                                                                | 42-XI-5090B   | RUNNING                                             | 17039-EK-P-DW-0211-05      | EK-PM-5090B           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1968                                                                                                                                                                                                                                                                                                                                                | 42-XA-5090B   | FAULT ALARM                                         | 17039-EK-P-DW-0211-05      | EK-PM-5090B           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1969                                                                                                                                                                                                                                                                                                                                                | 42-XE-5090B   | AVAILABLE                                           | 17039-EK-P-DW-0211-05      | EK-PM-5090B           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1970                                                                                                                                                                                                                                                                                                                                                | 42-XB-5090B   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-05      | EK-PM-5090B           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1971                                                                                                                                                                                                                                                                                                                                                | 42-XS-5090B   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-05      | EK-PM-5090B           | USD | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1972                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5090B  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-05      | EK-PM-5090B           | ESD | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1973                                                                                                                                                                                                                                                                                                                                                | 42-PSV-3964A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-05      | 1/2"-CF-42-3897A-GT20 | N/A | N/A  | 100      | 85  | 90  | 55  | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A         | - |  |
| 1974                                                                                                                                                                                                                                                                                                                                                | 42-PSV-3964B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-05      | 1/2"-CF-42-3897B-GT20 | N/A | N/A  | 100      | 85  | 90  | 55  | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A         | - |  |
| 1975                                                                                                                                                                                                                                                                                                                                                | 42-LG/LT-3826 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0211-06      | EK-ABJ-5100           | PSD | AI   | FOW+0.07 | 80  | ATM | AMB | MPC - 2 | 2"/150#RF             | SS316L                            | * | * | -         | A         | - |  |
| 1976                                                                                                                                                                                                                                                                                                                                                | 42-PCV-3888A  | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0211-06      | 1/2"-CV-42-3845A-GT20 | N/A | N/A  | 110      | 80  | 95  | AMB | MPC - 2 | 1"/150#RF             | BODY/TRIM : SS316                 | * | * | -         | A         | - |  |
| 1977                                                                                                                                                                                                                                                                                                                                                | 42-PCV-3888B  | PRESSURE CONTROL VALVE                              | 17039-EK-P-DW-0211-06      | 1/2"-CV-42-3845B-GT20 | N/A | N/A  | 110      | 80  | 95  | AMB | MPC - 2 | 1"/150#RF             | BODY/TRIM : SS316                 | * | * | -         | A         | - |  |
| 1978                                                                                                                                                                                                                                                                                                                                                | 42-PI-3827A   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-06      | PBA-5110A OUTLET      | N/A | N/A  | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A         | - |  |
| 1979                                                                                                                                                                                                                                                                                                                                                | 42-PI-3827B   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-06      | PBA-5110B OUTLET      | N/A | N/A  | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A         | - |  |
| 1980                                                                                                                                                                                                                                                                                                                                                | 42-PSV-3894A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-06      | 1/2"-CV-42-3847A-GT20 | N/A | N/A  | 110      | 80  | 95  | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A         | - |  |
| 1981                                                                                                                                                                                                                                                                                                                                                | 42-PSV-3894B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-06      | 1/2"-CV-42-3847B-GT20 | N/A | N/A  | 110      | 80  | 95  | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A         | - |  |
| 1982                                                                                                                                                                                                                                                                                                                                                | 42-PT-3828A   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-06      | PBA-5110A OUTLET      | USD | AI   | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPTF              | SS316L                            | * | * | -         | A         | - |  |
| 1983                                                                                                                                                                                                                                                                                                                                                | 42-PT-3828B   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-06      | PBA-5110B OUTLET      | USD | AI   | 110      | 80  | 95  | AMB | MPC - 2 | 1/2"NPTF              | SS316L                            | * | * | -         | A         | - |  |
| 1984                                                                                                                                                                                                                                                                                                                                                | 42-XC-5110A   | START / STOP                                        | 17039-EK-P-DW-0211-06      | EK-PM-5110A           | DCS | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1985                                                                                                                                                                                                                                                                                                                                                | 42-XI-5110A   | RUNNING                                             | 17039-EK-P-DW-0211-06      | EK-PM-5110A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1986                                                                                                                                                                                                                                                                                                                                                | 42-XA-5110A   | FAULT ALARM                                         | 17039-EK-P-DW-0211-06      | EK-PM-5110A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1987                                                                                                                                                                                                                                                                                                                                                | 42-XE-5110A   | AVAILABLE                                           | 17039-EK-P-DW-0211-06      | EK-PM-5110A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1988                                                                                                                                                                                                                                                                                                                                                | 42-XB-5110A   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-06      | EK-PM-5110A           | DCS | DI   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1989                                                                                                                                                                                                                                                                                                                                                | 42-XS-5110A   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-06      | EK-PM-5110A           | USD | DO   | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A         | - |  |
| 1990                                                                                                                                                                                                                                                                                                                                                | 42-XXS-5110A  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-06      | EK-PM-5110A           | ESD | DO</ |          |     |     |     |         |                       |                                   |   |   |           |           |   |  |

|                                                                                                                                                                                                   |               |                                                     |                            |                        |     |     |          |     |     |     |         |                       |                                   |   |   |           |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------|----------------------------|------------------------|-----|-----|----------|-----|-----|-----|---------|-----------------------|-----------------------------------|---|---|-----------|---|---|
| <div><div></div><div></div></div> |               |                                                     | CLIENT : OIL INDIA LIMITED |                        |     |     |          |     |     |     |         |                       |                                   |   |   | DOC NO. : |   |   |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                 |               |                                                     |                            |                        |     |     |          |     |     |     |         |                       |                                   |   |   | REV NO. : |   |   |
| DATE :                                                                                                                                                                                            |               |                                                     |                            |                        |     |     |          |     |     |     |         |                       |                                   |   |   |           |   |   |
| INSTRUMENT INDEX                                                                                                                                                                                  |               |                                                     |                            |                        |     |     |          |     |     |     |         |                       |                                   |   |   |           |   |   |
| 2000                                                                                                                                                                                              | 42-PI-3838B   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-07      | PBA-5130B OUTLET       | N/A | N/A | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A | - |
| 2001                                                                                                                                                                                              | 42-PSV-3943A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-07      | 1/2"-CS-42-3874A-GT20  | N/A | N/A | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A | - |
| 2002                                                                                                                                                                                              | 42-PSV-3943B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-07      | 1/2"-CS-42-3874B-GT20  | N/A | N/A | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A | - |
| 2003                                                                                                                                                                                              | 42-PT-3839A   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-07      | PBA-5130A OUTLET       | USD | AI  | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/2"NPTF              | SS316L                            | * | * | -         | A | - |
| 2004                                                                                                                                                                                              | 42-PT-3839B   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-07      | PBA-5130B OUTLET       | USD | AI  | 8        | 80  | 6.5 | AMB | MPC - 2 | 1/2"NPTF              | SS316L                            | * | * | -         | A | - |
| 2005                                                                                                                                                                                              | 42-XC-5130A   | START / STOP                                        | 17039-EK-P-DW-0211-07      | EK-PM-5130A            | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2006                                                                                                                                                                                              | 42-XI-5130A   | RUNNING                                             | 17039-EK-P-DW-0211-07      | EK-PM-5130A            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2007                                                                                                                                                                                              | 42-XA-5130A   | FAULT ALARM                                         | 17039-EK-P-DW-0211-07      | EK-PM-5130A            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2008                                                                                                                                                                                              | 42-XE-5130A   | AVAILABLE                                           | 17039-EK-P-DW-0211-07      | EK-PM-5130A            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2009                                                                                                                                                                                              | 42-XB-5130A   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-07      | EK-PM-5130A            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2010                                                                                                                                                                                              | 42-XS-5130A   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-07      | EK-PM-5130A            | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2011                                                                                                                                                                                              | 42-XXS-5130A  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-07      | EK-PM-5130A            | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2012                                                                                                                                                                                              | 42-XC-5130B   | START / STOP                                        | 17039-EK-P-DW-0211-07      | EK-PM-5130B            | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2013                                                                                                                                                                                              | 42-XI-5130B   | RUNNING                                             | 17039-EK-P-DW-0211-07      | EK-PM-5130B            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2014                                                                                                                                                                                              | 42-XA-5130B   | FAULT ALARM                                         | 17039-EK-P-DW-0211-07      | EK-PM-5130B            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2015                                                                                                                                                                                              | 42-XE-5130B   | AVAILABLE                                           | 17039-EK-P-DW-0211-07      | EK-PM-5130B            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2016                                                                                                                                                                                              | 42-XB-5130B   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-07      | EK-PM-5130B            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2017                                                                                                                                                                                              | 42-XS-5130B   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-07      | EK-PM-5130B            | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2018                                                                                                                                                                                              | 42-XXS-5130B  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-07      | EK-PM-5130B            | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2019                                                                                                                                                                                              | 42-LG/LT-3852 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER | 17039-EK-P-DW-0211-08      | EK-ABJ-5140            | PSD | AI  | FOW+0.07 | 80  | ATM | AMB | MPC - 2 | 2"/150#RF             | SS316L                            | * | * | -         | A | - |
| 2020                                                                                                                                                                                              | 42-PI-3853A   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-08      | PBA-5150A OUTLET       | N/A | N/A | 30       | 80  | 23  | AMB | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A | - |
| 2021                                                                                                                                                                                              | 42-PI-3853B   | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0211-08      | PBA-5150B OUTLET       | N/A | N/A | 30       | 80  | 23  | AMB | MPC - 2 | 1/2"NPTM              | SS316L                            | * | * | -         | A | - |
| 2022                                                                                                                                                                                              | 42-PSV-3855A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-08      | 1/2"-CK-42-3863A-GT20  | N/A | N/A | 30       | 80  | 23  | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A | - |
| 2023                                                                                                                                                                                              | 42-PSV-3855B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0211-08      | 1/2"-CK-42-3863B-GT20  | N/A | N/A | 30       | 80  | 23  | AMB | MPC - 2 | 1/4" MNPT x 1/4" FNPT | BODY/TRIM : SS316                 | * | * | -         | A | - |
| 2024                                                                                                                                                                                              | 42-PT-3854A   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-08      | PBA-5150A OUTLET       | USD | AI  | 30       | 80  | 23  | AMB | MPC - 2 | 1/2"NPTF              | SS316L                            | * | * | -         | A | - |
| 2025                                                                                                                                                                                              | 42-PT-3854B   | PRESSURE TRANSMITTER                                | 17039-EK-P-DW-0211-08      | PBA-5150B OUTLET       | USD | AI  | 30       | 80  | 23  | AMB | MPC - 2 | 1/2"NPTF              | SS316L                            | * | * | -         | A | - |
| 2026                                                                                                                                                                                              | 42-XC-5150A   | START / STOP                                        | 17039-EK-P-DW-0211-08      | EK-PM-5150A            | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2027                                                                                                                                                                                              | 42-XI-5150A   | RUNNING                                             | 17039-EK-P-DW-0211-08      | EK-PM-5150A            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2028                                                                                                                                                                                              | 42-XA-5150A   | FAULT ALARM                                         | 17039-EK-P-DW-0211-08      | EK-PM-5150A            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2029                                                                                                                                                                                              | 42-XE-5150A   | AVAILABLE                                           | 17039-EK-P-DW-0211-08      | EK-PM-5150A            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2030                                                                                                                                                                                              | 42-XB-5150A   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-08      | EK-PM-5150A            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2031                                                                                                                                                                                              | 42-XS-5150A   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-08      | EK-PM-5150A            | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2032                                                                                                                                                                                              | 42-XXS-5150A  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-08      | EK-PM-5150A            | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2033                                                                                                                                                                                              | 42-XC-5150B   | START / STOP                                        | 17039-EK-P-DW-0211-08      | EK-PM-5150B            | DCS | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2034                                                                                                                                                                                              | 42-XI-5150B   | RUNNING                                             | 17039-EK-P-DW-0211-08      | EK-PM-5150B            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2035                                                                                                                                                                                              | 42-XA-5150B   | FAULT ALARM                                         | 17039-EK-P-DW-0211-08      | EK-PM-5150B            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2036                                                                                                                                                                                              | 42-XE-5150B   | AVAILABLE                                           | 17039-EK-P-DW-0211-08      | EK-PM-5150B            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2037                                                                                                                                                                                              | 42-XB-5150B   | TRIP FEEDBACK                                       | 17039-EK-P-DW-0211-08      | EK-PM-5150B            | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2038                                                                                                                                                                                              | 42-XS-5150B   | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-08      | EK-PM-5150B            | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2039                                                                                                                                                                                              | 42-XXS-5150B  | SHUTDOWN / TRIP                                     | 17039-EK-P-DW-0211-08      | EK-PM-5150B            | ESD | DO  | N/A      | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | -         | A | - |
| 2040                                                                                                                                                                                              | 53-FIT-5501   | MAGNETIC TYPE FLOW TRANSMITTER                      | 17039-EK-P-DW-0212-01      | 4"-WP-53-5590-AC01     | DCS | AI  | 7/FV     | 80  | 3   | AMB | MPC - 3 | 6"/150#RF             | SS316                             | * | * | -         | A | - |
| 2041                                                                                                                                                                                              | 53-FV-5501    | FLOW CONTROL VALVE                                  | 17039-EK-P-DW-0212-01      | 4"-WP-53-5590-AC01     | N/A | N/A | 7/FV     | 80  | 3   | AMB | MPC - 3 | 3"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |
| 2042                                                                                                                                                                                              | 53-FY-5501    | POSITIONER                                          | 17039-EK-P-DW-0212-01      | N/A                    | DCS | AO  | N/A      | N/A | N/A | N/A | MPC - 3 | N/A                   | N/A                               | * | * | -         | A | - |
| 2043                                                                                                                                                                                              | 53-PI-5557    | PRESSURE INDICATOR                                  | 17039-EK-P-DW-0212-01      | 4"-WP-53-5590-AC01     | N/A | N/A | 7/FV     | 80  | 3   | AMB | MPC - 3 | 1/2"NPTM              | SS316                             | * | * | -         | A | - |
| 2044                                                                                                                                                                                              | 53-PDIT-5558  | DIFFERENCIAL PRESSURE TRANSMITTER                   | 17039-EK-P-DW-0212-01      | ACROSS -EK- MAJ-3210 A | DCS | AI  | 7/FV     | 80  | 3   | AMB | MPC - 3 | 1/2"NPT               | SS316                             | * | * | -         | A | - |
| 2045                                                                                                                                                                                              | 53-PDIT-5559  | DIFFERENCIAL PRESSURE TRANSMITTER                   | 17039-EK-P-DW-0212-01      | ACROSS -EK- MAJ-3210 A | DCS | AI  | 7/FV     | 80  | 3   | AMB | MPC - 3 | 1/2"NPT               | SS316                             | * | * | -         | A | - |
| 2046                                                                                                                                                                                              | 53-PSV-5538A  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0212-01      | 2"-WP-53-5506-AC01     | N/A | N/A | 7/FV     | 80  | 3   | AMB | MPC - 3 | 1 1/2" F 2"/150#RF    | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |
| 2047                                                                                                                                                                                              | 53-PSV-5538B  | PRESSURE SAFETY VALVE                               | 17039-EK-P-DW-0212-01      | 2"-WP-53-5507-AC01     | N/A | N/A | 7/FV     | 80  | 3   | AMB | MPC - 3 | 1 1/2" F 2"/150#RF    | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |
| 2048                                                                                                                                                                                              | 53-SDV-5516   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0212-01      | 4"-WP-53-5504-AC01     | N/A | N/A | 7/FV     | 80  | 3   | AMB | MPC - 3 | 6"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | - |
| 2049                                                                                                                                                                                              | 53-SXV-5516   | SOLENOID VALVE                                      | 17039-EK-P-DW-0212-01      | N/A                    | USD | DO  | N/A      | N/A | N/A | N/A | MPC - 3 | N/A                   | SS316                             | * | * | -         | A | - |
| 2050                                                                                                                                                                                              | 53-ZSL-5516   | POSITION SWITCH LOW                                 | 17039-EK-P-DW-0212-01      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3 | N/A                   | N/A                               | * | * | -         | A | - |
| 2051                                                                                                                                                                                              | 53-ZSH-5516   | POSITION SWITCH HIGH                                | 17039-EK-P-DW-0212-01      | N/A                    | DCS | DI  | N/A      | N/A | N/A | N/A | MPC - 3 | N/A                   | N/A                               | * | * | -         | A | - |
| 2052                                                                                                                                                                                              | 53-SDV-5636   | SHUTDOWN VALVE                                      | 17039-EK-P-DW-0212-01      | 4"-WP-53-5508B-AC01    | N/A | N/A | 7/FV     | 80  | 3   | AMB | MPC - 3 |                       |                                   |   |   |           |   |   |

|                                                                                                                                                                                                                                                                                                                                                    |              |                                          |                            |                       |     |     |          |     |         |     |         |           |                                                   |   |   |   |           |   |           |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------|----------------------------|-----------------------|-----|-----|----------|-----|---------|-----|---------|-----------|---------------------------------------------------|---|---|---|-----------|---|-----------|--|--|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an enterprise of public importance</small></div></div></div> |              |                                          | CLIENT : OIL INDIA LIMITED |                       |     |     |          |     |         |     |         |           |                                                   |   |   |   | DOC NO. : |   |           |  |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                  |              |                                          |                            |                       |     |     |          |     |         |     |         |           |                                                   |   |   |   |           |   | REV NO. : |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                    |              |                                          |                            |                       |     |     |          |     |         |     |         |           |                                                   |   |   |   |           |   | DATE :    |  |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                   |              |                                          |                            |                       |     |     |          |     |         |     |         |           |                                                   |   |   |   |           |   |           |  |  |  |
| 2060                                                                                                                                                                                                                                                                                                                                               | 53-PI-XXXX   | PRESSURE INDICATOR                       | 17039-EK-P-DW-0212-01      | EK-PBA-3280A          | N/A | N/A | 7/FV     | 80  | 3       | AMB | MPC - 3 | 1/2"NPTM  | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2061                                                                                                                                                                                                                                                                                                                                               | 53-PI-XXXX   | PRESSURE INDICATOR                       | 17039-EK-P-DW-0212-01      | EK-PBA-3280B          | N/A | N/A | 7/FV     | 80  | 3       | AMB | MPC - 3 | 1/2"NPTM  | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2062                                                                                                                                                                                                                                                                                                                                               | 53-PI-XXXX   | PRESSURE INDICATOR                       | 17039-EK-P-DW-0212-01      | EK-PBA-3280C          | N/A | N/A | 7/FV     | 80  | 3       | AMB | MPC - 3 | 1/2"NPTM  | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2063                                                                                                                                                                                                                                                                                                                                               | 53-HS-5522   | UNIT SHUTDOWN                            | 17039-EK-P-DW-0212-03      | EK-ZZZ-3240A          | DCS | DO  | N/A      | -   | -       | -   | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2064                                                                                                                                                                                                                                                                                                                                               | 53-YL-5523   | RUNNING LIGHT                            | 17039-EK-P-DW-0212-03      | EK-ZZZ-3240A          | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2065                                                                                                                                                                                                                                                                                                                                               | 53-HS-5526   | UNIT SHUTDOWN                            | 17039-EK-P-DW-0212-03      | EK-ZZZ-3240A          | DCS | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2066                                                                                                                                                                                                                                                                                                                                               | 53-YL-5527   | RUNNING LIGHT                            | 17039-EK-P-DW-0212-03      | EK-ZZZ-3240A          | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2067                                                                                                                                                                                                                                                                                                                                               | 53-FV-5529   | FLOW CONTROL VALVE                       | 17039-EK-P-DW-0212-04      | 2"-WD-53-5538-AS20    | N/A | N/A | 10       | 80  | 4       | AMB | MPC - 3 | 1"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | - | A         | - |           |  |  |  |
| 2068                                                                                                                                                                                                                                                                                                                                               | 53-FY-5529   | POSITIONER                               | 17039-EK-P-DW-0212-04      | N/A                   | DCS | AO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2069                                                                                                                                                                                                                                                                                                                                               | 53-FT-5529   | MAGNETIC TYPE FLOW TRANSMITTER           | 17039-EK-P-DW-0212-04      | 3"-WD-53-5533-AS20    | DCS | AI  | 10       | 80  | 4       | AMB | MPC - 3 | 3"/150#RF | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2070                                                                                                                                                                                                                                                                                                                                               | 53-PI-5530A  | PRESSURE INDICATOR                       | 17039-EK-P-DW-0212-04      | 4"-WD-53-5531-AS20    | N/A | N/A | 10       | 80  | 4       | AMB | MPC - 3 | 1/2"NPTM  | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2071                                                                                                                                                                                                                                                                                                                                               | 53-PIT-5531A | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0212-04      | 4"-WD-53-5531-AS20    | USD | AI  | 10       | 80  | 4       | AMB | MPC - 3 | 1/2"NPTF  | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2072                                                                                                                                                                                                                                                                                                                                               | 53-XC-3250A  | START / STOP                             | 17039-EK-P-DW-0212-04      | EK-PM-3250A           | DCS | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2073                                                                                                                                                                                                                                                                                                                                               | 53-XI-3250A  | RUNNING                                  | 17039-EK-P-DW-0212-04      | EK-PM-3250A           | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2074                                                                                                                                                                                                                                                                                                                                               | 53-XA-3250A  | FAULT ALARM                              | 17039-EK-P-DW-0212-04      | EK-PM-3250A           | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2075                                                                                                                                                                                                                                                                                                                                               | 53-XE-3250A  | AVAILABLE                                | 17039-EK-P-DW-0212-04      | EK-PM-3250A           | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2076                                                                                                                                                                                                                                                                                                                                               | 53-XB-3250A  | TRIP FEEDBACK                            | 17039-EK-P-DW-0212-04      | EK-PM-3250A           | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2077                                                                                                                                                                                                                                                                                                                                               | 53-XS-3250A  | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0212-04      | EK-PM-3250A           | PSD | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2078                                                                                                                                                                                                                                                                                                                                               | 53-XXS-3250A | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0212-04      | EK-PM-3250A           | ESD | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2079                                                                                                                                                                                                                                                                                                                                               | 53-PI-5530B  | PRESSURE INDICATOR                       | 17039-EK-P-DW-0212-04      | 4"-WD-53-5532-AS20    | N/A | N/A | 10       | 80  | 4       | AMB | MPC - 3 | 1/2"NPTM  | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2080                                                                                                                                                                                                                                                                                                                                               | 53-PIT-5531B | PRESSURE TRANSMITTER                     | 17039-EK-P-DW-0212-04      | 4"-WD-53-5532-AS20    | USD | AI  | 10       | 80  | 4       | AMB | MPC - 3 | 1/2"NPTF  | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2081                                                                                                                                                                                                                                                                                                                                               | 53-XC-3250B  | START / STOP                             | 17039-EK-P-DW-0212-04      | EK-PM-3250B           | DCS | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2082                                                                                                                                                                                                                                                                                                                                               | 53-XI-3250B  | RUNNING                                  | 17039-EK-P-DW-0212-04      | EK-PM-3250B           | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2083                                                                                                                                                                                                                                                                                                                                               | 53-XA-3250B  | FAULT ALARM                              | 17039-EK-P-DW-0212-04      | EK-PM-3250B           | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2084                                                                                                                                                                                                                                                                                                                                               | 53-XE-3250B  | AVAILABLE                                | 17039-EK-P-DW-0212-04      | EK-PM-3250B           | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2085                                                                                                                                                                                                                                                                                                                                               | 53-XB-3250B  | TRIP FEEDBACK                            | 17039-EK-P-DW-0212-04      | EK-PM-3250B           | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2086                                                                                                                                                                                                                                                                                                                                               | 53-XS-3250B  | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0212-04      | EK-PM-3250B           | PSD | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2087                                                                                                                                                                                                                                                                                                                                               | 53-XXS-3250B | SHUTDOWN / TRIP                          | 17039-EK-P-DW-0212-04      | EK-PM-3250B           | ESD | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2088                                                                                                                                                                                                                                                                                                                                               | 53-SDV-5607  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0212-04      | 3"-WD-53-5534-AS20    | N/A | N/A | 10       | 80  | 4       | AMB | MPC - 3 | 3"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | - | A         | - |           |  |  |  |
| 2089                                                                                                                                                                                                                                                                                                                                               | 53-SXV-5607  | SOLENOID VALVE                           | 17039-EK-P-DW-0212-04      | N/A                   | USD | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2090                                                                                                                                                                                                                                                                                                                                               | 53-ZSL-5607  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0212-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2091                                                                                                                                                                                                                                                                                                                                               | 53-ZSH-5607  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0212-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2092                                                                                                                                                                                                                                                                                                                                               | 53-LG-5535   | REFLEX TYPE LEVEL INDICATOR              | 17039-EK-P-DW-0212-04      | EK-ABJ-3270           | N/A | N/A | FOW+0.07 | 80  | ATM     | AMB | MPC - 3 | 2"/150#RF | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2093                                                                                                                                                                                                                                                                                                                                               | 53-LG-5536   | REFLEX TYPE LEVEL INDICATOR              | 17039-EK-P-DW-0212-04      | EK-ABJ-3270           | N/A | N/A | FOW+0.07 | 80  | ATM     | AMB | MPC - 3 | 2"/150#RF | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2094                                                                                                                                                                                                                                                                                                                                               | 53-LIT-5538  | DP TYPE LEVEL TRANSMITTER                | 17039-EK-P-DW-0212-04      | EK-ABJ-3270           | USD | AI  | FOW+0.07 | 80  | ATM     | AMB | MPC - 3 | 1/2"NPT   | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2095                                                                                                                                                                                                                                                                                                                                               | 53-LIT-5541  | DP TYPE LEVEL TRANSMITTER                | 17039-EK-P-DW-0212-04      | EK-ABJ-3270           | USD | AI  | FOW+0.07 | 80  | ATM     | AMB | MPC - 3 | 1/2"NPT   | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2096                                                                                                                                                                                                                                                                                                                                               | 53-SDV-5630  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0212-04      | 3"-WD-53-5536-AS20    | N/A | N/A | FOW+0.07 | 80  | ATM     | AMB | MPC - 3 | 3"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | - | A         | - |           |  |  |  |
| 2097                                                                                                                                                                                                                                                                                                                                               | 53-SXV-5630  | SOLENOID VALVE                           | 17039-EK-P-DW-0212-04      | N/A                   | USD | DO  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2098                                                                                                                                                                                                                                                                                                                                               | 53-ZSL-5630  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0212-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2099                                                                                                                                                                                                                                                                                                                                               | 53-ZSH-5630  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0212-04      | N/A                   | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 3 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2100                                                                                                                                                                                                                                                                                                                                               | 45-SDV-5032  | SHUTDOWN VALVE                           | 17039-EK-P-DW-0213-01      | 2"-FG-45-5510-AC01    | N/A | N/A | 13.5     | 85  | 5.5-8.5 | 51  | MPC - 2 | 2"/150#RF | BODY : CARBONSTEEL<br>(GALVANIZED) / TRIM : SS316 | * | * | - | A         | - |           |  |  |  |
| 2101                                                                                                                                                                                                                                                                                                                                               | 45-SXV-5032  | SOLENOID VALVE                           | 17039-EK-P-DW-0213-01      | N/A                   | PSD | DO  | N/A      | N/A | N/A     | N/A | MPC - 2 | N/A       | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2102                                                                                                                                                                                                                                                                                                                                               | 45-ZSL-5032  | POSITION SWITCH LOW                      | 17039-EK-P-DW-0213-01      | N/A                   | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 2 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2103                                                                                                                                                                                                                                                                                                                                               | 45-ZSH-5032  | POSITION SWITCH HIGH                     | 17039-EK-P-DW-0213-01      | N/A                   | DCS | DI  | N/A      | N/A | N/A     | N/A | MPC - 2 | N/A       | N/A                                               | * | * | - | A         | - |           |  |  |  |
| 2104                                                                                                                                                                                                                                                                                                                                               | 45-PCV-5500  | PRESSURE CONTROL VALVE                   | 17039-EK-P-DW-0213-01      | 2"-FG-45-5510-AC01    | N/A | N/A | 13.5     | 85  | 6-9     | 51  | MPC - 2 | 1"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | - | A         | - |           |  |  |  |
| 2105                                                                                                                                                                                                                                                                                                                                               | 41-FT-3746   | DP TYPE FLOW TRANSMITTER                 | 17039-EK-P-DW-0213-01      | 6"-HM-41-3750-BC01-3N | DCS | AI  | 12/FV    | 250 | 6.5     | 100 | MPC - 2 | 1/2"NPTF  | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2106                                                                                                                                                                                                                                                                                                                                               | 41-FE-3746   | FLOW ELEMENT (ORIFICE)                   | 17039-EK-P-DW-0213-01      | 6"-HM-41-3750-BC01-3N | N/A | N/A | 12/FV    | 250 | 6.5     | 100 | MPC - 2 | 6"/300#RF | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2107                                                                                                                                                                                                                                                                                                                                               | 41-PT-3742B  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0213-01      | 6"-HM-41-3749-BC01-3N | PSD | AI  | 12/FV    | 250 | 6.5     | 100 | MPC - 2 | 2"/300#RF | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2108                                                                                                                                                                                                                                                                                                                                               | 41-PI-3741B  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0213-01      | 6"-HM-41-3749-BC01-3N | N/A | N/A | 12/FV    | 250 | 6.5     | 100 | MPC - 2 | 2"/300#RF | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2109                                                                                                                                                                                                                                                                                                                                               | 41-PT-3742A  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0213-01      | 6"-HM-41-3748-BC01-3N | PSD | AI  | 12/FV    | 250 | 6.5     | 100 | MPC - 2 | 2"/300#RF | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2110                                                                                                                                                                                                                                                                                                                                               | 41-PI-3741A  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-EK-P-DW-0213-01      | 6"-HM-41-3748-BC01-3N | N/A | N/A | 12/FV    | 250 | 6.5     | 100 | MPC - 2 | 2"/300#RF | SS316                                             | * | * | - | A         | - |           |  |  |  |
| 2111                                                                                                                                                                                                                                                                                                                                               | 41-XC-3350A  | START / STOP                             | 17039-EK-P-DW-0213-01      | EK-PM-3350A           | DCS |     |          |     |         |     |         |           |                                                   |   |   |   |           |   |           |  |  |  |

|                                                                                                                                                                                                   |              |                                               |                            |                        |     |     |       |     |     |       |         |                       |                                   |   |   |   |           |   |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------|----------------------------|------------------------|-----|-----|-------|-----|-----|-------|---------|-----------------------|-----------------------------------|---|---|---|-----------|---|--|--|
| <div><div></div><div></div></div> |              |                                               | CLIENT : OIL INDIA LIMITED |                        |     |     |       |     |     |       |         |                       |                                   |   |   |   | DOC NO. : |   |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                 |              |                                               |                            |                        |     |     |       |     |     |       |         |                       |                                   |   |   |   | REV NO. : |   |  |  |
|                                                                                                                                                                                                   |              |                                               |                            |                        |     |     |       |     |     |       |         |                       |                                   |   |   |   | DATE :    |   |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                                               |                            |                        |     |     |       |     |     |       |         |                       |                                   |   |   |   |           |   |  |  |
| 2121                                                                                                                                                                                              | 41-PSV-3750A | PRESSURE SAFETY VALVE                         | 17039-EK-P-DW-0213-01      | 2"-HM-41-3753-BC01-3N  | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1" D 2"/300#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2122                                                                                                                                                                                              | 41-PSV-3750B | PRESSURE SAFETY VALVE                         | 17039-EK-P-DW-0213-01      | 2"-HM-41-3753A-BC01-3N | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1" D 2"/300#RF        | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2123                                                                                                                                                                                              | 45-FV-3746   | FLOW CONTROL VALVE                            | 17039-EK-P-DW-0213-01      | 3"-HM-41-3763-BC01-3N  | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 2"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2124                                                                                                                                                                                              | 45-FY-3746   | POSITIONER                                    | 17039-EK-P-DW-0213-01      | N/A                    | DCS | AO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2125                                                                                                                                                                                              | 41-PCV-5500  | PRESSURE CONTROL VALVE                        | 17039-EK-P-DW-0213-01      | 2"-FG-45-5510-AC01     | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2126                                                                                                                                                                                              | 41-PCV-5501  | PRESSURE CONTROL VALVE                        | 17039-EK-P-DW-0213-01      | 2"-GF-43-4263-BC01-3N  | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2127                                                                                                                                                                                              | 41-PSV-3740A | PRESSURE SAFETY VALVE                         | 17039-EK-P-DW-0213-01      | 2"-HM-41-3754-BC01-3N  | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1"/300#RF D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2128                                                                                                                                                                                              | 41-PSV-3740B | PRESSURE SAFETY VALVE                         | 17039-EK-P-DW-0213-01      | 2"-HM-41-3755-BC01-3N  | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1"/300#RF D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2129                                                                                                                                                                                              | 41-XC-3350B  | START / STOP                                  | 17039-EK-P-DW-0213-01      | EK-PM-3350B            | DCS | DO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2130                                                                                                                                                                                              | 41-XI-3350B  | RUNNING                                       | 17039-EK-P-DW-0213-01      | EK-PM-3350B            | DCS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2131                                                                                                                                                                                              | 41-XA-3350B  | FAULT ALARM                                   | 17039-EK-P-DW-0213-01      | EK-PM-3350B            | DCS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2132                                                                                                                                                                                              | 41-XE-3350B  | AVAILABLE                                     | 17039-EK-P-DW-0213-01      | EK-PM-3350B            | DCS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2133                                                                                                                                                                                              | 41-XB-3350B  | TRIP FEEDBACK                                 | 17039-EK-P-DW-0213-01      | EK-PM-3350B            | DCS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2134                                                                                                                                                                                              | 41-XS-3350B  | SHUTDOWN / TRIP                               | 17039-EK-P-DW-0213-01      | EK-PM-3350B            | PSD | DO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2135                                                                                                                                                                                              | 41-XXS-3350B | SHUTDOWN / TRIP                               | 17039-EK-P-DW-0213-01      | EK-PM-3350B            | ESD | DO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2136                                                                                                                                                                                              | 41-LG-3737   | MAGNETIC TYPE LEVEL INDICATOR                 | 17039-EK-P-DW-0213-01      | EK-MBD-3310            | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 2"/300#RF             | SS316                             | * | * | - | A         | - |  |  |
| 2137                                                                                                                                                                                              | 41-PT-3739   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL      | 17039-EK-P-DW-0213-01      | EK-MBD-3310            | PSD | AI  | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 2"/300#RF             | SS316                             | * | * | - | A         | - |  |  |
| 2138                                                                                                                                                                                              | 41-PI-3738   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL        | 17039-EK-P-DW-0213-01      | EK-MBD-3310            | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 2"/300#RF             | SS316                             | * | * | - | A         | - |  |  |
| 2139                                                                                                                                                                                              | 41-LT-3736   | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0213-01      | EK-MBD-3310            | PSD | AI  | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 2"/300#RF             | SS316                             | * | * | - | A         | - |  |  |
| 2140                                                                                                                                                                                              | 41-LT-3733   | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0213-01      | EK-MBD-3310            | DCS | AI  | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 2"/300#RF             | SS316                             | * | * | - | A         | - |  |  |
| 2141                                                                                                                                                                                              | 41-TW-3734   | THERMOWELL                                    | 17039-EK-P-DW-0213-01      | EK-MBD-3310            | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 2"/300#RF             | SS316                             | * | * | - | A         | - |  |  |
| 2142                                                                                                                                                                                              | 41-TI-3734   | TEMPERATURE INDICATOR                         | 17039-EK-P-DW-0213-01      | EK-MBD-3310            | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | - | A         | - |  |  |
| 2143                                                                                                                                                                                              | 63-PT-6423   | PRESSURE TRANSMITTER                          | 17039-EK-P-DW-0213-02      | 2"-UA-63-6428-AG01     | PSD | AI  | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | - | A         | - |  |  |
| 2144                                                                                                                                                                                              | 45-FT-5503   | DP TYPE FLOW TRANSMITTER                      | 17039-EK-P-DW-0213-02      | 2"-FG-45-5022-AC01     | BMS | AI  | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1/2"NPTF              | SS316                             | * | * | - | A         | - |  |  |
| 2145                                                                                                                                                                                              | 45-FE-5503   | FLOW ELEMENT (ORIFICE)                        | 17039-EK-P-DW-0213-02      | 2"-FG-45-5022-AC01     | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 2"/150#RF             | SS316                             | * | * | - | A         | - |  |  |
| 2146                                                                                                                                                                                              | 45-FV-5503   | FLOW CONTROL VALVE                            | 17039-EK-P-DW-0213-02      | 2"-FG-45-5504-AC01     | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2147                                                                                                                                                                                              | 45-SDV-5503  | SOLENOID VALVE                                | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2148                                                                                                                                                                                              | 45-FY-5503   | POSITIONER                                    | 17039-EK-P-DW-0213-02      | N/A                    | BMS | AO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2149                                                                                                                                                                                              | 41-TW-3755   | THERMOWELL                                    | 17039-EK-P-DW-0213-02      | 6"-HM-41-3764-BC01-1N  | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 11/2"/300#RF          | SS316                             | * | * | - | A         | - |  |  |
| 2150                                                                                                                                                                                              | 41-TT-3755   | TEMPERATURE TRANSMITTER                       | 17039-EK-P-DW-0213-02      | 6"-HM-41-3764-BC01-1N  | BMS | AI  | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | - | A         | - |  |  |
| 2151                                                                                                                                                                                              | 41-SDV-3764  | SHUTDOWN VALVE                                | 17039-EK-P-DW-0213-02      | 6"-HM-41-3786-BC01-1N  | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 6"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2152                                                                                                                                                                                              | 41-SXV-3764  | SOLENOID VALVE                                | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | SS316                             | * | * | - | A         | - |  |  |
| 2153                                                                                                                                                                                              | 41-ZSL-3764  | POSITION SWITCH LOW                           | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2154                                                                                                                                                                                              | 41-ZSH-3764  | POSITION SWITCH HIGH                          | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2155                                                                                                                                                                                              | 64-PCV-6661  | PRESSURE CONTROL VALVE                        | 17039-EK-P-DW-0213-02      | 2"-FG-45-5022-AC01     | N/A | N/A | 11/FV | 100 | 6.5 | 64-66 | MPC - 2 | 1"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2156                                                                                                                                                                                              | 41-TW-3756   | THERMOWELL                                    | 17039-EK-P-DW-0213-02      | 6"-HM-41-3764-BC01-1N  | N/A | N/A | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1 1/2"/300#RF         | SS316                             | * | * | - | A         | - |  |  |
| 2157                                                                                                                                                                                              | 41-TT-3756   | TEMPERATURE TRANSMITTER                       | 17039-EK-P-DW-0213-02      | 6"-HM-41-3764-BC01-1N  | BMS | AI  | 12/FV | 250 | 6.5 | 100   | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | - | A         | - |  |  |
| 2158                                                                                                                                                                                              | 45-SDV-5506  | SHUTDOWN VALVE                                | 17039-EK-P-DW-0213-02      | 2"-FG-45-5505-AC01     | N/A | N/A | 11/FV | 100 | 6   | 64-66 | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2159                                                                                                                                                                                              | 45-SXV-5506  | SOLENOID VALVE                                | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | SS316                             | * | * | - | A         | - |  |  |
| 2160                                                                                                                                                                                              | 45-ZSL-5506  | POSITION SWITCH LOW                           | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2161                                                                                                                                                                                              | 45-ZSH-5506  | POSITION SWITCH HIGH                          | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2162                                                                                                                                                                                              | 45-SDV-8013  | SHUTDOWN VALVE                                | 17039-EK-P-DW-0213-02      | 2"-FG-45-5505-AC01     | N/A | N/A | 11/FV | 100 | 6   | 64-66 | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A         | - |  |  |
| 2163                                                                                                                                                                                              | 45-SXV-8013  | SOLENOID VALVE                                | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DO  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | SS316                             | * | * | - | A         | - |  |  |
| 2164                                                                                                                                                                                              | 45-ZSL-8013  | POSITION SWITCH LOW                           | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DI  | N/A   | N/A | N/A | N/A   | MPC - 2 | N/A                   | N/A                               | * | * | - | A         | - |  |  |
| 2165                                                                                                                                                                                              | 45-ZSH-8013  | POSITION SWITCH HIGH                          | 17039-EK-P-DW-0213-02      | N/A                    | BMS | DI  | N/A   | N/A |     |       |         |                       |                                   |   |   |   |           |   |  |  |

|                                                                                                                                                                                                   |              |                                                          |                                                                                                                                                            |                       |     |     |       |     |     |     |         |                       |                                   |   |   |   |                                                             |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|-----|-------|-----|-----|-----|---------|-----------------------|-----------------------------------|---|---|---|-------------------------------------------------------------|---|--|
| <div><div></div><div></div></div> |              |                                                          | <div>CLIENT : OIL INDIA LIMITED</div> <div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div> |                       |     |     |       |     |     |     |         |                       |                                   |   |   |   | <div>DOC NO. :</div> <div>REV NO. :</div> <div>DATE :</div> |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                                                          |                                                                                                                                                            |                       |     |     |       |     |     |     |         |                       |                                   |   |   |   |                                                             |   |  |
| 2182                                                                                                                                                                                              | 45-XV-5512   | ON/OFF VALVE                                             | 17039-EK-P-DW-0213-02                                                                                                                                      | 2"-FG-45-5505-AC01    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2183                                                                                                                                                                                              | 45-XY-5512   | SOLENOID VALVE                                           | 17039-EK-P-DW-0213-02                                                                                                                                      | N/A                   | BMS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2184                                                                                                                                                                                              | 45-ZSL-5512  | POSITION SWITCH LOW                                      | 17039-EK-P-DW-0213-02                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2185                                                                                                                                                                                              | 45-ZSH-5512  | POSITION SWITCH HIGH                                     | 17039-EK-P-DW-0213-02                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2186                                                                                                                                                                                              | 45-XV-5513   | ON/OFF VALVE                                             | 17039-EK-P-DW-0213-02                                                                                                                                      | 2"-FG-45-5504-AC01    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2187                                                                                                                                                                                              | 45-XY-5513   | SOLENOID VALVE                                           | 17039-EK-P-DW-0213-02                                                                                                                                      | N/A                   | BMS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2188                                                                                                                                                                                              | 45-ZSL-5513  | POSITION SWITCH LOW                                      | 17039-EK-P-DW-0213-02                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2189                                                                                                                                                                                              | 45-ZSH-5513  | POSITION SWITCH HIGH                                     | 17039-EK-P-DW-0213-02                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2190                                                                                                                                                                                              | 45-BSL-5507  | BURNER SWITCH                                            | 17039-EK-P-DW-0213-02                                                                                                                                      | BURNER                | BMS | DI  | 12/FV | 250 | 6.5 | 100 | MPC - 2 |                       | SS316                             | * | * | - | A                                                           | - |  |
| 2191                                                                                                                                                                                              | 45-XI-5509   | BURNER ON / OFF                                          | 17039-EK-P-DW-0213-02                                                                                                                                      | BMS TO PCS            | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2192                                                                                                                                                                                              | 45-XA-5509   | BURNER FAIL                                              | 17039-EK-P-DW-0213-02                                                                                                                                      | BMS TO PCS            | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2193                                                                                                                                                                                              | 45-HS-5509   | BURNER STOP                                              | 17039-EK-P-DW-0213-02                                                                                                                                      | BMS TO PCS            | BMS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2194                                                                                                                                                                                              | 63-XC-3370A  | START / STOP                                             | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | DCS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2195                                                                                                                                                                                              | 63-XI-3370A  | RUNNING                                                  | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | DCS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2196                                                                                                                                                                                              | 63-XA-3370A  | FAULT ALARM                                              | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | DCS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2197                                                                                                                                                                                              | 63-XE-3370A  | AVAILABLE                                                | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | DCS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2198                                                                                                                                                                                              | 63-XB-3370A  | TRIP FEEDBACK                                            | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | DCS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2199                                                                                                                                                                                              | 63-XS-3370A  | SHUTDOWN / TRIP                                          | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | PSD | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2200                                                                                                                                                                                              | 63-XXS-3370A | SHUTDOWN / TRIP                                          | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | ESD | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2201                                                                                                                                                                                              | 63-FV-6425   | FLOW CONTROL VALVE                                       | 17039-EK-P-DW-0213-02                                                                                                                                      | 2"-UA-63-6424-AG01    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2202                                                                                                                                                                                              | 63-FY-6425   | POSITIONER                                               | 17039-EK-P-DW-0213-02                                                                                                                                      | N/A                   | BMS | AO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2203                                                                                                                                                                                              | 63-SDY-6425  | SOLENOID VALVE                                           | 17039-EK-P-DW-0213-02                                                                                                                                      | N/A                   | BMS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2204                                                                                                                                                                                              | 45-TW-5508   | THERMOWELL                                               | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 2"/150#RF             | SS316                             | * | * | - | A                                                           | - |  |
| 2205                                                                                                                                                                                              | 45-TT-5508   | TEMPERATURE TRANSMITTER                                  | 17039-EK-P-DW-0213-02                                                                                                                                      | EK-PM-3370B           | BMS | AI  | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | - | A                                                           | - |  |
| 2206                                                                                                                                                                                              | 41-PSV-3757A | PRESSURE SAFETY VALVE                                    | 17039-EK-P-DW-0213-02                                                                                                                                      | 2"-HM-3769-BC01-3N    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1"/300#RF D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2207                                                                                                                                                                                              | 41-PSV-3757B | PRESSURE SAFETY VALVE                                    | 17039-EK-P-DW-0213-02                                                                                                                                      | 2"-HM-3770-BC01-3N    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1"/300#RF D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2208                                                                                                                                                                                              | 41-TW-3751   | THERMOWELL                                               | 17039-EK-P-DW-0213-02                                                                                                                                      | 6"-HM-41-3750-BC01-3N | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1 1/2"/150#RF         | SS316                             | * | * | - | A                                                           | - |  |
| 2209                                                                                                                                                                                              | 41-TI-3751   | TEMPERATURE INDICATOR                                    | 17039-EK-P-DW-0213-02                                                                                                                                      | 6"-HM-41-3750-BC01-3N | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | - | A                                                           | - |  |
| 2210                                                                                                                                                                                              | 41-PDT-3753  | DIFFERENTIAL PRESSURE TRANSMITTER WITH<br>DIAPHRAGM SEAL | 17039-EK-P-DW-0213-02                                                                                                                                      | ACROSS EK-MBK-3360B   | BMS | AI  | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 2"/150#RF             | SS316                             | * | * | - | A                                                           | - |  |
| 2211                                                                                                                                                                                              | 63-PT-6429   | PRESSURE TRANSMITTER                                     | 17039-EK-P-DW-0213-03                                                                                                                                      | 2"-UA-63-6428-AG01    | BMS | AI  | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1/2"NPTF              | SS316                             | * | * | - | A                                                           | - |  |
| 2212                                                                                                                                                                                              | 45-FT-5515   | DP TYPE FLOW TRANSMITTER                                 | 17039-EK-P-DW-0213-03                                                                                                                                      | 2"-FG-45-5507-AC01    | BMS | AI  | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1/2"NPTF              | SS316                             | * | * | - | A                                                           | - |  |
| 2213                                                                                                                                                                                              | 45-FE-5515   | FLOW ELEMENT (ORIFICE)                                   | 17039-EK-P-DW-0213-03                                                                                                                                      | 2"-FG-45-5507-AC01    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 2"/150#RF             | SS316                             | * | * | - | A                                                           | - |  |
| 2214                                                                                                                                                                                              | 45-FV-5503   | FLOW CONTROL VALVE                                       | 17039-EK-P-DW-0213-03                                                                                                                                      | 2"-FG-45-5507-AC01    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2215                                                                                                                                                                                              | 41-SXV-5503  | SOLENOID VALVE                                           | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | SS316                             | * | * | - | A                                                           | - |  |
| 2216                                                                                                                                                                                              | 45-FY-5503   | POSITIONER                                               | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | AO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2217                                                                                                                                                                                              | 41-TW-3772   | THERMOWELL                                               | 17039-EK-P-DW-0213-03                                                                                                                                      | 6"-HM-41-3787-BC01-1N | N/A | N/A | 12/FV | 250 | 5.5 | 200 | MPC - 2 | 11/2"/300#RF          | SS316                             | * | * | - | A                                                           | - |  |
| 2218                                                                                                                                                                                              | 41-TT-3772   | TEMPERATURE TRANSMITTER                                  | 17039-EK-P-DW-0213-03                                                                                                                                      | 6"-HM-41-3787-BC01-1N | BMS | AI  | 12/FV | 250 | 5.5 | 200 | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | - | A                                                           | - |  |
| 2219                                                                                                                                                                                              | 41-SDV-3766  | SHUTDOWN VALVE                                           | 17039-EK-P-DW-0213-03                                                                                                                                      | 6"-HM-41-3786-BC01-3N | N/A | N/A | 12/FV | 250 | 5.5 | 200 | MPC - 2 | 6"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2220                                                                                                                                                                                              | 41-SXV-3766  | SOLENOID VALVE                                           | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | SS316                             | * | * | - | A                                                           | - |  |
| 2221                                                                                                                                                                                              | 41-ZSL-3766  | POSITION SWITCH LOW                                      | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2222                                                                                                                                                                                              | 41-ZSH-3766  | POSITION SWITCH HIGH                                     | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2223                                                                                                                                                                                              | 64-PCV-8013  | PRESSURE CONTROL VALVE                                   | 17039-EK-P-DW-0213-03                                                                                                                                      | 2"-FG-45-5509-AC01    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 1"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2224                                                                                                                                                                                              | 41-TW-3773   | THERMOWELL                                               | 17039-EK-P-DW-0213-03                                                                                                                                      | 6"-HM-41-3787-BC01-1N | N/A | N/A | 12/FV | 250 | 5.5 | 200 | MPC - 2 | 1 1/2"/300#RF         | SS316                             | * | * | - | A                                                           | - |  |
| 2225                                                                                                                                                                                              | 41-TT-3773   | TEMPERATURE TRANSMITTER                                  | 17039-EK-P-DW-0213-03                                                                                                                                      | 6"-HM-41-3787-BC01-1N | BMS | AI  | 12/FV | 250 | 5.5 | 200 | MPC - 2 | 1/2"NPTM              | SS316                             | * | * | - | A                                                           | - |  |
| 2226                                                                                                                                                                                              | 45-SDV-5520  | SHUTDOWN VALVE                                           | 17039-EK-P-DW-0213-03                                                                                                                                      | 2"-FG-45-5508-AC01    | N/A | N/A | 12/FV | 250 | 5.5 | 200 | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2227                                                                                                                                                                                              | 45-SXV-5520  | SOLENOID VALVE                                           | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | SS316                             | * | * | - | A                                                           | - |  |
| 2228                                                                                                                                                                                              | 45-ZSL-5520  | POSITION SWITCH LOW                                      | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2229                                                                                                                                                                                              | 45-ZSH-5520  | POSITION SWITCH HIGH                                     | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2230                                                                                                                                                                                              | 45-SDV-8057  | SHUTDOWN VALVE                                           | 17039-EK-P-DW-0213-03                                                                                                                                      | 2"-FG-45-5508-AC01    | N/A | N/A | 12/FV | 250 | 6.5 | 100 | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | - | A                                                           | - |  |
| 2231                                                                                                                                                                                              | 45-SXV-8057  | SOLENOID VALVE                                           | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DO  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | SS316                             | * | * | - | A                                                           | - |  |
| 2232                                                                                                                                                                                              | 45-ZSL-8057  | POSITION SWITCH LOW                                      | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2233                                                                                                                                                                                              | 45-ZSH-8057  | POSITION SWITCH HIGH                                     | 17039-EK-P-DW-0213-03                                                                                                                                      | N/A                   | BMS | DI  | N/A   | N/A | N/A | N/A | MPC - 2 | N/A                   | N/A                               | * | * | - | A                                                           | - |  |
| 2234                                                                                                                                                                                              | 45-SDV-8058  |                                                          |                                                                                                                                                            |                       |     |     |       |     |     |     |         |                       |                                   |   |   |   |                                                             |   |  |

|                                                                                                                                                                                                                                                                                                                                                    |              |                                                       |                            |                       |     |     |        |     |     |           |         |                       |                                   |           |   |   |           |   |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------|----------------------------|-----------------------|-----|-----|--------|-----|-----|-----------|---------|-----------------------|-----------------------------------|-----------|---|---|-----------|---|--|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an enterprise of public importance</small></div></div></div> |              |                                                       | CLIENT : OIL INDIA LIMITED |                       |     |     |        |     |     |           |         |                       |                                   |           |   |   | DOC NO. : |   |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                  |              |                                                       |                            |                       |     |     |        |     |     |           |         |                       |                                   | REV NO. : |   |   |           |   |  |  |
|                                                                                                                                                                                                                                                                                                                                                    |              |                                                       |                            |                       |     |     |        |     |     |           |         |                       |                                   | DATE :    |   |   |           |   |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                   |              |                                                       |                            |                       |     |     |        |     |     |           |         |                       |                                   |           |   |   |           |   |  |  |
| 2243                                                                                                                                                                                                                                                                                                                                               | 45-PI-8017   | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0213-03      | 2"-FG-45-5508-AC01    | N/A | N/A | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1/2"NPTM              | SS316                             | *         | * | - | A         | - |  |  |
| 2244                                                                                                                                                                                                                                                                                                                                               | 64-PCV-5516  | PRESSURE CONTROL VALVE                                | 17039-EK-P-DW-0213-03      | 2"-FG-45-5508-AC01    | N/A | N/A | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | *         | * | - | A         | - |  |  |
| 2245                                                                                                                                                                                                                                                                                                                                               | 45-PI-8014   | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0213-03      | 2"-FG-45-5507-AC01    | N/A | N/A | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1/2"NPTM              | SS316                             | *         | * | - | A         | - |  |  |
| 2246                                                                                                                                                                                                                                                                                                                                               | 45-PSL-8018  | PRESSURE SWITCH LOW                                   | 17039-EK-P-DW-0213-03      | 2"-FG-45-5508-AC01    | BMS | DI  | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1/2"NPT               | SS316                             | *         | * | - | A         | - |  |  |
| 2247                                                                                                                                                                                                                                                                                                                                               | 45-PSL-8015  | PRESSURE SWITCH LOW                                   | 17039-EK-P-DW-0213-03      | 2"-FG-45-5507-AC01    | BMS | DI  | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1/2"NPT               | SS316                             | *         | * | - | A         | - |  |  |
| 2248                                                                                                                                                                                                                                                                                                                                               | 63-PSL-6428  | PRESSURE SWITCH LOW                                   | 17039-EK-P-DW-0213-03      | 2"-UA-63-6428-AG01    | BMS | DI  | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1/2"NPT               | SS316                             | *         | * | - | A         | - |  |  |
| 2249                                                                                                                                                                                                                                                                                                                                               | 45-PSH-8016  | PRESSURE SWITCH HIGH                                  | 17039-EK-P-DW-0213-03      | 2"-FG-45-5507-AC01    | BMS | DI  | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1/2"NPT               | SS316                             | *         | * | - | A         | - |  |  |
| 2250                                                                                                                                                                                                                                                                                                                                               | 45-XV-5518   | ON/OFF VALVE                                          | 17039-EK-P-DW-0213-03      | 2"-FG-45-5508-AC01    | N/A | N/A | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | *         | * | - | A         | - |  |  |
| 2251                                                                                                                                                                                                                                                                                                                                               | 45-XY-5518   | SOLENOID VALVE                                        | 17039-EK-P-DW-0213-03      | N/A                   | BMS | DO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2252                                                                                                                                                                                                                                                                                                                                               | 45-ZSL-5518  | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0213-03      | N/A                   | BMS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2253                                                                                                                                                                                                                                                                                                                                               | 45-ZSH-5518  | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0213-03      | N/A                   | BMS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2254                                                                                                                                                                                                                                                                                                                                               | 45-XV-5517   | ON/OFF VALVE                                          | 17039-EK-P-DW-0213-03      | 2"-FG-45-5507-AC01    | N/A | N/A | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | *         | * | - | A         | - |  |  |
| 2255                                                                                                                                                                                                                                                                                                                                               | 45-XY-5517   | SOLENOID VALVE                                        | 17039-EK-P-DW-0213-03      | N/A                   | BMS | DO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2256                                                                                                                                                                                                                                                                                                                                               | 45-ZSL-5517  | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0213-03      | N/A                   | BMS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2257                                                                                                                                                                                                                                                                                                                                               | 45-ZSH-5517  | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0213-03      | N/A                   | BMS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2258                                                                                                                                                                                                                                                                                                                                               | 45-BSL-5521  | BURNER SWITCH                                         | 17039-EK-P-DW-0213-03      | BURNER                | BMS | DI  | 12/FV  | 250 | 6.5 | 100       | MPC - 2 |                       | SS316                             | *         | * | - | A         | - |  |  |
| 2259                                                                                                                                                                                                                                                                                                                                               | 45-XI-5522   | BURNER ON / OFF                                       | 17039-EK-P-DW-0213-03      | BMS TO PCS            | DCS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2260                                                                                                                                                                                                                                                                                                                                               | 45-XA-5522   | BURNER FAIL                                           | 17039-EK-P-DW-0213-03      | BMS TO PCS            | DCS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2261                                                                                                                                                                                                                                                                                                                                               | 45-HS-5522   | BURNER STOP                                           | 17039-EK-P-DW-0213-03      | BMS TO PCS            | DCS | DO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2262                                                                                                                                                                                                                                                                                                                                               | 63-XC-3370B  | START / STOP                                          | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | DCS | DO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2263                                                                                                                                                                                                                                                                                                                                               | 63-XI-3370B  | RUNNING                                               | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | DCS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2264                                                                                                                                                                                                                                                                                                                                               | 63-XA-3370B  | FAULT ALARM                                           | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | DCS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2265                                                                                                                                                                                                                                                                                                                                               | 63-XE-3370B  | AVAILABLE                                             | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | DCS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2266                                                                                                                                                                                                                                                                                                                                               | 63-XB-3370B  | TRIP FEEDBACK                                         | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | DCS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2267                                                                                                                                                                                                                                                                                                                                               | 63-XS-3370B  | SHUTDOWN / TRIP                                       | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | PSD | DO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2268                                                                                                                                                                                                                                                                                                                                               | 63-XXS-3370B | SHUTDOWN / TRIP                                       | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | ESD | DO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2269                                                                                                                                                                                                                                                                                                                                               | 63-FV-6430   | FLOW CONTROL VALVE                                    | 17039-EK-P-DW-0213-03      | 2"-UA-63-6428-AG01    | N/A | N/A | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | *         | * | - | A         | - |  |  |
| 2270                                                                                                                                                                                                                                                                                                                                               | 41-SXV-6430  | SOLENOID VALVE                                        | 17039-EK-P-DW-0213-03      | N/A                   | BMS | DO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | SS316                             | *         | * | - | A         | - |  |  |
| 2271                                                                                                                                                                                                                                                                                                                                               | 63-FY-6430   | POSITIONER                                            | 17039-EK-P-DW-0213-03      | N/A                   | BMS | AO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2272                                                                                                                                                                                                                                                                                                                                               | 45-TW-5523   | THERMOWELL                                            | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | N/A | N/A | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 2"/150#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2273                                                                                                                                                                                                                                                                                                                                               | 45-TT-5523   | TEMPERATURE TRANSMITTER                               | 17039-EK-P-DW-0213-03      | EK-PM-3370B           | BMS | AI  | 12/FV  | 250 | 6.5 | 100       | MPC - 2 | 1/2"NPTM              | SS316                             | *         | * | - | A         | - |  |  |
| 2274                                                                                                                                                                                                                                                                                                                                               | 41-PSV-3765A | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0213-03      | 2"-HM-3791-BC01-3N    | N/A | N/A | 12/FV  | 250 | 5.5 | 200       | MPC - 2 | 1"/300#RF D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | *         | * | - | A         | - |  |  |
| 2275                                                                                                                                                                                                                                                                                                                                               | 41-PSV-3765B | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0213-03      | 2"-HM-3792-BC01-3N    | N/A | N/A | 12/FV  | 250 | 5.5 | 200       | MPC - 2 | 1"/300#RF D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | *         | * | - | A         | - |  |  |
| 2276                                                                                                                                                                                                                                                                                                                                               | 41-TW-3767   | THERMOWELL                                            | 17039-EK-P-DW-0213-03      | 6"-HM-41-3786-BC01-3N | N/A | N/A | 12/FV  | 250 | 5.5 | 200       | MPC - 2 | 1 1/2"/150#RF         | SS316                             | *         | * | - | A         | - |  |  |
| 2277                                                                                                                                                                                                                                                                                                                                               | 41-TI-3767   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0213-03      | 6"-HM-41-3786-BC01-3N | N/A | N/A | 12/FV  | 250 | 5.5 | 200       | MPC - 2 | 1/2"NPTM              | SS316                             | *         | * | - | A         | - |  |  |
| 2278                                                                                                                                                                                                                                                                                                                                               | 41-PDT-3770  | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0213-03      | ACROSS EK-MBK-3360B   | BMS | AI  | 12/FV  | 250 | 5.5 | 200       | MPC - 2 | 2"/150#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2279                                                                                                                                                                                                                                                                                                                                               | 41-PI-3761A  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL                | 17039-EK-P-DW-0213-04      | EK-MBD-3320           | N/A | N/A | 3.5/FV | 250 | ATM | 100- '200 | MPC - 2 | 2"/150#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2280                                                                                                                                                                                                                                                                                                                                               | 41-LIT-6203  | ULTRASONIC TYPE LEVEL TRANSMITTER                     | 17039-EK-P-DW-0213-04      | EK-MBD-3320           | PCS | AI  | 3.5/FV | 250 | ATM | 100- '200 | MPC - 2 | 2"/150#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2281                                                                                                                                                                                                                                                                                                                                               | 41-PIT-6201  | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0213-04      | EK-MBD-3320           | PSD | AI  | 3.5/FV | 250 | ATM | 100- '200 | MPC - 2 | 1/2"NPTF              | SS316                             | *         | * | - | A         | - |  |  |
| 2282                                                                                                                                                                                                                                                                                                                                               | 41-TW-3608   | THERMOWELL                                            | 17039-EK-P-DW-0213-04      | EK-MBD-3320           | N/A | N/A | 3.5/FV | 250 | ATM | 100- '200 | MPC - 2 | 2"/150#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2283                                                                                                                                                                                                                                                                                                                                               | 41-TI-3608   | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0213-04      | EK-MBD-3320           | N/A | N/A | 3.5/FV | 250 | ATM | 100- '200 | MPC - 2 | 1/2"NPTM              | SS316                             | *         | * | - | A         | - |  |  |
| 2284                                                                                                                                                                                                                                                                                                                                               | 41-PG-6202   | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0213-04      | EK-MBD-3320           | N/A | N/A | 3.5/FV | 250 | ATM | 100- '200 | MPC - 2 | 2"/300#RF             | BODY: CARBON STEEL<br>TRIM: SS316 | *         | * | - | A         | - |  |  |
| 2285                                                                                                                                                                                                                                                                                                                                               | 41-PT-3760A  | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0213-04      | 2"-HM-41-3777-BC01-3N | PSD | AI  | 12     | 250 | 5   | 100- '200 | MPC - 2 | 2"/300#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2286                                                                                                                                                                                                                                                                                                                                               | 41-PI-3759A  | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0213-04      | 2"-HM-41-3777-BC01-3N | N/A | N/A | 12     | 250 | 5   | 100- '200 | MPC - 2 | 2"/300#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2287                                                                                                                                                                                                                                                                                                                                               | 41-PT-3760B  | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0213-04      | 2"-HM-41-3778-BC01-3N | PSD | AI  | 12     | 250 | 5   | 100- '200 | MPC - 2 | 2"/300#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2288                                                                                                                                                                                                                                                                                                                                               | 41-PI-3759B  | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0213-04      | 2"-HM-41-3778-BC01-3N | N/A | N/A | 12     | 250 | 5   | 100- '200 | MPC - 2 | 2"/300#RF             | SS316                             | *         | * | - | A         | - |  |  |
| 2289                                                                                                                                                                                                                                                                                                                                               | 41-XC-3340A  | START / STOP                                          | 17039-EK-P-DW-0213-04      | EK-PM-3340A           | DCS | DO  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2290                                                                                                                                                                                                                                                                                                                                               | 41-XI-3340A  | RUNNING                                               | 17039-EK-P-DW-0213-04      | EK-PM-3340A           | DCS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2291                                                                                                                                                                                                                                                                                                                                               | 41-XA-3340A  | FAULT ALARM                                           | 17039-EK-P-DW-0213-04      | EK-PM-3340A           | DCS | DI  | N/A    | N/A | N/A | N/A       | MPC - 2 | N/A                   | N/A                               | *         | * | - | A         | - |  |  |
| 2292                                                                                                                                                                                                                                                                                                                                               | 41-XE-3340A  | AVAILABLE                                             | 17                         |                       |     |     |        |     |     |           |         |                       |                                   |           |   |   |           |   |  |  |

|                                                                                                                                                                                                                                                                                                                                                     |               |                                                       |                            |                       |     |     |       |     |         |       |                  |                |                                                |   |   |   |           |           |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------|----------------------------|-----------------------|-----|-----|-------|-----|---------|-------|------------------|----------------|------------------------------------------------|---|---|---|-----------|-----------|--|--|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an undertaking of India Corporation</small></div></div></div> |               |                                                       | CLIENT : OIL INDIA LIMITED |                       |     |     |       |     |         |       |                  |                |                                                |   |   |   | DOC NO. : |           |  |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                   |               |                                                       |                            |                       |     |     |       |     |         |       |                  |                |                                                |   |   |   |           | REV NO. : |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                     |               |                                                       |                            |                       |     |     |       |     |         |       |                  |                |                                                |   |   |   |           | DATE :    |  |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |               |                                                       |                            |                       |     |     |       |     |         |       |                  |                |                                                |   |   |   |           |           |  |  |  |
| 2304                                                                                                                                                                                                                                                                                                                                                | 41-PI-3775    | PRESSURE INDICATOR WITH DIAPHRAGM SEAL                | 17039-EK-P-DW-0213-05      | 2"-HM-41-3794-BC01-3N | N/A | N/A | 12/FV | 250 | 5       | 250   | MPC - 2          | 2"/300#RF      | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2305                                                                                                                                                                                                                                                                                                                                                | 41-PDT-3776   | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0213-05      | ACROSS EK-MAJ-3390A   | DCS | AI  | 12/FV | 250 | 5       | 250   | MPC - 2          | 2"/300#RF      | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2306                                                                                                                                                                                                                                                                                                                                                | 41-PDT-3777   | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-EK-P-DW-0213-05      | ACROSS EK-MAJ-3390B   | DCS | AI  | 12/FV | 250 | 5       | 250   | MPC - 2          | 2"/300#RF      | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2307                                                                                                                                                                                                                                                                                                                                                | 41-PSV-3778A  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0213-05      | 2"-HM-41-3801-BC01-3N | N/A | N/A | 12/FV | 250 | 5       | 250   | MPC - 2          | 2"/300#RF      | BODY: CARBON STEEL TRIM: SS316                 | * | * | - | A         | -         |  |  |  |
| 2308                                                                                                                                                                                                                                                                                                                                                | 41-PSV-3778B  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0213-05      | 2"-HM-41-3799-BC01-3N | N/A | N/A | 12/FV | 250 | 5       | 250   | MPC - 2          | 2"/300#RF      | BODY: CARBON STEEL TRIM: SS316                 | * | * | - | A         | -         |  |  |  |
| 2309                                                                                                                                                                                                                                                                                                                                                | 45-SDV-5031   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0214-01      | 2"-FG-45-5012-AC01    | N/A | N/A | 11/FV | 100 | 6       | 64-66 | CSC-4 & MPC - 10 | 2"/150#RF      | BODY: CARBON STEEL TRIM: SS316                 | * | * | - | A         | -         |  |  |  |
| 2310                                                                                                                                                                                                                                                                                                                                                | 45-SXV-5031   | SOLENOID VALVE                                        | 17039-EK-P-DW-0214-01      | N/A                   | PSD | DO  | N/A   | N/A | N/A     | N/A   | CSC-4 & MPC - 10 | N/A            | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2311                                                                                                                                                                                                                                                                                                                                                | 45-ZSL-5031   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0214-01      | N/A                   | DCS | DI  | N/A   | N/A | N/A     | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2312                                                                                                                                                                                                                                                                                                                                                | 45-ZSH-5031   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0214-01      | N/A                   | DCS | DI  | N/A   | N/A | N/A     | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2313                                                                                                                                                                                                                                                                                                                                                | 45-PCV-5024   | PRESSURE CONTROL VALVE                                | 17039-EK-P-DW-0214-01      | 2"-FG-45-5012-AC01    | N/A | N/A | 11/FV | 100 | 6       | 64-66 | CSC-4 & MPC - 10 | 1"/150#RF      | BODY: CARBON STEEL TRIM: SS316                 | * | * | - | A         | -         |  |  |  |
| 2314                                                                                                                                                                                                                                                                                                                                                | 45-FIT-5007   | DP TYPE FLOW TRANSMITTER                              | 17039-EK-P-DW-0214-01      | 2"-FG-45-5012-AC01    | DCS | AI  | 11/FV | 100 | 6       | 64-66 | CSC-4 & MPC - 10 | 1/2"NPTF       | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2315                                                                                                                                                                                                                                                                                                                                                | 45-FE-5007    | FLOW ELEMENT (ORIFICE)                                | 17039-EK-P-DW-0214-01      | 2"-FG-45-5012-AC01    | N/A | N/A | 11/FV | 100 | 6       | 64-66 | CSC-4 & MPC - 10 | 2"/150#RF      | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2316                                                                                                                                                                                                                                                                                                                                                | 64-SDV-6652   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0214-01      | 2"-GN-64-6652-AG01    | N/A | N/A | 13.5  | 85  | 5.5-8.5 | 51    | CSC-4 & MPC - 10 | 2"/150#RF      | BODY : CARBONSTEEL (GALVANIZED) / TRIM : SS316 | * | * | - | A         | -         |  |  |  |
| 2317                                                                                                                                                                                                                                                                                                                                                | 64-SXV-6652   | SOLENOID VALVE                                        | 17039-EK-P-DW-0214-01      | N/A                   | PSD | DO  | N/A   | N/A | N/A     | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2318                                                                                                                                                                                                                                                                                                                                                | 64-ZSL-6652   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0214-01      | N/A                   | DCS | DI  | N/A   | N/A | N/A     | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2319                                                                                                                                                                                                                                                                                                                                                | 64-ZSH-6652   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0214-01      | N/A                   | DCS | DI  | N/A   | N/A | N/A     | N/A   | CSC-4 & MPC - 10 | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2320                                                                                                                                                                                                                                                                                                                                                | 64-PCV-6641   | PRESSURE CONTROL VALVE                                | 17039-EK-P-DW-0214-01      | 2"-GN-64-6653-AG01    | N/A | N/A | 13.5  | 85  | 5.5-8.5 | 51    | CSC-4 & MPC - 10 | 1"/150#RF      | BODY : CARBONSTEEL (GALVANIZED) / TRIM : SS316 | * | * | - | A         | -         |  |  |  |
| 2321                                                                                                                                                                                                                                                                                                                                                | 43-LT-4165    | DP TYPE LEVEL TRANSMITTER                             | 17039-EK-P-DW-0214-02      | EK-MBD-2140           | ESD | AI  | 10/FV | 200 | 3.5     | AMB   | MPC - 2          | 1/2"NPT        | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2322                                                                                                                                                                                                                                                                                                                                                | 43-TW-4166    | THERMOWELL                                            | 17039-EK-P-DW-0214-02      | EK-MBD-2140           | N/A | N/A | 10/FV | 200 | 3.5     | AMB   | MPC - 2          | 2"/150#RF      | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2323                                                                                                                                                                                                                                                                                                                                                | 43-TI-4166    | TEMPERATURE INDICATOR                                 | 17039-EK-P-DW-0214-02      | EK-MBD-2140           | N/A | N/A | 10/FV | 200 | 3.5     | AMB   | MPC - 2          | 1/2"NPTM       | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2324                                                                                                                                                                                                                                                                                                                                                | 43-LG/LT-4167 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER   | 17039-EK-P-DW-0214-02      | EK-MBD-2140           | ESD | AI  | 10/FV | 200 | 3.5     | AMB   | MPC - 2          | 2"/150#RF      | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2325                                                                                                                                                                                                                                                                                                                                                | 43-LT-4168    | DP TYPE LEVEL TRANSMITTER                             | 17039-EK-P-DW-0214-02      | EK-MBD-2140           | ESD | AI  | 10/FV | 200 | 3.5     | AMB   | MPC - 2          | 1/2"NPT        | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2326                                                                                                                                                                                                                                                                                                                                                | 43-PI-4169    | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0214-02      | EK-MBD-2140           | N/A | N/A | 10/FV | 200 | 3.5     | AMB   | MPC - 2          | 1/2"NPTM       | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2327                                                                                                                                                                                                                                                                                                                                                | 43-SDV-4218   | SHUTDOWN VALVE                                        | 17039-EK-P-DW-0214-02      | 2"-PL-43-4185-AC01    | N/A | N/A | 10/FV | 200 | 3.5     | AMB   | MPC - 2          | 2"/150#RF      | BODY: CARBON STEEL TRIM: SS316                 | * | * | - | A         | -         |  |  |  |
| 2328                                                                                                                                                                                                                                                                                                                                                | 43-SXV-4218   | SOLENOID VALVE                                        | 17039-EK-P-DW-0214-02      | N/A                   | PSD | DO  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2329                                                                                                                                                                                                                                                                                                                                                | 43-ZSL-4218   | POSITION SWITCH LOW                                   | 17039-EK-P-DW-0214-02      | N/A                   | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2330                                                                                                                                                                                                                                                                                                                                                | 43-ZSH-4218   | POSITION SWITCH HIGH                                  | 17039-EK-P-DW-0214-02      | N/A                   | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2331                                                                                                                                                                                                                                                                                                                                                | 43-LG/LT-4170 | MAGETIC TYPE LEVEL INDICATOR WITH LEVEL TRANSMITTER   | 17039-EK-P-DW-0214-02      | EK-MBD-2140           | DCS | AI  | 10/FV | 200 | 3.5     | AMB   | MPC - 2          | 2"/150#RF      | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2332                                                                                                                                                                                                                                                                                                                                                | 43-PI-4171A   | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0214-02      | 2"-PL-43-4188-AC01    | N/A | N/A | 10/FV | 100 | 5.0     | AMB   | MPC - 2          | 1/2"NPTM       | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2333                                                                                                                                                                                                                                                                                                                                                | 43-PI-4171B   | PRESSURE INDICATOR                                    | 17039-EK-P-DW-0214-02      | 2"-PL-43-4189-AC01    | N/A | N/A | 10/FV | 100 | 5.0     | AMB   | MPC - 2          | 1/2"NPTM       | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2334                                                                                                                                                                                                                                                                                                                                                | 43-PT-4172A   | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0214-02      | 6"-PL-43-4188-AC01    | PSD | AI  | 10/FV | 100 | 5.0     | AMB   | MPC - 2          | 1/2"NPTF       | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2335                                                                                                                                                                                                                                                                                                                                                | 43-PT-4172B   | PRESSURE TRANSMITTER                                  | 17039-EK-P-DW-0214-02      | 6"-PL-43-4189-AC01    | PSD | AI  | 10/FV | 100 | 5.0     | AMB   | MPC - 2          | 1/2"NPTF       | SS316                                          | * | * | - | A         | -         |  |  |  |
| 2336                                                                                                                                                                                                                                                                                                                                                | 43-PSV-4175A  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0214-02      | 2"-PL-43-4192-AC01    | N/A | N/A | 10/FV | 100 | 5.0     | AMB   | MPC - 2          | 1" D 2"/150#RF | BODY: CARBON STEEL TRIM: SS316                 | * | * | - | A         | -         |  |  |  |
| 2337                                                                                                                                                                                                                                                                                                                                                | 43-PSV-4175B  | PRESSURE SAFETY VALVE                                 | 17039-EK-P-DW-0214-02      | 2"-PL-43-4191-AC01    | N/A | N/A | 10/FV | 100 | 5.0     | AMB   | MPC - 2          | 1" D 2"/150#RF | BODY: CARBON STEEL TRIM: SS316                 | * | * | - | A         | -         |  |  |  |
| 2338                                                                                                                                                                                                                                                                                                                                                | 43-XC-2180A   | START / STOP                                          | 17039-EK-P-DW-0214-02      | EK-PBA-2150A          | DCS | DO  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2339                                                                                                                                                                                                                                                                                                                                                | 43-XI-2180A   | RUNNING                                               | 17039-EK-P-DW-0214-02      | EK-PBA-2150A          | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2340                                                                                                                                                                                                                                                                                                                                                | 43-XA-2180A   | FAULT ALARM                                           | 17039-EK-P-DW-0214-02      | EK-PBA-2150A          | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2341                                                                                                                                                                                                                                                                                                                                                | 43-XE-2180A   | AVAILABLE                                             | 17039-EK-P-DW-0214-02      | EK-PBA-2150A          | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2342                                                                                                                                                                                                                                                                                                                                                | 43-XB-2180A   | TRIP FEEDBACK                                         | 17039-EK-P-DW-0214-02      | EK-PBA-2150A          | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2343                                                                                                                                                                                                                                                                                                                                                | 43-XS-2180A   | SHUTDOWN / TRIP                                       | 17039-EK-P-DW-0214-02      | EK-PBA-2150A          | PSD | DO  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2344                                                                                                                                                                                                                                                                                                                                                | 43-XXS-2180A  | SHUTDOWN / TRIP                                       | 17039-EK-P-DW-0214-02      | EK-PBA-2150A          | ESD | DO  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2345                                                                                                                                                                                                                                                                                                                                                | 43-XC-2180B   | START / STOP                                          | 17039-EK-P-DW-0214-02      | EK-PBA-2150B          | DCS | DO  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2346                                                                                                                                                                                                                                                                                                                                                | 43-XI-2180B   | RUNNING                                               | 17039-EK-P-DW-0214-02      | EK-PBA-2150B          | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2347                                                                                                                                                                                                                                                                                                                                                | 43-XA-2180B   | FAULT ALARM                                           | 17039-EK-P-DW-0214-02      | EK-PBA-2150B          | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2348                                                                                                                                                                                                                                                                                                                                                | 43-XE-2180B   | AVAILABLE                                             | 17039-EK-P-DW-0214-02      | EK-PBA-2150B          | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2349                                                                                                                                                                                                                                                                                                                                                | 43-XB-2180B   | TRIP FEEDBACK                                         | 17039-EK-P-DW-0214-02      | EK-PBA-2150B          | DCS | DI  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2350                                                                                                                                                                                                                                                                                                                                                | 43-XS-2180B   | SHUTDOWN / TRIP                                       | 17039-EK-P-DW-0214-02      | EK-PBA-2150B          | PSD | DO  | N/A   | N/A | N/A     | N/A   | MPC - 2          | N/A            | N/A                                            | * | * | - | A         | -         |  |  |  |
| 2351                                                                                                                                                                                                                                                                                                                                                | 43-XXS-2180B  | SHUTDOWN / TRIP                                       | 17039-EK-P-DW-0214-02      | EK-PBA-2150B          | ESD | DO  | N/A</ |     |         |       |                  |                |                                                |   |   |   |           |           |  |  |  |

|                                                                                                                                                                                                   |               |                                   |                       |                                                                                                   |                            |     |         |     |         |       |         |                       |                                                   |   |   |           |   |                |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|----------------------------|-----|---------|-----|---------|-------|---------|-----------------------|---------------------------------------------------|---|---|-----------|---|----------------|--|
| <div><div></div><div></div></div> |               |                                   |                       | CLIENT : OIL INDIA LIMITED                                                                        |                            |     |         |     |         |       |         |                       |                                                   |   |   | DOC NO. : |   |                |  |
|                                                                                                                                                                                                   |               |                                   |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |                            |     |         |     |         |       |         |                       |                                                   |   |   | REV NO. : |   |                |  |
|                                                                                                                                                                                                   |               |                                   |                       | INSTRUMENT INDEX                                                                                  |                            |     |         |     |         |       |         |                       |                                                   |   |   | DATE :    |   |                |  |
| 2365                                                                                                                                                                                              | 63-ZSH-6433   | POSITION SWITCH HIGH              | 17039-EK-P-DW-0214-04 | N/A                                                                                               | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC - 2 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2366                                                                                                                                                                                              | 45-SDV-5529   | SHUTDOWN VALVE                    | 17039-EK-P-DW-0214-04 | 2"-FG-45-5632-AC01                                                                                | N/A                        | N/A | 10      | 200 | 3.5     | AMB   | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | -         | A | -              |  |
| 2367                                                                                                                                                                                              | 45-SXV-5529   | SOLENOID VALVE                    | 17039-EK-P-DW-0214-04 | N/A                                                                                               | PSD                        | DO  | N/A     | N/A | N/A     | N/A   | MPC - 2 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2368                                                                                                                                                                                              | 45-ZSL-5529   | POSITION SWITCH LOW               | 17039-EK-P-DW-0214-04 | N/A                                                                                               | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC - 2 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2369                                                                                                                                                                                              | 45-ZSH-5529   | POSITION SWITCH HIGH              | 17039-EK-P-DW-0214-04 | N/A                                                                                               | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC - 2 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2370                                                                                                                                                                                              | 45-SDV-4289   | SHUTDOWN VALVE                    | 17039-EK-P-DW-0214-04 | 2"-FG-45-5679-AC01                                                                                | N/A                        | N/A | 10      | 200 | 3.5     | AMB   | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | -         | A | -              |  |
| 2371                                                                                                                                                                                              | 45-SXV-4289   | SOLENOID VALVE                    | 17039-EK-P-DW-0214-04 | N/A                                                                                               | PSD                        | DO  | N/A     | N/A | N/A     | N/A   | MPC - 2 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2372                                                                                                                                                                                              | 45-ZSL-4289   | POSITION SWITCH LOW               | 17039-EK-P-DW-0214-04 | N/A                                                                                               | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC - 2 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2373                                                                                                                                                                                              | 45-ZSH-4289   | POSITION SWITCH HIGH              | 17039-EK-P-DW-0214-04 | N/A                                                                                               | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC - 2 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2374                                                                                                                                                                                              | 63-PCV-6431   | PRESSURE CONTROL VALVE            | 17039-EK-P-DW-0214-04 | 2"-IA-63-6429-AG01                                                                                | N/A                        | N/A | 10      | 200 | 3.5     | AMB   | MPC - 2 | 2"/150#RF             | BODY : CARBONSTEEL<br>(GALVANIZED) / TRIM : SS316 | * | * | -         | A | -              |  |
| 2375                                                                                                                                                                                              | 45-PCV-5526   | PRESSURE CONTROL VALVE            | 17039-EK-P-DW-0214-04 | 2"-FG-45-5020-AC01                                                                                | N/A                        | N/A | 10      | 200 | 3.5     | AMB   | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | -         | A | -              |  |
| 2376                                                                                                                                                                                              | 45-PCV-5527   | PRESSURE CONTROL VALVE            | 17039-EK-P-DW-0214-04 | 2"-FG-45-5679-AC01                                                                                | N/A                        | N/A | 10      | 200 | 3.5     | AMB   | MPC - 2 | 2"/150#RF             | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | -         | A | -              |  |
| 2377                                                                                                                                                                                              | 63-PI-6432    | PRESSURE INDICATOR                | 17039-EK-P-DW-0214-04 | 1"-IA-63-6430-AG01                                                                                | N/A                        | N/A | 10      | 200 | 3.5     | AMB   | MPC - 2 | 1/2"NPTM              | SS316                                             | * | * | -         | A | -              |  |
| 2378                                                                                                                                                                                              | 45-PI-5528    | PRESSURE INDICATOR                | 17039-EK-P-DW-0214-04 | 1"-FG-45-5507-AC01                                                                                | N/A                        | N/A | 10      | 200 | 3.5     | AMB   | MPC - 2 | 1/2"NPTM              | SS316                                             | * | * | -         | A | -              |  |
| 2379                                                                                                                                                                                              | 45-PI-5530    | PRESSURE INDICATOR                | 17039-EK-P-DW-0214-04 | 1"-FG-45-5507-AC01                                                                                | N/A                        | N/A | 10      | 200 | 3.5     | AMB   | MPC - 2 | 1/2"NPTM              | SS316                                             | * | * | -         | A | -              |  |
| 2380                                                                                                                                                                                              | 43-TT-4137    | TEMPERATURE TRANSMITTER           | 17039-EK-P-DW-0214-04 | 1"-FG-45-5510-AC01                                                                                | IGNITION CONTROL<br>SYSTEM | AI  | 11/FV   | 100 | 6       | 64-66 | MPC-2   | 2" 900#               | SS316                                             | * | * | -         | A | PACKAGE VENDOR |  |
| 2381                                                                                                                                                                                              | 43-TT-4138    | TEMPERATURE TRANSMITTER           | 17039-EK-P-DW-0214-04 | 1"-FG-45-5511-AC01                                                                                |                            | AI  | 11/FV   | 100 | 6       | 64-66 | MPC-2   | 2" 900#               | SS316                                             | * | * | -         | A | PACKAGE VENDOR |  |
| 2382                                                                                                                                                                                              | 43-XAL-4276   | IGNITION FAILURE                  | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2383                                                                                                                                                                                              | 43-XAL-4279   | FUEL GAS PRESSURE LOW             | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2384                                                                                                                                                                                              | 43-XAL-4280   | COMMON ALARM FAILURE              | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2385                                                                                                                                                                                              | 43-XAL-4281   | BACK-UP FUEL GAS LOW              | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2386                                                                                                                                                                                              | 43-HS-4269    | POWER ON/OFF SWITCH               | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2387                                                                                                                                                                                              | 43-PB-4270    | IGNITION PUSH BUTTON              | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    |                            | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2388                                                                                                                                                                                              | 43-PB-4271    | AUTO/OFF/MAN SELECTOR             | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2389                                                                                                                                                                                              | 43-HS-4272    | PILOT SELECTOR                    | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2390                                                                                                                                                                                              | 43-PB-4273    | LAMP TEST PUSH BUTTON             | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2391                                                                                                                                                                                              | 43-PB-4274    | RESET PUSH BUTTON                 | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2392                                                                                                                                                                                              | 43-XL-4275    | POWER ON WHITE LAMP               | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2393                                                                                                                                                                                              | 43-XL-4276    | IGNITION FAILURE                  | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DO  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2394                                                                                                                                                                                              | 43-TAH-4277   | TEMPERATURE SWITCH HIGH           | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2395                                                                                                                                                                                              | 43-TAH-4278   | TEMPERATURE SWITCH LOW            | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2396                                                                                                                                                                                              | 43-XAL-4279   | FUEL GAS PRESSURE LOW             | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DO  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2397                                                                                                                                                                                              | 43-XAL-4280   | COMMON ALARM FAILURE              | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DO  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2398                                                                                                                                                                                              | 43-XAL-4281   | BACK-UP FUEL GAS LOW              | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | IGNITION CONTROL SYSTEM    | DO  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2399                                                                                                                                                                                              | 43-XAL-4277   | PILOT "1" FAILURE                 | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2400                                                                                                                                                                                              | 43-XAL-4278   | PILOT "2" FAILURE                 | 17039-EK-P-DW-0214-04 | LOCAL ELECTRICAL PANEL<br>FOR IGNITION CONTROL                                                    | DCS                        | DI  | N/A     | N/A | N/A     | N/A   | MPC-2   | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2401                                                                                                                                                                                              | 63-PI-6501A   | PRESSURE INDICATOR                | 17039-EK-P-DW-0215-01 | 2"-UA-63-7700-AG01                                                                                | N/A                        | N/A | 13.5/FV | 85  | 5.5-8.8 | 51    | MPC - 4 | 1/2"NPTM              | SS316                                             | * | * | -         | A | -              |  |
| 2402                                                                                                                                                                                              | 63-PDIT-6502A | DIFFERENTIAL PRESSURE TRANSMITTER | 17039-EK-P-DW-0215-01 | ACROSS - EK-MAJ-2240A                                                                             | DCS                        | AI  | 13.5    | 85  | 6-9     | 51    | MPC - 4 | 1/2"NPT               | SS316                                             | * | * | -         | A | -              |  |
| 2403                                                                                                                                                                                              | 63-PSV-8102A  | PRESSURE SAFETY VALVE             | 17039-EK-P-DW-0215-01 | 2"-UA-63-7707-AC01                                                                                | N/A                        | N/A | 13.5    | 85  | 6-9     | 51    | MPC - 4 | 1"/300#RF E 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | -         | A | -              |  |
| 2404                                                                                                                                                                                              | 63-PI-6501B   | PRESSURE INDICATOR                | 17039-EK-P-DW-0215-01 | 2"-UA-63-7701-AG01                                                                                | N/A                        | N/A | 13.5    | 85  | 6-9     | 51    | MPC - 4 | 1/2"NPTM              | SS316                                             | * | * | -         | A | -              |  |
| 2405                                                                                                                                                                                              | 63-PDIT-6502B | DIFFERENTIAL PRESSURE TRANSMITTER | 17039-EK-P-DW-0215-01 | ACROSS - EK-MAJ-2240B                                                                             | DCS                        | AI  | 13.5    | 85  | 6-9     | 51    | MPC - 4 | 1/2"NPT               | SS316                                             | * | * | -         | A | -              |  |
| 2406                                                                                                                                                                                              | 63-PSV-8102B  | PRESSURE SAFETY VALVE             | 17039-EK-P-DW-0215-01 | 2"-UA-63-7704-AC01                                                                                | N/A                        | N/A | 13.5    | 85  | 6-9     | 51    | MPC - 4 | 1"/300#RF E 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                 | * | * | -         | A | -              |  |
| 2407                                                                                                                                                                                              | 63-PI-6511    | PRESSURE INDICATOR                | 17039-EK-P-DW-0215-02 | 2"-UA-63-7703-AG01                                                                                | N/A                        | N/A | 13.5    | 85  | 6-9     | 51    | MPC - 4 | 1/2"NPTM              | SS316                                             | * | * | -         | A | -              |  |
| 2408                                                                                                                                                                                              | 64-FI-6505    | FLOW INDICATOR                    | 17039-EK-P-DW-0215-02 | 2"-GN-64-7717-AG01                                                                                | N/A                        | N/A | 13.5    | 85  | 5.5-8.5 | 51    | MPC - 4 | 1/2"NPT               | SS316                                             | * | * | -         | A | -              |  |
| 2409                                                                                                                                                                                              | 64-XV-8076    | ON/OFF VALVE                      | 17039-EK-P-DW-0215-02 | 2"-GN-64-7717-AG01                                                                                | N/A                        | N/A | 13.5    | 85  | 5.5-8.5 | 51    | MPC - 4 | 2"/150#RF             | BODY : CARBONSTEEL<br>(GALVANIZED) / TRIM : SS316 | * | * | -         | A | -              |  |
| 2410                                                                                                                                                                                              | 64-SXV-8076   | SOLENOID VALVE                    | 17039-EK-P-DW-0215-02 | N/A                                                                                               | EK-LCP-2250                | DO  | N/A     | N/A | N/A     | N/A   | MPC - 4 | N/A                   | SS316                                             | * | * | -         | A | -              |  |
| 2411                                                                                                                                                                                              | 64-ZSL-8076   | POSITION SWITCH LOW               | 17039-EK-P-DW-0215-02 | N/A                                                                                               | PSD                        | DI  | N/A     | N/A | N/A     | N/A   | MPC - 4 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2412                                                                                                                                                                                              | 64-ZSH-8076   | POSITION SWITCH HIGH              | 17039-EK-P-DW-0215-02 | N/A                                                                                               | PSD                        | DI  | N/A     | N/A | N/A     | N/A   | MPC - 4 | N/A                   | N/A                                               | * | * | -         | A | -              |  |
| 2413                                                                                                                                                                                              | 64-AIT-6507   | ANALYZER TRANSMITTER              | 17039-EK-P-DW-0215-02 | 2"-GN-64-7717-AG01                                                                                | EK-LCP-2250                | AI  | 13.5    | 85  | 5.5-8.5 | 51    | MPC - 4 | 1/2"NPTF              | SS316                                             | * | * | -         | A | -              |  |
| 2414                                                                                                                                                                                              | 64-AI-2250    | ANALYSER INDICATION               | 17039-EK-P-DW-0215-02 | N/A                                                                                               | EK-LCP-2250                | AO  | N/A     | N/A | N/A     | N/A   | MPC-4   | N/A                   | N/A                                               | * | * | -         | A | PACKAGE VENDOR |  |
| 2415                                                                                                                                                                                              | 64-SXY-2250   | SHUTDOWN                          | 17039-EK-P-DW-0215-02 | EK-LCP-2250</                                                                                     |                            |     |         |     |         |       |         |                       |                                                   |   |   |           |   |                |  |

|                                                                                                                                                                                                   |              |                                      |                            |                     |     |     |       |     |                   |     |          |                           |                                   |   |   |           |   |           |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------|----------------------------|---------------------|-----|-----|-------|-----|-------------------|-----|----------|---------------------------|-----------------------------------|---|---|-----------|---|-----------|--|--|
| <div><div></div><div></div></div> |              |                                      | CLIENT : OIL INDIA LIMITED |                     |     |     |       |     |                   |     |          |                           |                                   |   |   | DOC NO. : |   |           |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                 |              |                                      |                            |                     |     |     |       |     |                   |     |          |                           |                                   |   |   |           |   | REV NO. : |  |  |
|                                                                                                                                                                                                   |              |                                      |                            |                     |     |     |       |     |                   |     |          |                           |                                   |   |   |           |   | DATE :    |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                  |              |                                      |                            |                     |     |     |       |     |                   |     |          |                           |                                   |   |   |           |   |           |  |  |
| 2426                                                                                                                                                                                              | 64-PSV-8122A | PRESSURE SAFETY VALVE                | 17039-EK-P-DW-0215-03      | 2"-GN-64-7723-AC01  | N/A | N/A | 13.5  | 85  | 5.5-8.5           | 51  | MPC - 4  | 1 1/2"/300#RF F 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |  |
| 2427                                                                                                                                                                                              | 64-PSV-8122B | PRESSURE SAFETY VALVE                | 17039-EK-P-DW-0215-03      | 2"-GN-64-7724-AC01  | N/A | N/A | 13.5  | 85  | 5.5-8.5           | 51  | MPC - 4  | 1 1/2"/300#RF F 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |  |
| 2428                                                                                                                                                                                              | 57-PIT-6201  | PRESSURE TRANSMITTER                 | 17039-EK-P-DW-0216-02      | EK-MBD-3500         | PSD | AI  | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 1/2"NPTF                  | SS316                             | * | * | -         | A | -         |  |  |
| 2429                                                                                                                                                                                              | 57-PG-6202   | PRESSURE INDICATOR                   | 17039-EK-P-DW-0216-02      | EK-MBD-3500         | N/A | N/A | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 1/2"NPTM                  | SS316                             | * | * | -         | A | -         |  |  |
| 2430                                                                                                                                                                                              | 57-PSV-6201A | PRESSURE SAFETY VALVE                | 17039-EK-P-DW-0216-02      | 2"-57-DC-6212A-AC01 | N/A | N/A | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 1" D 2"/150#RF            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |  |
| 2431                                                                                                                                                                                              | 57-PSV-6201B | PRESSURE SAFETY VALVE                | 17039-EK-P-DW-0216-02      | 2"-57-DC-6212B-AC01 | N/A | N/A | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 1" D 2"/150#RF            | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |  |
| 2432                                                                                                                                                                                              | 57-LIT-6203  | RADAR TYPE LEVEL TRANSMITTER         | 17039-EK-P-DW-0216-02      | EK-MBD-3500         | PSD | AI  | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 3"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2433                                                                                                                                                                                              | 57-LIT-6204  | RADAR TYPE LEVEL TRANSMITTER         | 17039-EK-P-DW-0216-02      | EK-MBD-3500         | PSD | AI  | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 3"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2434                                                                                                                                                                                              | 57-PG-6026A  | PRESSURE INDICATOR                   | 17039-EK-P-DW-0216-02      | 2"-DC-57-6210-AC01  | N/A | N/A | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 1/2"NPTM                  | SS316                             | * | * | -         | A | -         |  |  |
| 2435                                                                                                                                                                                              | 57-PIT-6027A | PRESSURE TRANSMITTER                 | 17039-EK-P-DW-0216-02      | 2"-DC-57-6210-AC01  | PSD | AI  | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 1/2"NPTF                  | SS316                             | * | * | -         | A | -         |  |  |
| 2436                                                                                                                                                                                              | 57-PG-6026B  | PRESSURE INDICATOR                   | 17039-EK-P-DW-0216-02      | 2"-DC-57-6208-AC01  | N/A | N/A | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 1/2"NPTM                  | SS316                             | * | * | -         | A | -         |  |  |
| 2437                                                                                                                                                                                              | 57-PIT-6027B | PRESSURE TRANSMITTER                 | 17039-EK-P-DW-0216-02      | 2"-DC-57-6208-AC01  | PSD | AI  | 10/FV | 120 | 0.7               | AMB | MPC - 15 | 1/2"NPTF                  | SS316                             | * | * | -         | A | -         |  |  |
| 2438                                                                                                                                                                                              | 57-XC-3150A  | START / STOP                         | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DO  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2439                                                                                                                                                                                              | 57-XI-3150A  | RUNNING                              | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2440                                                                                                                                                                                              | 57-XA-3150A  | FAULT ALARM                          | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2441                                                                                                                                                                                              | 57-XE-3150A  | AVAILABLE                            | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2442                                                                                                                                                                                              | 57-XB-3150A  | TRIP FEEDBACK                        | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2443                                                                                                                                                                                              | 57-XS-3150A  | SHUTDOWN / TRIP                      | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | PSD | DO  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2444                                                                                                                                                                                              | 57-XXS-3150A | SHUTDOWN / TRIP                      | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | ESD | DO  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2445                                                                                                                                                                                              | 57-XC-3150B  | START / STOP                         | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DO  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2446                                                                                                                                                                                              | 57-XI-3150B  | RUNNING                              | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2447                                                                                                                                                                                              | 57-XA-3150B  | FAULT ALARM                          | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2448                                                                                                                                                                                              | 57-XE-3150B  | AVAILABLE                            | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2449                                                                                                                                                                                              | 57-XB-3150B  | TRIP FEEDBACK                        | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2450                                                                                                                                                                                              | 57-XS-3150B  | SHUTDOWN / TRIP                      | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | PSD | DO  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2451                                                                                                                                                                                              | 57-XXS-3150B | SHUTDOWN / TRIP                      | 17039-EK-P-DW-0216-02      | EK-PBA-3510A        | ESD | DO  | N/A   | N/A | N/A               | N/A | MPC - 15 | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2452                                                                                                                                                                                              | 71-SDV-7101  | SHUTDOWN VALVE                       | 17039-EK-P-DW-0217-01      | 4"-WP-71-7101-AC01  | N/A | N/A | FOW   | 80  | ATM + LIQUID HEAD | 41  | MPC - 5  | 4"/150#RF                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |  |
| 2453                                                                                                                                                                                              | 71-SXV-7101  | SOLENOID VALVE                       | 17039-EK-P-DW-0217-01      | N/A                 | PSD | DO  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | SS316                             | * | * | -         | A | -         |  |  |
| 2454                                                                                                                                                                                              | 71-ZSL-7101  | POSITION SWITCH LOW                  | 17039-EK-P-DW-0217-01      | N/A                 | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2455                                                                                                                                                                                              | 71-ZSH-7101  | POSITION SWITCH HIGH                 | 17039-EK-P-DW-0217-01      | N/A                 | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2456                                                                                                                                                                                              | 71-LI-8005   | FLOAT AND BOARD TYPE LEVEL INDICATOR | 17039-EK-P-DW-0217-01      | EK-ABJ-3110A        | N/A | N/A | FOW   | 80  | ATM + LIQUID HEAD | 41  | MPC - 5  | 4"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2457                                                                                                                                                                                              | 71-LIT-8006  | RADAR TYPE LEVEL TRANSMITTER         | 17039-EK-P-DW-0217-01      | EK-ABJ-3110A        | PSD | AI  | FOW   | 80  | ATM + LIQUID HEAD | 41  | MPC - 5  | 2"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2458                                                                                                                                                                                              | 71-LI-8004   | FLOAT AND BOARD TYPE LEVEL INDICATOR | 17039-EK-P-DW-0217-01      | EK-ABJ-3110B        | N/A | N/A | FOW   | 80  | ATM + LIQUID HEAD | 41  | MPC - 5  | 4"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2459                                                                                                                                                                                              | 71-LIT-8007  | RADAR TYPE LEVEL TRANSMITTER         | 17039-EK-P-DW-0217-01      | EK-ABJ-3110B        | PSD | AI  | FOW   | 80  | ATM + LIQUID HEAD | 41  | MPC - 5  | 2"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2460                                                                                                                                                                                              | 71-SDV-8008  | SHUTDOWN VALVE                       | 17039-EK-P-DW-0217-01      | 2"-WP-53-4639A-AC01 | N/A | N/A | FOW   | 80  | ATM + LIQUID HEAD | 41  | MPC - 5  | 2"/150#RF                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |  |
| 2461                                                                                                                                                                                              | 71-SXV-8008  | SOLENOID VALVE                       | 17039-EK-P-DW-0217-01      | N/A                 | PSD | DO  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | SS316                             | * | * | -         | A | -         |  |  |
| 2462                                                                                                                                                                                              | 71-ZSL-8008  | POSITION SWITCH LOW                  | 17039-EK-P-DW-0217-01      | N/A                 | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2463                                                                                                                                                                                              | 71-ZSH-8008  | POSITION SWITCH HIGH                 | 17039-EK-P-DW-0217-01      | N/A                 | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2464                                                                                                                                                                                              | 71-SDV-8009  | SHUTDOWN VALVE                       | 17039-EK-P-DW-0217-01      | 2"-WP-53-4639B-AC01 | N/A | N/A | FOW   | 80  | ATM + LIQUID HEAD | 41  | MPC - 5  | 2"/150#RF                 | BODY: CARBON STEEL<br>TRIM: SS316 | * | * | -         | A | -         |  |  |
| 2465                                                                                                                                                                                              | 71-SXV-8009  | SOLENOID VALVE                       | 17039-EK-P-DW-0217-01      | N/A                 | PSD | DO  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | SS316                             | * | * | -         | A | -         |  |  |
| 2466                                                                                                                                                                                              | 71-ZSL-8009  | POSITION SWITCH LOW                  | 17039-EK-P-DW-0217-01      | N/A                 | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2467                                                                                                                                                                                              | 71-ZSH-8009  | POSITION SWITCH HIGH                 | 17039-EK-P-DW-0217-01      | N/A                 | DCS | DI  | N/A   | N/A | N/A               | N/A | MPC - 5  | N/A                       | N/A                               | * | * | -         | A | -         |  |  |
| 2468                                                                                                                                                                                              | 71-FI-7265   | FLOW INDICATOR                       | 17039-EK-P-DW-0217-01      | 6"-WF-71-7108-AG01  | N/A | N/A | FOW   | 80  | ATM               | 41  | MPC-5    | 6"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2469                                                                                                                                                                                              | 71-FE-7265   | FLOW ELEMENT (ORIFICE)               | 17039-EK-P-DW-0217-01      | 6"-WF-71-7108-AG01  | N/A | N/A | FOW   | 80  | ATM               | 41  | MPC-5    | 6"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2470                                                                                                                                                                                              | 71-PI-7266   | PRESSURE INDICATOR                   | 17039-EK-P-DW-0217-01      | 6"-WF-71-7108-AG01  | N/A | N/A | FOW   | 80  | ATM               | 41  | MPC-5    | 1/2"NPTM                  | SS316                             | * | * | -         | A | -         |  |  |
| 2471                                                                                                                                                                                              | 71-TSV-7140A | TEMERATURE SAFETY VALVE              | 17039-EK-P-DW-0217-02      | 8"-WF-71-7121-AG01  | N/A | N/A | 15    | 80  | 10                | 41  | MPC - 5  | 2"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2472                                                                                                                                                                                              | 71-TSV-7140A | TEMERATURE SAFETY VALVE              | 17039-EK-P-DW-0217-02      | 8"-WF-71-7121-AG01  | N/A | N/A | 15    | 80  | 10                | 41  | MPC - 5  | 2"/150#RF                 | SS316                             | * | * | -         | A | -         |  |  |
| 2473                                                                                                                                                                                              | 71-PT-7103A  | PRESSURE TRANSMITTER                 | 17039-EK-P-DW-0217-02      | 8"-WF-71-7122-AG01  | PSD | AI  | 15    | 80  | 10                | 41  | MPC - 5  | 1/2"NPTF                  | SS316                             | * | * | -         | A | -         |  |  |
| 2474                                                                                                                                                                                              | 71-PT-7104A  | PRESSURE TRANSMITTER                 | 17039-EK-P-DW-0217-02      | 8"-WF-71-7122-AG01  | DCS | AI  | 15    | 80  | 10                | 41  | MPC - 5  | 1/2"NPTF                  | SS316                             | * | * | -         | A | -         |  |  |
| 2475                                                                                                                                                                                              |              |                                      |                            |                     |     |     |       |     |                   |     |          |                           |                                   |   |   |           |   |           |  |  |

|                                                                                                                                                                                                                                                                                                                                                     |              |                                    |                            |                    |                  |     |     |     |      |     |         |             |                                                   |   |   |           |   |   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------|----------------------------|--------------------|------------------|-----|-----|-----|------|-----|---------|-------------|---------------------------------------------------|---|---|-----------|---|---|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an enterprise of Public Enterprises</small></div></div></div> |              |                                    | CLIENT : OIL INDIA LIMITED |                    |                  |     |     |     |      |     |         |             |                                                   |   |   | DOC NO. : |   |   |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                                   |              |                                    |                            |                    |                  |     |     |     |      |     |         |             | REV NO. :                                         |   |   |           |   |   |  |
|                                                                                                                                                                                                                                                                                                                                                     |              |                                    |                            |                    |                  |     |     |     |      |     |         |             | DATE :                                            |   |   |           |   |   |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                                    |              |                                    |                            |                    |                  |     |     |     |      |     |         |             |                                                   |   |   |           |   |   |  |
| 2487                                                                                                                                                                                                                                                                                                                                                | 71-PB-7107   | START                              | 17039-EK-P-DW-0217-02      | N/A                | FIRE WATER PANEL | DI  | N/A | N/A | N/A  | N/A | MPC-5   | N/A         | N/A                                               | - | - | -         | A | - |  |
| 2488                                                                                                                                                                                                                                                                                                                                                | 71-PB-7107   | STOP                               | 17039-EK-P-DW-0217-02      | N/A                | FIRE WATER PANEL | DI  | N/A | N/A | N/A  | N/A | MPC-5   | N/A         | N/A                                               | - | - | -         | A | - |  |
| 2489                                                                                                                                                                                                                                                                                                                                                | 71-XA-7107   | SHUTDOWN                           | 17039-EK-P-DW-0217-02      | N/A                | FIRE WATER PANEL | DO  | N/A | N/A | N/A  | N/A | MPC-5   | N/A         | N/A                                               | - | - | -         | A | - |  |
| 2490                                                                                                                                                                                                                                                                                                                                                | 71-FV-7110   | FLOW CONTROL VALVE                 | 17039-EK-P-DW-0217-03      | 2"-WF-71-7132-AG01 | N/A              | N/A | 15  | 80  | 10.5 | 41  | MPC - 5 | 1"150#RF    | BODY : CARBONSTEEL<br>(GALVANIZED) / TRIM : SS316 | * | * | -         | A | - |  |
| 2491                                                                                                                                                                                                                                                                                                                                                | 71-FY-7110   | POSITIONER                         | 17039-EK-P-DW-0217-03      | N/A                | DCS              | AO  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2492                                                                                                                                                                                                                                                                                                                                                | 71-FT-7110   | MAGNETIC TYPE FLOW TRANSMITTER     | 17039-EK-P-DW-0217-03      | 4"-WF-71-7123-AG01 | DCS              | AI  | 15  | 80  | 10.5 | 41  | MPC - 5 | 4"150#RF    | SS316                                             | * | * | -         | A | - |  |
| 2493                                                                                                                                                                                                                                                                                                                                                | 71-PI-7108A  | PRESSURE INDICATOR                 | 17039-EK-P-DW-0217-03      | 4"-WF-71-7130-AG01 | N/A              | N/A | 15  | 80  | 10.5 | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2494                                                                                                                                                                                                                                                                                                                                                | 71-PI-7108B  | PRESSURE INDICATOR                 | 17039-EK-P-DW-0217-03      | 4"-WF-71-7131-AG01 | N/A              | N/A | 15  | 80  | 10.5 | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2495                                                                                                                                                                                                                                                                                                                                                | 71-PT-7109A  | PRESSURE TRANSMITTER               | 17039-EK-P-DW-0217-03      | 4"-WF-71-7130-AG01 | PSD              | AI  | 15  | 80  | 10.5 | 41  | MPC - 5 | 1/2"NPTF    | SS316                                             | * | * | -         | A | - |  |
| 2496                                                                                                                                                                                                                                                                                                                                                | 71-PT-7109B  | PRESSURE TRANSMITTER               | 17039-EK-P-DW-0217-03      | 4"-WF-71-7131-AG01 | PSD              | AI  | 15  | 80  | 10.5 | 41  | MPC - 5 | 1/2"NPTF    | SS316                                             | * | * | -         | A | - |  |
| 2497                                                                                                                                                                                                                                                                                                                                                | 71-XC-3130A  | START / STOP                       | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130A  | DCS              | DO  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2498                                                                                                                                                                                                                                                                                                                                                | 71-XI-3130A  | RUNNING                            | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130A  | DCS              | DI  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2499                                                                                                                                                                                                                                                                                                                                                | 71-XA-3130A  | FAULT ALARM                        | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130A  | DCS              | DI  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2500                                                                                                                                                                                                                                                                                                                                                | 71-XE-3130A  | AVAILABLE                          | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130A  | DCS              | DI  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2501                                                                                                                                                                                                                                                                                                                                                | 71-XB-3130A  | TRIP FEEDBACK                      | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130A  | DCS              | DI  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2502                                                                                                                                                                                                                                                                                                                                                | 71-XS-3130A  | SHUTDOWN / TRIP                    | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130A  | PSD              | DO  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2503                                                                                                                                                                                                                                                                                                                                                | 71-XXS-3130A | SHUTDOWN / TRIP                    | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130A  | ESD              | DO  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2504                                                                                                                                                                                                                                                                                                                                                | 71-XC-3130B  | START / STOP                       | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130B  | DCS              | DO  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2505                                                                                                                                                                                                                                                                                                                                                | 71-XI-3130B  | RUNNING                            | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130B  | DCS              | DI  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2506                                                                                                                                                                                                                                                                                                                                                | 71-XA-3130B  | FAULT ALARM                        | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130B  | DCS              | DI  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2507                                                                                                                                                                                                                                                                                                                                                | 71-XE-3130B  | AVAILABLE                          | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130B  | DCS              | DI  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2508                                                                                                                                                                                                                                                                                                                                                | 71-XB-3130B  | TRIP FEEDBACK                      | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130B  | DCS              | DI  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2509                                                                                                                                                                                                                                                                                                                                                | 71-XS-3130B  | SHUTDOWN / TRIP                    | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130B  | PSD              | DO  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2510                                                                                                                                                                                                                                                                                                                                                | 71-XXS-3130B | SHUTDOWN / TRIP                    | 17039-EK-P-DW-0217-03      | EK-PBA(TYP)-3130B  | ESD              | DO  | N/A | N/A | N/A  | N/A | MPC - 5 | N/A         | N/A                                               | * | * | -         | A | - |  |
| 2511                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-04      | 71-ZZZ-7101        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2512                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-04      | 71-ZZZ-7101        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2513                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-04      | 71-ZZZ-7101        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2514                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-04      | 71-ZZZ-7101        | PSD              | DI  | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2515                                                                                                                                                                                                                                                                                                                                                | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE) | 17039-EK-P-DW-0217-04      | 71-ZZZ-7101        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 2 | 2"12500#RTJ | SS316                                             | * | * | -         | A | - |  |
| 2516                                                                                                                                                                                                                                                                                                                                                | 71-RO-XXXX   | RESTRICTION ORIFICE                | 17039-EK-P-DW-0217-04      | 6"-WF-71-7301-AC01 | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 2 | 2"12500#RTJ | SS316                                             | * | * | -         | A | - |  |
| 2517                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-04      | 71-ZZZ-7102        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2518                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-04      | 71-ZZZ-7102        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2519                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-04      | 71-ZZZ-7102        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2520                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-04      | 71-ZZZ-7102        | PSD              | DI  | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2521                                                                                                                                                                                                                                                                                                                                                | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE) | 17039-EK-P-DW-0217-04      | 71-ZZZ-7102        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 2 | 2"12500#RTJ | SS316                                             | * | * | -         | A | - |  |
| 2522                                                                                                                                                                                                                                                                                                                                                | 71-RO-XXXX   | RESTRICTION ORIFICE                | 17039-EK-P-DW-0217-04      | 6"-WF-71-7304-AC01 | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 2 | 2"12500#RTJ | SS316                                             | * | * | -         | A | - |  |
| 2523                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-04      | 71-ZZZ-7103        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2524                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-04      | 71-ZZZ-7103        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2525                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-04      | 71-ZZZ-7103        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2526                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-04      | 71-ZZZ-7103        | PSD              | DI  | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2527                                                                                                                                                                                                                                                                                                                                                | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE) | 17039-EK-P-DW-0217-04      | 71-ZZZ-7103        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 2 | 2"12500#RTJ | SS316                                             | * | * | -         | A | - |  |
| 2528                                                                                                                                                                                                                                                                                                                                                | 71-RO-XXXX   | RESTRICTION ORIFICE                | 17039-EK-P-DW-0217-04      | 6"-WF-71-7310-AC01 | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 2 | 2"12500#RTJ | SS316                                             | * | * | -         | A | - |  |
| 2529                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-05      | 71-ZZZ-7104        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2530                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-05      | 71-ZZZ-7104        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2531                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-05      | 71-ZZZ-7104        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2532                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-05      | 71-ZZZ-7104        | PSD              | DI  | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2533                                                                                                                                                                                                                                                                                                                                                | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE) | 17039-EK-P-DW-0217-05      | 71-ZZZ-7104        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 2 | 2"12500#RTJ | SS316                                             | * | * | -         | A | - |  |
| 2534                                                                                                                                                                                                                                                                                                                                                | 71-RO-XXXX   | RESTRICTION ORIFICE                | 17039-EK-P-DW-0217-05      | 6"-WF-71-7316-AC01 | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 2 | 2"12500#RTJ | SS316                                             | * | * | -         | A | - |  |
| 2535                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-05      | 71-ZZZ-7105        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2536                                                                                                                                                                                                                                                                                                                                                | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-EK-P-DW-0217-05      | 71-ZZZ-7105        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2537                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-05      | 71-ZZZ-7105        | N/A              | N/A | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * | -         | A | - |  |
| 2538                                                                                                                                                                                                                                                                                                                                                | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-EK-P-DW-0217-05      | 71-ZZZ-7105        | PSD              | DI  | 15  | 80  | 10   | 41  | MPC - 5 | 1/2"NPTM    | SS316                                             | * | * |           |   |   |  |

|                                                                                                                                                                                                                                                                                                                                              |              |                                                                |                                         |                                  |                    |     |        |     |     |     |         |                |                                                   |           |   |   |           |   |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------|-----------------------------------------|----------------------------------|--------------------|-----|--------|-----|-----|-----|---------|----------------|---------------------------------------------------|-----------|---|---|-----------|---|--|--|
| <div><div>KAVIN™</div><div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्योग)<br/><b>Oil India Limited</b><br/><small>an enterprise of India Group</small></div></div></div> |              |                                                                | CLIENT : OIL INDIA LIMITED              |                                  |                    |     |        |     |     |     |         |                |                                                   |           |   |   | DOC NO. : |   |  |  |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                                                                                                                                                            |              |                                                                |                                         |                                  |                    |     |        |     |     |     |         |                |                                                   | REV NO. : |   |   |           |   |  |  |
|                                                                                                                                                                                                                                                                                                                                              |              |                                                                |                                         |                                  |                    |     |        |     |     |     |         |                |                                                   | DATE :    |   |   |           |   |  |  |
| INSTRUMENT INDEX                                                                                                                                                                                                                                                                                                                             |              |                                                                |                                         |                                  |                    |     |        |     |     |     |         |                |                                                   |           |   |   |           |   |  |  |
| 2548                                                                                                                                                                                                                                                                                                                                         | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)                              | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7107                      | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2549                                                                                                                                                                                                                                                                                                                                         | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)                                 | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7107                      | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2550                                                                                                                                                                                                                                                                                                                                         | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)                                 | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7107                      | PSD                | DI  | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2551                                                                                                                                                                                                                                                                                                                                         | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE)                             | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7107                      | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 2 | 2"/2500#RTJ    | SS316                                             | *         | * | - | A         | - |  |  |
| 2552                                                                                                                                                                                                                                                                                                                                         | 71-RO-XXXX   | RESTRICTION ORIFICE                                            | 17039-EK-P-DW-0217-06                   | 6"-WF-71-7331-AC01               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 2 | 2"/2500#RTJ    | SS316                                             | *         | * | - | A         | - |  |  |
| 2553                                                                                                                                                                                                                                                                                                                                         | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)                              | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7108                      | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2554                                                                                                                                                                                                                                                                                                                                         | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)                              | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7108                      | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2555                                                                                                                                                                                                                                                                                                                                         | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)                                 | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7108                      | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2556                                                                                                                                                                                                                                                                                                                                         | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)                                 | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7108                      | PSD                | DI  | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2557                                                                                                                                                                                                                                                                                                                                         | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE)                             | 17039-EK-P-DW-0217-06                   | 71-ZZZ-7108                      | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 2 | 2"/2500#RTJ    | SS316                                             | *         | * | - | A         | - |  |  |
| 2558                                                                                                                                                                                                                                                                                                                                         | 71-RO-XXXX   | RESTRICTION ORIFICE                                            | 17039-EK-P-DW-0217-06                   | 6"-WF-71-7337-AC01               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 2 | 2"/2500#RTJ    | SS316                                             | *         | * | - | A         | - |  |  |
| 2559                                                                                                                                                                                                                                                                                                                                         | 71-PCV-7250  | PRESSURE CONTROL VALVE                                         | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7200-AS20               | N/A                | N/A | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 1"/150#RF      | BODY : CARBONSTEEL<br>(GALVANIZED) / TRIM : SS316 | *         | * | - | A         | - |  |  |
| 2560                                                                                                                                                                                                                                                                                                                                         | 71-PI-7122A  | PRESSURE TRANSMITTER                                           | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7134-AS20               | PSD                | AI  | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 1/2"NPTF       | SS316                                             | *         | * | - | A         | - |  |  |
| 2561                                                                                                                                                                                                                                                                                                                                         | 71-PI-7121A  | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7134-AS20               | N/A                | N/A | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2562                                                                                                                                                                                                                                                                                                                                         | 71-PI-7121B  | PRESSURE TRANSMITTER                                           | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7135-AS20               | PSD                | AI  | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 1/2"NPTF       | SS316                                             | *         | * | - | A         | - |  |  |
| 2563                                                                                                                                                                                                                                                                                                                                         | 71-PI-7122B  | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7135-AS20               | N/A                | N/A | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2564                                                                                                                                                                                                                                                                                                                                         | 71-XC-3150A  | START / STOP                                                   | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | EK-PM-3150A                      | DCS                | DO  | N/A    | N/A | N/A | N/A | MPC - 5 | N/A            | N/A                                               | *         | * | - | A         | - |  |  |
| 2565                                                                                                                                                                                                                                                                                                                                         | 71-XI-3150A  | RUNNING                                                        | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | EK-PM-3150A                      | DCS                | DI  | N/A    | N/A | N/A | N/A | MPC - 5 | N/A            | N/A                                               | *         | * | - | A         | - |  |  |
| 2566                                                                                                                                                                                                                                                                                                                                         | 71-XA-3150A  | FAULT ALARM                                                    | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | EK-PM-3150A                      | DCS                | DI  | N/A    | N/A | N/A | N/A | MPC - 5 | N/A            | N/A                                               | *         | * | - | A         | - |  |  |
| 2567                                                                                                                                                                                                                                                                                                                                         | 71-XE-3150A  | AVAILABLE                                                      | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | EK-PM-3150A                      | DCS                | DI  | N/A    | N/A | N/A | N/A | MPC - 5 | N/A            | N/A                                               | *         | * | - | A         | - |  |  |
| 2568                                                                                                                                                                                                                                                                                                                                         | 71-XB-3150A  | TRIP FEEDBACK                                                  | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | EK-PM-3150A                      | DCS                | DI  | N/A    | N/A | N/A | N/A | MPC - 5 | N/A            | N/A                                               | *         | * | - | A         | - |  |  |
| 2569                                                                                                                                                                                                                                                                                                                                         | 71-XS-3150A  | SHUTDOWN / TRIP                                                | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | EK-PM-3150A                      | USD                | DO  | N/A    | N/A | N/A | N/A | MPC - 5 | N/A            | N/A                                               | *         | * | - | A         | - |  |  |
| 2570                                                                                                                                                                                                                                                                                                                                         | 71-XXS-3150A | SHUTDOWN / TRIP                                                | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | EK-PM-3150A                      | ESD                | DO  | N/A    | N/A | N/A | N/A | MPC - 5 | N/A            | N/A                                               | *         | * | - | A         | - |  |  |
| 2571                                                                                                                                                                                                                                                                                                                                         | 71-PS-8054   | PRESSURE SWITCH                                                | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7138-AS20               | FOAM CONTROL PANEL | DI  | 3.5/FV | 80  | ATM | AMB | MPC - 5 | N/A            | SS316                                             | *         | * | - | A         | - |  |  |
| 2572                                                                                                                                                                                                                                                                                                                                         | 71-PS-8055   | PRESSURE SWITCH                                                | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7138-AS20               | FOAM CONTROL PANEL | DI  | 3.5/FV | 80  | ATM | AMB | MPC - 5 | N/A            | SS316                                             | *         | * | - | A         | - |  |  |
| 2573                                                                                                                                                                                                                                                                                                                                         | 71-PS-8056   | PRESSURE SWITCH                                                | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7138-AS20               | FOAM CONTROL PANEL | DI  | 3.5/FV | 80  | ATM | AMB | MPC - 5 | N/A            | SS316                                             | *         | * | - | A         | - |  |  |
| 2574                                                                                                                                                                                                                                                                                                                                         | 71-FT-8057A  | DP TYPE FLOW TRANSMITTER                                       | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7138-AS20               | DCS                | AI  | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 1/2"NPTF       | SS316                                             | *         | * | - | A         | - |  |  |
| 2575                                                                                                                                                                                                                                                                                                                                         | 71-FE-8057A  | FLOW ELEMENT (ORIFICE)                                         | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7138-AS20               | N/A                | N/A | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 2"/150#RF      | SS316                                             | *         | * | - | A         | - |  |  |
| 2576                                                                                                                                                                                                                                                                                                                                         | 71-PSV-7123A | PRESSURE SAFETY VALVE                                          | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7140-AS20               | N/A                | N/A | 15     | 80  | 12  | AMB | MPC - 5 | 1" D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                 | *         | * | - | A         | - |  |  |
| 2577                                                                                                                                                                                                                                                                                                                                         | 71-PSV-7123B | PRESSURE SAFETY VALVE                                          | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | 2"-AF-71-7140-AS20               | N/A                | N/A | 15     | 80  | 12  | AMB | MPC - 5 | 1" D 2"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316                 | *         | * | - | A         | - |  |  |
| 2578                                                                                                                                                                                                                                                                                                                                         | 71-LT-8057   | DP TYPE LEVEL TRANSMITTER                                      | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | DIESEL DAY TANK                  | USD                | AI  | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 1/2"NPT        | SS316                                             | *         | * | - | A         | - |  |  |
| 2579                                                                                                                                                                                                                                                                                                                                         | 71-LG-7115   | LEVEL GAUGE                                                    | 17039-EK-P-DW-0217-10<br>(SHEET 1 OF 2) | FOAM CONCENTRATE<br>STORAGE TANK | NA                 | NA  | 3.5/FV | 80  | ATM | AMB | MPC - 5 | 2"/150#RF      | SS316                                             | *         | * | - | A         | - |  |  |
| 2580                                                                                                                                                                                                                                                                                                                                         | 71-PI-7255   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7205-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2581                                                                                                                                                                                                                                                                                                                                         | 71-PI-7256   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7205-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2582                                                                                                                                                                                                                                                                                                                                         | 71-PI-7257   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7209-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2583                                                                                                                                                                                                                                                                                                                                         | 71-PI-7258   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7209-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2584                                                                                                                                                                                                                                                                                                                                         | 71-PI-7259   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7213-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2585                                                                                                                                                                                                                                                                                                                                         | 71-PI-7260   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7213-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2586                                                                                                                                                                                                                                                                                                                                         | 71-PI-7261   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7217-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2587                                                                                                                                                                                                                                                                                                                                         | 71-PI-7262   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7217-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2588                                                                                                                                                                                                                                                                                                                                         | 71-PI-7263   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7221-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2589                                                                                                                                                                                                                                                                                                                                         | 71-PI-7264   | PRESSURE INDICATOR                                             | 17039-EK-P-DW-0217-10<br>(SHEET 2 OF 2) | 2"-AF-71-7221-AS20               | N/A                | N/A | 15     | 80  | 10  | 41  | MPC - 5 | 1/2"NPTM       | SS316                                             | *         | * | - | A         | - |  |  |
| 2590                                                                                                                                                                                                                                                                                                                                         | 20-PDT-2000  | DIFFERENCIAL PRESSURE TRANSMITTER                              | 17039-EK-P-DW-0219-01                   | 3"-PL-20-2402-AC01               | N/A                | N/A | 15     | 90  | 10  | 55  | CSC 4   | 1/2"NPT        | SS316                                             | *         | * | - | A         | - |  |  |
| 2591                                                                                                                                                                                                                                                                                                                                         | 20-MOV-2004  | MOTOR OPERATED VALVE (LOCAL CONTROL PANEL<br>WITH PUSH BUTTON) | 17039-EK-P-DW-0219-01                   | 3"-PL-20-2402-AC01               | N/A                | N/A | 15     | 90  | 10  | 55  | CSC 4   | 3"/150#RF      | BODY: CARBON STEEL<br>TRIM: SS316                 | *         | * | - | A         | - |  |  |
| 2592                                                                                                                                                                                                                                                                                                                                         | 20-ZSL-2004  | OPEN FEEDBACK                                                  | 17039-EK-P-DW-0219-01                   | N/A                              | DCS                | DI  | N/A    | N/A | N/A | N/A | CSC 4   | N/A            | N/A                                               | *         | * | - | A         | - |  |  |
|                                                                                                                                                                                                                                                                                                                                              |              |                                                                |                                         |                                  |                    |     |        |     |     |     |         |                |                                                   |           |   |   |           |   |  |  |

|                                                                                                                                                                                                   |             |                                                             |                            |                    |     |     |     |     |     |     |       |           |                                    |   |           |   |   |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------|----------------------------|--------------------|-----|-----|-----|-----|-----|-----|-------|-----------|------------------------------------|---|-----------|---|---|---|
| <div><div></div><div></div></div> |             |                                                             | CLIENT : OIL INDIA LIMITED |                    |     |     |     |     |     |     |       |           |                                    |   | DOC NO. : |   |   |   |
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM                                                                                                 |             |                                                             |                            |                    |     |     |     |     |     |     |       | REV NO. : |                                    |   |           |   |   |   |
| DATE :                                                                                                                                                                                            |             |                                                             |                            |                    |     |     |     |     |     |     |       |           |                                    |   |           |   |   |   |
| INSTRUMENT INDEX                                                                                                                                                                                  |             |                                                             |                            |                    |     |     |     |     |     |     |       |           |                                    |   |           |   |   |   |
| 2609                                                                                                                                                                                              | 20-ZSH-2006 | CLOSE FEEDBACK                                              | 17039-EK-P-DW-0219-01      | N/A                | DCS | DI  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2610                                                                                                                                                                                              | 20-SSR-2006 | REMOTE / LOCAL FEEDBACK                                     | 17039-EK-P-DW-0219-01      | N/A                | DCS | DI  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2611                                                                                                                                                                                              | 20-STR-2006 | OPEN COMMAND                                                | 17039-EK-P-DW-0219-01      | N/A                | ESD | DO  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2612                                                                                                                                                                                              | 20-STP-2006 | CLOSE COMMAND                                               | 17039-EK-P-DW-0219-01      | N/A                | ESD | DO  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2613                                                                                                                                                                                              | 20-XLT-2006 | TRIP                                                        | 17039-EK-P-DW-0219-01      | N/A                | ESD | DO  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2614                                                                                                                                                                                              | 20-PDT-2003 | DIFFERENCIAL PRESSURE TRANSMITTER                           | 17039-EK-P-DW-0219-01      | 3"-PL-20-2405-AC01 | N/A | N/A | 15  | 90  | 10  | 55  | CSC 4 | 1/2"NPT   | SS316                              | * | *         | - | A | - |
| 2615                                                                                                                                                                                              | 20-MOV-2007 | MOTOR OPERATED VALVE (LOCAL CONTROL PANEL WITH PUSH BUTTON) | 17039-EK-P-DW-0219-01      | 3"-PL-20-2405-AC01 | N/A | N/A | 15  | 90  | 10  | 55  | CSC 4 | 3"/150#RF | BODY: CARBON STEEL<br>TRIM: SS316  | * | *         | - | A | - |
| 2616                                                                                                                                                                                              | 20-ZSL-2007 | OPEN FEEDBACK                                               | 17039-EK-P-DW-0219-01      | N/A                | DCS | DI  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2617                                                                                                                                                                                              | 20-ZSH-2007 | CLOSE FEEDBACK                                              | 17039-EK-P-DW-0219-01      | N/A                | DCS | DI  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2618                                                                                                                                                                                              | 20-SSR-2007 | REMOTE / LOCAL FEEDBACK                                     | 17039-EK-P-DW-0219-01      | N/A                | DCS | DI  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2619                                                                                                                                                                                              | 20-STR-2007 | OPEN COMMAND                                                | 17039-EK-P-DW-0219-01      | N/A                | ESD | DO  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2620                                                                                                                                                                                              | 20-STP-2007 | CLOSE COMMAND                                               | 17039-EK-P-DW-0219-01      | N/A                | ESD | DO  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2621                                                                                                                                                                                              | 20-XLT-2007 | TRIP                                                        | 17039-EK-P-DW-0219-01      | N/A                | ESD | DO  | N/A | N/A | N/A | N/A | CSC 4 | N/A       | N/A                                | * | *         | - | A | - |
| 2622                                                                                                                                                                                              | 20-FT-2008  | CORIO LIS TYPE FLOW METER - FISCAL FLOW METER               | 17039-EK-P-DW-0219-01      | 3"-PL-20-2402-AC01 | DCS | AI  | 15  | 90  | 10  | 55  | CSC 4 | 3"/150#RF | Body: carbon steel<br>Trim : SS316 | * | *         | * | A | - |
| 2623                                                                                                                                                                                              | 20-FT-2009  | CORIO LIS TYPE FLOW METER - FISCAL FLOW METER               | 17039-EK-P-DW-0219-01      | 3"-PL-20-2403-AC01 | DCS | AI  | 15  | 90  | 10  | 55  | CSC 4 | 3"/150#RF | Body: carbon steel<br>Trim : SS316 | * | *         | * | A | - |

INSTRUMENT INDEX

|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|--|-----|------|-------------|----|-----|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|--|
|  |     |      |             |    |     |      | CLIENT:                                                                                                                                                                                                                                 | <div><div>ऑयल इंडिया लिमिटेड<br/>( भारत सरकार का उद्यम )<br/><b>Oil India Limited</b><br/><small>(A Government of India Enterprise)</small></div></div> | PROJECT |  |  |
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|  |     |      |             |    |     |      | CONSULTANT:                                                                                                                                                                                                                             | <div><div>KAVIN<sup>TM</sup></div></div>                                                                                                                | TITLE   |  |  |
|  |     |      |             |    |     |      | INSTRUMENT INDEX                                                                                                                                                                                                                        |                                                                                                                                                                                                                                              |         |  |  |
|  | A   |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|  | REV | DATE | DESCRIPTION | BY | CHK | APPR |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
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|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
|  |     |      |             |    |     |      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |         |  |  |
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DOCUMENT NO.

REV

PAGE No.

## INDEX SHEET

[illegible]

NOTES SHEET

Nadua

Count of I/O TYPE

| Row Labels  | AI  | AO | DI  | DO  | Grand Total |
|-------------|-----|----|-----|-----|-------------|
| DCS         | 138 | 58 | 608 | 80  | 884         |
| ESD         | 6   |    |     | 143 | 149         |
| PSD         | 184 |    | 8   | 162 | 354         |
| USD         | 30  |    |     | 25  | 55          |
| Grand Total | 358 | 58 | 616 | 410 | 1442        |

ESD and F&G are combined system  
PSD & USD are part of ESD System

ABBREVIATIONS:  
BMS - BURNER MANAGEMENT SYSTEM  
ESD - EMERGENCY SHUTDOWN SYSTEM  
PCS - PROCESS CONTROL SYSTEM  
PSD - PROCESS SHUTDOWN  
TCP - TRANSFORMER CONTROL PANEL  
USD - UNIT SHUTDOWN

|     |    |  |    |   |
|-----|----|--|----|---|
| F&G | 53 |  | 15 | 2 |
|-----|----|--|----|---|

IO Counts are exclusive of spares  
Bidder shall consider 20% Installed spares and 20% spare space  
  
AI, AO, DI shall be intrisically safe

| <div><div><div>KAVIN™</div></div><div><div>अभियान बुनियादी निर्माण<br/>Oil India Limited</div></div></div> <div></div> <th colspan="11">CLIENT : OIL INDIA LIMITED</th> <th colspan="1">DOC NO. :</th> <th colspan="3" rowspan="2"></th> |             |                                          |                       | CLIENT : OIL INDIA LIMITED                                                                        |        |          |                           |                   |                              |                      |         |               |                                    |              | DOC NO. : |                |      |        |
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|                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                          |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |         |               |                                    |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                                                                                                                                                                                                         |             |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                    |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                                                                                                                                                                                                    | Tag No      | INSTRUMENT DESCRIPTION                   | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 1                                                                                                                                                                                                                                                                                                                                                                                                       | 42-FI-3803  | ROTAMETER                                | 17039-ND-P-DW-0202-05 | 1/2"-CV-42-8601-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                       | 42-FI-8004  | ROTAMETER                                | 17039-ND-P-DW-0202-05 | 1/2"-CV-42-7686-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                       | 42-FI-8005  | ROTAMETER                                | 17039-ND-P-DW-0202-05 | 1/2"-CV-42-7687-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                       | 13-SDV-0001 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                       | 13-SDY-0001 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                       | 13-ZSL-0001 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 7                                                                                                                                                                                                                                                                                                                                                                                                       | 13-ZSH-0001 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 8                                                                                                                                                                                                                                                                                                                                                                                                       | 13-SDV-0007 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 9                                                                                                                                                                                                                                                                                                                                                                                                       | 13-SDY-0007 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 10                                                                                                                                                                                                                                                                                                                                                                                                      | 13-ZSL-0007 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 11                                                                                                                                                                                                                                                                                                                                                                                                      | 13-ZSH-0007 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 12                                                                                                                                                                                                                                                                                                                                                                                                      | 13-SDV-0013 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 13                                                                                                                                                                                                                                                                                                                                                                                                      | 13-SDY-0013 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 14                                                                                                                                                                                                                                                                                                                                                                                                      | 13-ZSL-0013 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 15                                                                                                                                                                                                                                                                                                                                                                                                      | 13-ZSH-0013 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 16                                                                                                                                                                                                                                                                                                                                                                                                      | 13-PI-0002  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 17                                                                                                                                                                                                                                                                                                                                                                                                      | 13-PI-0008  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 18                                                                                                                                                                                                                                                                                                                                                                                                      | 13-PI-0014  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 19                                                                                                                                                                                                                                                                                                                                                                                                      | 13-PT-0003  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 20                                                                                                                                                                                                                                                                                                                                                                                                      | 13-PT-0009  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 21                                                                                                                                                                                                                                                                                                                                                                                                      | 13-PT-0015  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 22                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TW-0004  | THERMOWELL                               | 17039-ND-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 23                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TI-0004  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 24                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TW-0010  | THERMOWELL                               | 17039-ND-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 25                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TI-0010  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 26                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TW-0016  | THERMOWELL                               | 17039-ND-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 27                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TI-0016  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 28                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TW-0011  | THERMOWELL                               | 17039-ND-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 29                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TT-0011  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-05 | 4"-PT-13-0002-FC01                                                                                | PSD    | AI       | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 30                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TW-005   | THERMOWELL                               | 17039-ND-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 31                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TT-005   | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-05 | 4"-PT-13-0001-FC01                                                                                | PSD    | AI       | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 32                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TW-0017  | THERMOWELL                               | 17039-ND-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 33                                                                                                                                                                                                                                                                                                                                                                                                      | 13-TT-0017  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-05 | 4"-PT-13-0003-FC01                                                                                | PSD    | AI       | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 34                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -1                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 35                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -1                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 36                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -1                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 37                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -2                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 38                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -2                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 39                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -2                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 40                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -3                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 41                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -3                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 42                                                                                                                                                                                                                                                                                                                                                                                                      | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-05 | HP WELL -3                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 43                                                                                                                                                                                                                                                                                                                                                                                                      | 42-FI-8019  | ROTAMETER                                | 17039-ND-P-DW-0202-06 | 1/2"-CV-42-7728-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 44                                                                                                                                                                                                                                                                                                                                                                                                      | 42-FI-8020  | ROTAMETER                                | 17039-ND-P-DW-0202-06 | 1/2"-CV-42-7729-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 45                                                                                                                                                                                                                                                                                                                                                                                                      | 42-FI-8021  | ROTAMETER                                | 17039-ND-P-DW-0202-06 | 1/2"-CV-42-7730-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 46                                                                                                                                                                                                                                                                                                                                                                                                      | 13-SDV-0018 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-06 | 4"-PT-13-0014-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 47                                                                                                                                                                                                                                                                                                                                                                                                      | 13-SDY-0018 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-06 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 48                                                                                                                                                                                                                                                                                                                                                                                                      | 13-ZSL-0018 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A</  |        |

| <div><div><div>KAVIN™</div></div><div><div>अभियान इंजिनियरिंग लिमिटेड<br/>Oil India Limited</div></div></div> <div><div>CLIENT : OIL INDIA LIMITED</div><div>PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS &amp; GGS) AT NADUA &amp; EAST KHAGORIJAN, ASSAM</div></div> <div><div>DOC NO. :</div><div>REV NO. :</div><div>DATE :</div></div> |             |                                          |                       |                      |        |          |                           |                   |                              |                      |         |               |                                    |              |           |                |      |        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|-----------------------|----------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|---------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                          |                       |                      |        |          |                           |                   |                              |                      |         |               |                                    |              |           |                |      |        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                          |                       |                      |        |          |                           |                   |                              |                      |         |               |                                    |              |           |                |      |        |  |
| S.No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Tag No      | INSTRUMENT DESCRIPTION                   | P&ID NO.              | LINE / VESSEL NO.    | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-PT-0026  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-06 | 4"-PT-13-0015-FC01   | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-PT-0032  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-06 | 4"-PT-13-0016-FC01   | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TI-0021  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-06 | 4"-PT-13-0014-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TW-0021  | THERMOWELL                               | 17039-ND-P-DW-0202-06 | 4"-PT-13-0014-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TI-0027  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-06 | 4"-PT-13-0015-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TW-0027  | THERMOWELL                               | 17039-ND-P-DW-0202-06 | 4"-PT-13-0015-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TW-0033  | THERMOWELL                               | 17039-ND-P-DW-0202-06 | 4"-PT-13-0016-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TI-0033  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-06 | 4"-PT-13-0016-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TW-0022  | THERMOWELL                               | 17039-ND-P-DW-0202-06 | 4"-PT-13-0014-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TT-0022  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-06 | 4"-PT-13-0014-FC01   | PSD    | AI       | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TW-0028  | THERMOWELL                               | 17039-ND-P-DW-0202-06 | 4"-PT-13-0015-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TT-0028  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-06 | 4"-PT-13-0015-FC01   | PSD    | AI       | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TW-0034  | THERMOWELL                               | 17039-ND-P-DW-0202-06 | 4"-PT-13-0016-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-TT-0034  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-06 | 4"-PT-13-0016-FC01   | PSD    | AI       | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -4           | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -4           | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -4           | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -5           | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -5           | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -5           | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -6           | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -6           | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-06 | HP WELL -6           | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 42-FI-8022  | ROTAMETER                                | 17039-ND-P-DW-0202-07 | 1/2"-CV-42-7752-GT20 | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 42-FI-8023  | ROTAMETER                                | 17039-ND-P-DW-0202-07 | 1/2"-CV-42-7753-GT20 | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 42-FI-8024  | ROTAMETER                                | 17039-ND-P-DW-0202-07 | 1/2"-CV-42-7687-GT20 | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-SDV-0036 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-07 | 4"-PT-13-0027-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-SDY-0036 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-07 | N/A                  | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-ZSL-0036 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-07 | N/A                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-ZSH-0036 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-07 | N/A                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-SDV-0042 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-07 | 4"-PT-13-0028-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-SDY-0042 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-07 | N/A                  | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-ZSL-0042 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-07 | N/A                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-ZSH-0042 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-07 | N/A                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-SDV-0048 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-07 | 4"-PT-13-0029-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-SDY-0048 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-07 | N/A                  | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-ZSL-0048 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-07 | N/A                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13-ZSH-0048 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-07 | N/A                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-PI-0037  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-07 | 4"-PT-13-0027-FC01   | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-PI-0043  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-07 | 4"-PT-13-0028-FC01   | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-PI-0049  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-07 | 4"-PT-13-0029-FC01   | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-PT-0038  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-07 | 4"-PT-13-0027-FC01   | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-PT-0044  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-07 | 4"-PT-13-0028-FC01   | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-PT-0050  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-07 | 4"-PT-13-0029-FC01   | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-TI-0039  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-07 | 4"-PT-13-0027-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-TW-0039  | THERMOWELL                               | 17039-ND-P-DW-0202-07 | 4"-PT-13-0027-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS317                              | *            | *         | -              | A    | -      |  |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-TW-0045  | THERMOWELL                               | 17039-ND-P-DW-0202-07 | 4"-PT-13-0028-FC01   | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS317                              | *            | *         | -              | A    | -      |  |
| 109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13-TI-0045  | TEMPERATURE INDICATOR                    |                       |                      |        |          |                           |                   |                              |                      |         |               |                                    |              |           |                |      |        |  |

| <div><div></div><div></div></div> |             |                                          |                       | CLIENT : OIL INDIA LIMITED                                                                        |        |          |                           |                   |                              |                      |         |               |                                    |              |           | DOC NO. :      |      |        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|---------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                  |             |                                          |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |         |               |                                    |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                  |             |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                    |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                             | Tag No      | INSTRUMENT DESCRIPTION                   | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 123                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-07 | HP WELL -8                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 124                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-07 | HP WELL -9                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 125                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-07 | HP WELL -9                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 126                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-07 | HP WELL -9                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 127                                                                                                                                                                                              | 42-FI-3803  | ROTAMETER                                | 17039-ND-P-DW-0202-08 | 1/2"-CV-42-7755-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 128                                                                                                                                                                                              | 42-FI-8026  | ROTAMETER                                | 17039-ND-P-DW-0202-08 | 1/2"-CV-42-7686-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 129                                                                                                                                                                                              | 42-FI-8027  | ROTAMETER                                | 17039-ND-P-DW-0202-08 | 1/2"-CV-42-7687-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 130                                                                                                                                                                                              | 13-SDV-0054 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-08 | 4"-PT-13-0040-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 131                                                                                                                                                                                              | 13-SDY-0054 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-08 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 132                                                                                                                                                                                              | 13-ZSL-0054 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-08 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 133                                                                                                                                                                                              | 13-ZSH-0054 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-08 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 134                                                                                                                                                                                              | 13-SDV-0060 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-08 | 4"-PT-13-0041-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 135                                                                                                                                                                                              | 13-SDY-0060 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-08 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 136                                                                                                                                                                                              | 13-ZSL-0060 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-08 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 137                                                                                                                                                                                              | 13-ZSH-0060 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-08 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 138                                                                                                                                                                                              | 13-SDV-0066 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-08 | 4"-PT-13-0042-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 139                                                                                                                                                                                              | 13-SDY-0066 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-08 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 140                                                                                                                                                                                              | 13-ZSL-0066 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-08 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 141                                                                                                                                                                                              | 13-ZSH-0066 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-08 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 142                                                                                                                                                                                              | 13-PI-0055  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-08 | 4"-PT-13-0040-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 143                                                                                                                                                                                              | 13-PI-0061  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-08 | 4"-PT-13-0041-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 144                                                                                                                                                                                              | 13-PI-0067  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-08 | 4"-PT-13-0042-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 145                                                                                                                                                                                              | 13-PT-0068  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-08 | 4"-PT-13-0042-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 146                                                                                                                                                                                              | 13-PT-0056  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-08 | 4"-PT-13-0040-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 147                                                                                                                                                                                              | 13-PT-0062  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-08 | 4"-PT-13-0041-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 148                                                                                                                                                                                              | 13-TI-0057  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-08 | 4"-PT-13-0040-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 149                                                                                                                                                                                              | 13-TW-0057  | THERMOWELL                               | 17039-ND-P-DW-0202-08 | 4"-PT-13-0040-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 150                                                                                                                                                                                              | 13-TW-0063  | THERMOWELL                               | 17039-ND-P-DW-0202-08 | 4"-PT-13-0041-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 151                                                                                                                                                                                              | 13-TI-0063  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-08 | 4"-PT-13-0041-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 152                                                                                                                                                                                              | 13-TW-0069  | THERMOWELL                               | 17039-ND-P-DW-0202-08 | 4"-PT-13-0042-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 153                                                                                                                                                                                              | 13-TI-0069  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-08 | 4"-PT-13-0042-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 154                                                                                                                                                                                              | 13-TT-0058  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-08 | 4"-PT-13-0040-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 155                                                                                                                                                                                              | 13-TW-0058  | THERMOWELL                               | 17039-ND-P-DW-0202-08 | 4"-PT-13-0040-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 156                                                                                                                                                                                              | 13-TT-0064  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-08 | 4"-PT-13-0041-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 157                                                                                                                                                                                              | 13-TW-0064  | THERMOWELL                               | 17039-ND-P-DW-0202-08 | 4"-PT-13-0041-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 158                                                                                                                                                                                              | 13-TT-0070  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-08 | 4"-PT-13-0042-FC01                                                                                | PSD    | AI       | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 159                                                                                                                                                                                              | 13-TW-0070  | THERMOWELL                               | 17039-ND-P-DW-0202-08 | 4"-PT-13-0042-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 160                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -10                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 161                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -10                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 162                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -10                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 163                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -11                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 164                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -11                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 165                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -11                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 166                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -12                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 167                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -12                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 168                                                                                                                                                                                              | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-08 | HP WELL -12                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 169                                                                                                                                                                                              | 42-FI-8028  | ROTAMETER                                | 17039-ND-P-DW-0202-09 | 1/2"-CV-42-7774-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 170                                                                                                                                                                                              | 42-FI-8004  | ROTAMETER                                | 17039-ND-P-DW-0202-09 | 1/2"-CV-42-7776-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 171                                                                                                                                                                                              | 42-FI-8029  | ROTAMETER                                | 17039-ND-P-DW-0202-09 | 1/2"-CV-42-7775-GT20                                                                              |        |          |                           |                   |                              |                      |         |               |                                    |              |           |                |      |        |  |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------|--------|------------------------|----------|-------------------|--------|----------|---------------------------|-------------------|------------------------------------|----------------------|-----|---------------|---------------|--------------|-----------|----------------|
|                                                                                                                                                                                                                                                                                                                                      |             |                                          |                       |                                                                                                    |        |                        |          |                   |        |          |                           |                   |                                    |                      |     | DATE :        |               |              |           |                |
|                                                                                                                                                                                                                                                                                                                                      |             |                                          |                       | S.No                                                                                               | Tag No | INSTRUMENT DESCRIPTION | P&ID NO. | LINE / VESSEL NO. | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g)       | OPERATING TEMP. (°C) | MPC | SIZE / RATING | BODY MATERIAL | MANUFACTURER | MODEL NO. | DATA SHEET NO. |
| 184                                                                                                                                                                                                                                                                                                                                  | 13-PI-0073  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-09 | 4"-PT-13-0053-FC01                                                                                 | N/A    | N/A                    | 350      | 108               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 185                                                                                                                                                                                                                                                                                                                                  | 13-PI-0079  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-09 | 4"-PT-13-0002-FC01                                                                                 | N/A    | N/A                    | 350      | 108               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 186                                                                                                                                                                                                                                                                                                                                  | 13-PI-0179  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-09 | 4"-PT-13-0120-FC01                                                                                 | N/A    | N/A                    | 350      | 108               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 187                                                                                                                                                                                                                                                                                                                                  | 13-PT-0074  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-09 | 4"-PT-13-0053-FC01                                                                                 | PSD    | AI                     | 350      | 108               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 188                                                                                                                                                                                                                                                                                                                                  | 13-PT-0080  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-09 | 4"-PT-13-0002-FC01                                                                                 | PSD    | AI                     | 350      | 108               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 189                                                                                                                                                                                                                                                                                                                                  | 13-PT-0180  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-09 | 4"-PT-13-0120-FC01                                                                                 | PSD    | AI                     | 350      | 108               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 190                                                                                                                                                                                                                                                                                                                                  | 13-TI-0075  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-09 | 4"-PT-13-0053-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 1/2"NPTM          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 191                                                                                                                                                                                                                                                                                                                                  | 13-TW-0075  | THERMOWELL                               | 17039-ND-P-DW-0202-09 | 4"-PT-13-0053-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 192                                                                                                                                                                                                                                                                                                                                  | 13-TW-0081  | THERMOWELL                               | 17039-ND-P-DW-0202-09 | 4"-PT-13-0002-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 193                                                                                                                                                                                                                                                                                                                                  | 13-TI-0081  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-09 | 4"-PT-13-0002-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 1/2"NPTM          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 194                                                                                                                                                                                                                                                                                                                                  | 13-TW-0181  | THERMOWELL                               | 17039-ND-P-DW-0202-09 | 4"-PT-13-0120-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 195                                                                                                                                                                                                                                                                                                                                  | 13-TI-0181  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-09 | 4"-PT-13-0120-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 1/2"NPTM          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 196                                                                                                                                                                                                                                                                                                                                  | 13-TI-0076  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-09 | 4"-PT-13-0053-FC01                                                                                 | PSD    | AI                     | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 1/2"NPTM          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 197                                                                                                                                                                                                                                                                                                                                  | 13-TW-0076  | THERMOWELL                               | 17039-ND-P-DW-0202-09 | 4"-PT-13-0053-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 198                                                                                                                                                                                                                                                                                                                                  | 13-TW-0082  | THERMOWELL                               | 17039-ND-P-DW-0202-09 | 4"-PT-13-0002-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 199                                                                                                                                                                                                                                                                                                                                  | 13-TT-0082  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-09 | 4"-PT-13-0002-FC01                                                                                 | PSD    | AI                     | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 1/2"NPTM          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 200                                                                                                                                                                                                                                                                                                                                  | 13-TW-0182  | THERMOWELL                               | 17039-ND-P-DW-0202-09 | 4"-PT-13-0120-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 201                                                                                                                                                                                                                                                                                                                                  | 13-TT-0182  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-09 | 4"-PT-13-0120-FC01                                                                                 | PSD    | AI                     | 350      | 100               | 10-90  | 27-50    | MPC-2                     | 1/2"NPTM          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 202                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -13                                                                                        | PSD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 203                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -13                                                                                        | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 204                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -13                                                                                        | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 205                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -14                                                                                        | PSD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 206                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -14                                                                                        | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 207                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -14                                                                                        | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 208                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -15                                                                                        | PSD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 209                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -15                                                                                        | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 210                                                                                                                                                                                                                                                                                                                                  | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-09 | HP WELL -15                                                                                        | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC - 2                   | N/A               | N/A                                | *                    | *   | -             | A             | -            |           |                |
| 211                                                                                                                                                                                                                                                                                                                                  | 42-FI-8030  | ROTAMETER                                | 17039-ND-P-DW-0202-10 | 1/2"-CV-42-7784-GT20                                                                               | N/A    | N/A                    | 110      | 80                | 95     | AMB      | MPC-2                     | 1/2" NPT          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 212                                                                                                                                                                                                                                                                                                                                  | 42-FI-8031  | ROTAMETER                                | 17039-ND-P-DW-0202-10 | 1/2"-CV-42-7785-GT20                                                                               | N/A    | N/A                    | 110      | 80                | 95     | AMB      | MPC-2                     | 1/2" NPT          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 213                                                                                                                                                                                                                                                                                                                                  | 42-FI-8035  | ROTAMETER                                | 17039-ND-P-DW-0202-10 | 1/2"-CV-42-7786-GT20                                                                               | N/A    | N/A                    | 110      | 80                | 95     | AMB      | MPC-2                     | 1/2" NPT          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 214                                                                                                                                                                                                                                                                                                                                  | 13-SDV-0294 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-10 | 4"-PT-13-0109-FC01                                                                                 | N/A    | N/A                    | 350      | 100               | 5-10   | 27-50    | MPC-2                     | 4"/2500# RTJ      | Body: carbon steel<br>Trim : SS316 | *                    | *   | -             | A             | -            |           |                |
| 215                                                                                                                                                                                                                                                                                                                                  | 13-SDY-0294 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-10 | N/A                                                                                                | PSD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | 1/4" NPT          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 216                                                                                                                                                                                                                                                                                                                                  | 13-ZSL-0294 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-10 | N/A                                                                                                | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A               | SS 316                             | *                    | *   | -             | A             | -            |           |                |
| 217                                                                                                                                                                                                                                                                                                                                  | 13-ZSH-0294 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-10 | N/A                                                                                                | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A               | SS 316                             | *                    | *   | -             | A             | -            |           |                |
| 218                                                                                                                                                                                                                                                                                                                                  | 13-SDV-0300 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-10 | 4"-PT-13-0110-FC01                                                                                 | N/A    | N/A                    | 350      | 108               | 10-90  | 27-50    | MPC-2                     | 4"/2500# RTJ      | Body: carbon steel<br>Trim : SS316 | *                    | *   | -             | A             | -            |           |                |
| 219                                                                                                                                                                                                                                                                                                                                  | 13-SDY-0300 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-10 | N/A                                                                                                | PSD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | 1/4" NPT          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 220                                                                                                                                                                                                                                                                                                                                  | 13-ZSL-0300 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-10 | N/A                                                                                                | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A               | SS 316                             | *                    | *   | -             | A             | -            |           |                |
| 221                                                                                                                                                                                                                                                                                                                                  | 13-ZSH-0300 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-10 | N/A                                                                                                | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A               | SS 316                             | *                    | *   | -             | A             | -            |           |                |
| 222                                                                                                                                                                                                                                                                                                                                  | 13-SDV-0314 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-10 | 4"-PT-13-0111-FC01                                                                                 | N/A    | N/A                    | 350      | 108               | 10-90  | 27-50    | MPC-2                     | 4"/2500# RTJ      | Body: carbon steel<br>Trim : SS316 | *                    | *   | -             | A             | -            |           |                |
| 223                                                                                                                                                                                                                                                                                                                                  | 13-SDY-0314 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-10 | N/A                                                                                                | PSD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | 1/4" NPT          | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 224                                                                                                                                                                                                                                                                                                                                  | 13-ZSL-0314 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-10 | N/A                                                                                                | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A               | SS 316                             | *                    | *   | -             | A             | -            |           |                |
| 225                                                                                                                                                                                                                                                                                                                                  | 13-ZSH-0314 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-10 | N/A                                                                                                | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A               | SS 316                             | *                    | *   | -             | A             | -            |           |                |
| 226                                                                                                                                                                                                                                                                                                                                  | 13-PI-0126  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-10 | 4"-PT-13-0109-FC01                                                                                 | N/A    | N/A                    | 350      | 108               | 5-10   | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 227                                                                                                                                                                                                                                                                                                                                  | 13-PI-0131  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-10 | 4"-PT-13-0110-FC01                                                                                 | N/A    | N/A                    | 350      | 108               | 5-10   | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 228                                                                                                                                                                                                                                                                                                                                  | 13-PI-0136  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-10 | 4"-PT-13-0111-FC01                                                                                 | N/A    | N/A                    | 350      | 108               | 5-10   | 27-50    | MPC-2                     | 2"/2500# RTJ      | SS316                              | *                    | *   | -             | A             | -            |           |                |
| 229                                                                                                                                                                                                                                                                                                                                  | 13-PT-0127  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-10 | 4"-PT-13-0109-FC01                                                                                 | PSD    | AI                     | 350      | 108               | 5-10   | 27-50    | MPC-2                     | 2"/2500#          |                                    |                      |     |               |               |              |           |                |

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|                                                                                                                                                                                                                                                             |             |                                          |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |         |               |                                    |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                                                             |             |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                    |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                                                        | Tag No      | INSTRUMENT DESCRIPTION                   | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 245                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-10 | LP WELL -1                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 246                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-10 | LP WELL -1                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 247                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-10 | LP WELL -2                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 248                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-10 | LP WELL -2                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 249                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-10 | LP WELL -2                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 250                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-10 | LP WELL -3                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 251                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-10 | LP WELL -3                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 252                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-10 | LP WELL -3                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 253                                                                                                                                                                                                                                                         | 42-FI-8032  | ROTAMETER                                | 17039-ND-P-DW-0202-11 | 1/2"-CV-42-7787-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 254                                                                                                                                                                                                                                                         | 42-FI-8033  | ROTAMETER                                | 17039-ND-P-DW-0202-11 | 1/2"-CV-42-7778-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 255                                                                                                                                                                                                                                                         | 42-FI-8034  | ROTAMETER                                | 17039-ND-P-DW-0202-11 | 1/2"-CV-42-7789-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 256                                                                                                                                                                                                                                                         | 13-SDV-0327 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-11 | 4"-PT-13-0118-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 257                                                                                                                                                                                                                                                         | 13-SDY-0327 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-11 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 258                                                                                                                                                                                                                                                         | 13-ZSL-0327 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-11 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 259                                                                                                                                                                                                                                                         | 13-ZSH-0327 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-11 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 260                                                                                                                                                                                                                                                         | 13-SDV-0336 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-11 | 4"-PT-13-0119-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 261                                                                                                                                                                                                                                                         | 13-SDY-0336 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-11 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 262                                                                                                                                                                                                                                                         | 13-ZSL-0336 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-11 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 263                                                                                                                                                                                                                                                         | 13-ZSH-0336 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-11 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 264                                                                                                                                                                                                                                                         | 13-SDV-0347 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-11 | 4"-PT-13-0120-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 265                                                                                                                                                                                                                                                         | 13-SDY-0347 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-11 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 266                                                                                                                                                                                                                                                         | 13-ZSL-0347 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-11 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 267                                                                                                                                                                                                                                                         | 13-ZSH-0347 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-11 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 268                                                                                                                                                                                                                                                         | 13-PI-0141  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-11 | 4"-PT-13-0118-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 269                                                                                                                                                                                                                                                         | 13-PI-0146  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-11 | 4"-PT-13-0119-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 270                                                                                                                                                                                                                                                         | 13-PI-0151  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-11 | 4"-PT-13-0120-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 271                                                                                                                                                                                                                                                         | 13-PT-0127  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-11 | 4"-PT-13-0118-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 272                                                                                                                                                                                                                                                         | 13-PT-0147  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-11 | 4"-PT-13-0119-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 273                                                                                                                                                                                                                                                         | 13-PT-0152  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-11 | 4"-PT-13-0120-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 274                                                                                                                                                                                                                                                         | 13-TI-0143  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-11 | 4"-PT-13-0118-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 275                                                                                                                                                                                                                                                         | 13-TW-0143  | THERMOWELL                               | 17039-ND-P-DW-0202-11 | 4"-PT-13-0118-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 276                                                                                                                                                                                                                                                         | 13-TW-0148  | THERMOWELL                               | 17039-ND-P-DW-0202-11 | 4"-PT-13-0119-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 277                                                                                                                                                                                                                                                         | 13-TI-0148  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-11 | 4"-PT-13-0119-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 278                                                                                                                                                                                                                                                         | 13-TW-0153  | THERMOWELL                               | 17039-ND-P-DW-0202-11 | 4"-PT-13-0120-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 279                                                                                                                                                                                                                                                         | 13-TI-0153  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-11 | 4"-PT-13-0120-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 280                                                                                                                                                                                                                                                         | 13-TT-0144  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-11 | 4"-PT-13-0118-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 281                                                                                                                                                                                                                                                         | 13-TW-0144  | THERMOWELL                               | 17039-ND-P-DW-0202-11 | 4"-PT-13-0118-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 282                                                                                                                                                                                                                                                         | 13-TW-0149  | THERMOWELL                               | 17039-ND-P-DW-0202-11 | 4"-PT-13-0119-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 283                                                                                                                                                                                                                                                         | 13-TT-0149  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-11 | 4"-PT-13-0119-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 284                                                                                                                                                                                                                                                         | 13-TW-0154  | THERMOWELL                               | 17039-ND-P-DW-0202-11 | 4"-PT-13-0120-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 285                                                                                                                                                                                                                                                         | 13-TT-0154  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-11 | 4"-PT-13-0120-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 286                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 | LP WELL -4                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 287                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 | LP WELL -4                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 288                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 | LP WELL -4                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 289                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 | LP WELL -5                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 290                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 | LP WELL -5                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 291                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 | LP WELL -5                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 292                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 | LP WELL -6                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 293                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 | LP WELL -6                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 294                                                                                                                                                                                                                                                         | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-11 |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                    |              |           |                |      |        |

| <div><div><div>KAVIN™</div></div><div><div>अभियान इंजिनियरिंग लिमिटेड<br/>Oil India Limited</div></div></div> <div></div> <th colspan="11">CLIENT : OIL INDIA LIMITED</th> <th colspan="1">DOC NO. :</th> <th colspan="3" rowspan="2"></th> |             |                                          |                       | CLIENT : OIL INDIA LIMITED                                                                        |        |          |                           |                   |                              |                      |         |               |                                    |              | DOC NO. : |                |      |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|---------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                          |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |         |               |                                    |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                    |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                                                                                                                                                                                                       | Tag No      | INSTRUMENT DESCRIPTION                   | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 306                                                                                                                                                                                                                                                                                                                                                                                                        | 13-SDV-0382 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-12 | 4"-PT-13-0133-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 307                                                                                                                                                                                                                                                                                                                                                                                                        | 13-SDY-0382 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-12 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 308                                                                                                                                                                                                                                                                                                                                                                                                        | 13-ZSH-0382 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-12 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 309                                                                                                                                                                                                                                                                                                                                                                                                        | 13-ZSH-0382 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-12 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 310                                                                                                                                                                                                                                                                                                                                                                                                        | 13-PI-0156  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-12 | 4"-PT-13-0127-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 311                                                                                                                                                                                                                                                                                                                                                                                                        | 13-PI-0162  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-12 | 4"-PT-13-0128-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 312                                                                                                                                                                                                                                                                                                                                                                                                        | 13-PI-0166  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-12 | 4"-PT-13-0133-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 313                                                                                                                                                                                                                                                                                                                                                                                                        | 13-PT-0157  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-12 | 4"-PT-13-0127-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 314                                                                                                                                                                                                                                                                                                                                                                                                        | 13-PT-0163  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-12 | 4"-PT-13-0128-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 315                                                                                                                                                                                                                                                                                                                                                                                                        | 13-PT-0167  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-12 | 4"-PT-13-0133-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 316                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TI-0158  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-12 | 4"-PT-13-0127-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 317                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TW-0158  | THERMOWELL                               | 17039-ND-P-DW-0202-12 | 4"-PT-13-0127-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 318                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TW-0164  | THERMOWELL                               | 17039-ND-P-DW-0202-12 | 4"-PT-13-0128-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 319                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TI-0164  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-12 | 4"-PT-13-0128-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 320                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TW-0168  | THERMOWELL                               | 17039-ND-P-DW-0202-12 | 4"-PT-13-0133-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 321                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TI-0168  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-12 | 4"-PT-13-0133-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 322                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TT-0159  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-12 | 4"-PT-13-0127-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 323                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TW-0159  | THERMOWELL                               | 17039-ND-P-DW-0202-12 | 4"-PT-13-0127-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 324                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TW-0165  | THERMOWELL                               | 17039-ND-P-DW-0202-12 | 4"-PT-13-0128-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 325                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TT-0165  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-12 | 4"-PT-13-0128-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 326                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TW-0169  | THERMOWELL                               | 17039-ND-P-DW-0202-12 | 4"-PT-13-0133-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |
| 327                                                                                                                                                                                                                                                                                                                                                                                                        | 13-TT-0169  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-12 | 4"-PT-13-0133-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 328                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -7                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 329                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -7                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 330                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -7                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 331                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -8                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 332                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -8                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 333                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -8                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 334                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -9                                                                                        | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 335                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -9                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 336                                                                                                                                                                                                                                                                                                                                                                                                        | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-12 | LP WELL -9                                                                                        | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 337                                                                                                                                                                                                                                                                                                                                                                                                        | 42-FI-8039  | ROTAMETER                                | 17039-ND-P-DW-0202-13 | 1/2"-CV-42-7787-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 338                                                                                                                                                                                                                                                                                                                                                                                                        | 42-FI-8040  | ROTAMETER                                | 17039-ND-P-DW-0202-13 | 1/2"-CV-42-7778-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 339                                                                                                                                                                                                                                                                                                                                                                                                        | 42-FI-8041  | ROTAMETER                                | 17039-ND-P-DW-0202-13 | 1/2"-CV-42-7789-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 340                                                                                                                                                                                                                                                                                                                                                                                                        | 13-SDV-0395 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-13 | 4"-PT-13-0134-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 341                                                                                                                                                                                                                                                                                                                                                                                                        | 13-SDY-0395 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-13 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 342                                                                                                                                                                                                                                                                                                                                                                                                        | 13-ZSL-0395 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 343                                                                                                                                                                                                                                                                                                                                                                                                        | 13-ZSH-0395 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 344                                                                                                                                                                                                                                                                                                                                                                                                        | 13-SDV-0950 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-13 | 4"-PT-13-0961-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 345                                                                                                                                                                                                                                                                                                                                                                                                        | 13-SDY-0950 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-13 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 346                                                                                                                                                                                                                                                                                                                                                                                                        | 13-ZSL-0950 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 347                                                                                                                                                                                                                                                                                                                                                                                                        | 13-ZSH-0950 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 348                                                                                                                                                                                                                                                                                                                                                                                                        | 13-SDV-0956 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-13 | 4"-PT-13-0965-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 349                                                                                                                                                                                                                                                                                                                                                                                                        | 13-SDY-0956 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-13 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 350                                                                                                                                                                                                                                                                                                                                                                                                        | 13-ZSL-0956 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 351                                                                                                                                                                                                                                                                                                                                                                                                        | 13-ZSH-0956 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 352                                                                                                                                                                                                                                                                                                                                                                                                        | 13-PI-0171  | PRESSURE INDICATOR                       | 17039-ND-P-DW-0202-13 | 4"-PT-13-0134-FC01                                                                                | N/A    | N/A      |                           |                   |                              |                      |         |               |                                    |              |           |                |      |        |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|---------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                |             |                                          |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |         |               |                                    |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                                                                                |             |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                    |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                                                                                           | Tag No      | INSTRUMENT DESCRIPTION                   | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 367                                                                                                                                                                                                                                                            | 13-TT-0954  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-13 | 4"-PT-13-0961-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 368                                                                                                                                                                                                                                                            | 13-TW-0960  | THERMOWELL                               | 17039-ND-P-DW-0202-13 | 4"-PT-13-0965-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 369                                                                                                                                                                                                                                                            | 13-TT-0960  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-13 | 4"-PT-13-0965-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 370                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -10                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 371                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -10                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 372                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -10                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 373                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -11                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 374                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -11                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 375                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -11                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 376                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -12                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 377                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -12                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 378                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-13 | LP WELL -12                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 379                                                                                                                                                                                                                                                            | 42-FI-8042  | ROTAMETER                                | 17039-ND-P-DW-0202-14 | 1/2"-CV-42-7787-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 380                                                                                                                                                                                                                                                            | 42-FI-8043  | ROTAMETER                                | 17039-ND-P-DW-0202-14 | 1/2"-CV-42-7778-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 381                                                                                                                                                                                                                                                            | 42-FI-8044  | ROTAMETER                                | 17039-ND-P-DW-0202-14 | 1/2"-CV-42-7789-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2   | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 382                                                                                                                                                                                                                                                            | 13-SDV-0962 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-14 | 4"-PT-13-0969-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 383                                                                                                                                                                                                                                                            | 13-SDY-0962 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-14 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 384                                                                                                                                                                                                                                                            | 13-ZSL-0962 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 385                                                                                                                                                                                                                                                            | 13-ZSH-0962 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 386                                                                                                                                                                                                                                                            | 13-SDV-0968 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-14 | 4"-PT-13-0970-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 387                                                                                                                                                                                                                                                            | 13-SDY-0968 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-14 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 388                                                                                                                                                                                                                                                            | 13-ZSL-0968 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 389                                                                                                                                                                                                                                                            | 13-ZSH-0968 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 390                                                                                                                                                                                                                                                            | 13-SDV-0974 | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-14 | 4"-PT-13-0971-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2   | 4"/2500# RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 391                                                                                                                                                                                                                                                            | 13-SDY-0974 | SOLENOID VALVE                           | 17039-ND-P-DW-0202-14 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |  |
| 392                                                                                                                                                                                                                                                            | 13-ZSL-0974 | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 393                                                                                                                                                                                                                                                            | 13-ZSH-0974 | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                             | *            | *         | -              | A    | -      |  |
| 394                                                                                                                                                                                                                                                            | 13-PI-0963  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-14 | 4"-PT-13-0969-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 395                                                                                                                                                                                                                                                            | 13-PI-0969  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-14 | 4"-PT-13-0970-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 396                                                                                                                                                                                                                                                            | 13-PI-0975  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-14 | 4"-PT-13-0971-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 397                                                                                                                                                                                                                                                            | 13-PT-0964  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-14 | 4"-PT-13-0969-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 398                                                                                                                                                                                                                                                            | 13-PT-0970  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-14 | 4"-PT-13-0970-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 399                                                                                                                                                                                                                                                            | 13-PT-0976  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-14 | 4"-PT-13-0971-FC01                                                                                | PSD    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 400                                                                                                                                                                                                                                                            | 13-TI-0965  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-14 | 4"-PT-13-0969-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 401                                                                                                                                                                                                                                                            | 13-TW-0965  | THERMOWELL                               | 17039-ND-P-DW-0202-14 | 4"-PT-13-0969-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 402                                                                                                                                                                                                                                                            | 13-TW-0971  | THERMOWELL                               | 17039-ND-P-DW-0202-14 | 4"-PT-13-0970-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 403                                                                                                                                                                                                                                                            | 13-TI-0971  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-14 | 4"-PT-13-0970-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 404                                                                                                                                                                                                                                                            | 13-TW-0977  | THERMOWELL                               | 17039-ND-P-DW-0202-14 | 4"-PT-13-0971-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 405                                                                                                                                                                                                                                                            | 13-TI-0977  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-14 | 4"-PT-13-0971-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 406                                                                                                                                                                                                                                                            | 13-TT-0966  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-14 | 4"-PT-13-0969-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 407                                                                                                                                                                                                                                                            | 13-TW-0966  | THERMOWELL                               | 17039-ND-P-DW-0202-14 | 4"-PT-13-0969-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 408                                                                                                                                                                                                                                                            | 13-TW-0972  | THERMOWELL                               | 17039-ND-P-DW-0202-14 | 4"-PT-13-0970-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 409                                                                                                                                                                                                                                                            | 13-TT-0972  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-14 | 4"-PT-13-0970-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 410                                                                                                                                                                                                                                                            | 13-TW-0978  | THERMOWELL                               | 17039-ND-P-DW-0202-14 | 4"-PT-13-0971-FC01                                                                                | N/A    | N/A      | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 2"/2500# RTJ  | SS316                              | *            | *         | -              | A    | -      |  |
| 411                                                                                                                                                                                                                                                            | 13-TT-0978  | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-14 | 4"-PT-13-0971-FC01                                                                                | PSD    | AI       | 350                       | 100               | 5-10                         | 27-50                | MPC-2   | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 412                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-14 | LP WELL -13                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 413                                                                                                                                                                                                                                                            | -           | WELL HEAD END I/O'S                      | 17039-ND-P-DW-0202-14 | LP WELL -13                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 414                                                                                                                                                                                                                                                            |             |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                    |              |           |                |      |        |  |

| <div><div></div><div></div></div> |              |                                          |                       | CLIENT : OIL INDIA LIMITED                                                                        |        |          |                           |                   |                              |                      |       |                              |                                    |              | DOC NO. : |                |      |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|------------------------------|------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                  |              |                                          |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                              |                                    |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                  |              |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                              |                                    |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                             | Tag No       | INSTRUMENT DESCRIPTION                   | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING                | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 428                                                                                                                                                                                              | 13-PSV-0227B | PRESSURE SAFETY VALVE                    | 17039-ND-P-DW-0202-15 | 4"-PT-13-0222-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2 | 3"/2500#RTJ L 4"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 429                                                                                                                                                                                              | 13-BDV-0228  | BLOWDOWN VALVE                           | 17039-ND-P-DW-0202-15 | 2"-PT-13-0190-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2 | 2"/2500#RTJ                  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 430                                                                                                                                                                                              | 13-BXV-0228  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-15 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                     | SS316                              | *            | *         | -              | A    | -      |
| 431                                                                                                                                                                                              | 13-ZIL-0228  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-15 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 432                                                                                                                                                                                              | 13-ZIH-0228  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-15 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 433                                                                                                                                                                                              | 13-SXY-0109  | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-15 | 10"-PT-13-0192-FC01                                                                               | N/A    | N/A      | 350                       | 108               | 10-90                        | 27-50                | MPC-2 | 10"/2500#RTJ                 | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 434                                                                                                                                                                                              | 13-SDY-0109  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-15 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                     | SS316                              | *            | *         | -              | A    | -      |
| 435                                                                                                                                                                                              | 13-ZIL-0109  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-15 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 436                                                                                                                                                                                              | 13-ZIH-0109  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-15 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 437                                                                                                                                                                                              | 13-TT-0227   | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-18 | 3"-PT-13-0157-FC01                                                                                | DCS    | AI       | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 1/2" NPTM                    | SS316                              | *            | *         | -              | A    | -      |
| 438                                                                                                                                                                                              | 13-TW-0227   | THERMOWELL                               | 17039-ND-P-DW-0202-18 | 3"-PT-13-0157-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 1 1/2"/2500#RTJ              | SS316                              | *            | *         | -              | A    | -      |
| 439                                                                                                                                                                                              | 13-TT-0226   | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-18 | 8"-PT-13-0184-FC01                                                                                | DCS    | AI       | 350                       | 108               | 5-10                         | 27-50                | MPC-2 | 1/2" NPTM                    | SS316                              | *            | *         | -              | A    | -      |
| 440                                                                                                                                                                                              | 13-TW-0226   | THERMOWELL                               | 17039-ND-P-DW-0202-18 | 8"-PT-13-0184-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2 | 1 1/2"/2500#RTJ              | SS316                              | *            | *         | -              | A    | -      |
| 441                                                                                                                                                                                              | 13-PI-0202   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-18 | 3"-PT-13-0157-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 2"/2500#RTJ                  | SS316                              | *            | *         | -              | A    | -      |
| 442                                                                                                                                                                                              | 13-PI-0199   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL   | 17039-ND-P-DW-0202-18 | 8"-PT-13-0184-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2 | 2"/2500#RTJ                  | SS316                              | *            | *         | -              | A    | -      |
| 443                                                                                                                                                                                              | 13-TI-0203   | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-18 | 3"-PT-13-0157-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 1/2"NPTM                     | SS316                              | *            | *         | -              | A    | -      |
| 444                                                                                                                                                                                              | 13-TW-0203   | THERMOWELL                               | 17039-ND-P-DW-0202-18 | 3"-PT-13-0157-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2 | 1 1/2"/2500#RTJ              | SS316                              | *            | *         | -              | A    | -      |
| 445                                                                                                                                                                                              | 13-TI-0207   | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-18 | 8"-PT-13-0184-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2 | 1/2"NPTM                     | SS316                              | *            | *         | -              | A    | -      |
| 446                                                                                                                                                                                              | 13-TW-0203   | THERMOWELL                               | 17039-ND-P-DW-0202-18 | 8"-PT-13-0184-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2 | 1 1/2"/2500#RTJ              | SS316                              | *            | *         | -              | A    | -      |
| 447                                                                                                                                                                                              | 13-RO-0235   | RESTRICTION ORIFICE                      | 17039-ND-P-DW-0202-18 | 2"-PT-13-0185-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-10                         | 27-50                | MPC-2 | 2"/2500#RTJ                  | SS316                              | *            | *         | -              | A    | -      |
| 448                                                                                                                                                                                              | 13-RO-0238   | RESTRICTION ORIFICE                      | 17039-ND-P-DW-0202-18 | 2"-PT-13-0227-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 2"/2500#RTJ                  | SS316                              | *            | *         | -              | A    | -      |
| 449                                                                                                                                                                                              | 13-PSV-0233A | PRESSURE SAFETY VALVE                    | 17039-ND-P-DW-0202-18 | 3"-PT-13-0223-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 1 1/2"/2500#RTJ F 3"/300#RF  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 450                                                                                                                                                                                              | 13-PSV-0233B | PRESSURE SAFETY VALVE                    | 17039-ND-P-DW-0202-18 | 3"-PT-13-0224-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 1 1/2"/2500#RTJ FM 3"/300#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 451                                                                                                                                                                                              | 13-PSV-0237A | PRESSURE SAFETY VALVE                    | 17039-ND-P-DW-0202-18 | 3"-PT-13-0225-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 1 1/2"/2500#RTJ E 2"/300#RF  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 452                                                                                                                                                                                              | 13-PSV-0237B | PRESSURE SAFETY VALVE                    | 17039-ND-P-DW-0202-18 | 3"-PT-13-0226-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 1 1/2"/2500#RTJ E 2"/300#RF  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 453                                                                                                                                                                                              | 13-BDV-0234  | BLOWDOWN VALVE                           | 17039-ND-P-DW-0202-18 | 2"-PT-13-0185-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 2"/2500# RTJ                 | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 454                                                                                                                                                                                              | 13-BXV-0234  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-18 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 |                              | SS316                              | *            | *         | -              | A    | -      |
| 455                                                                                                                                                                                              | 13-ZIL-0234  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-18 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 456                                                                                                                                                                                              | 13-ZIH-0234  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-18 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 457                                                                                                                                                                                              | 13-BDV-0236  | BLOWDOWN VALVE                           | 17039-ND-P-DW-0202-18 | 2"-PT-13-0227-FC01                                                                                | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 2"/2500# RTJ                 | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 458                                                                                                                                                                                              | 13-BXV-0236  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-18 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                     | SS316                              | *            | *         | -              | A    | -      |
| 459                                                                                                                                                                                              | 13-ZIL-0236  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-18 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 460                                                                                                                                                                                              | 13-ZIH-0236  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-18 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 461                                                                                                                                                                                              | 13-SDV-1970  | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-18 | 12"-PT-13-0182A-FC01                                                                              | N/A    | N/A      | 350                       | 108               | 5-90                         | 27-50                | MPC-2 | 12"/2500# RTJ                | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 462                                                                                                                                                                                              | 13-SXV-1970  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-18 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                     | SS316                              | *            | *         | -              | A    | -      |
| 463                                                                                                                                                                                              | 13-ZIL-1970  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-18 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 464                                                                                                                                                                                              | 13-ZIH-1970  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-18 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                          | SS 316                             | *            | *         | -              | A    | -      |
| 465                                                                                                                                                                                              | 13-PT-0212   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-19 | ND-MBD-1110                                                                                       | PSD    | AI       | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 2"/150#RF                    | SS316                              | *            | *         | -              | A    | -      |
| 466                                                                                                                                                                                              | 13-PT-0209   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-19 | ND-MBD-1110                                                                                       | DCS    | AI       | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 2"/150#RF                    | SS316                              | *            | *         | -              | A    | -      |
| 467                                                                                                                                                                                              | 13-PT-8051   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-19 | 2"-PV-13-0201-DC01                                                                                | DCS    | AI       | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 2"/150#RF                    | SS316                              | *            | *         | -              | A    | -      |
| 468                                                                                                                                                                                              | 13-PI-0213   | PRESSURE INDICATOR                       | 17039-ND-P-DW-0202-19 | ND-MBD-1110                                                                                       | N/A    | N/A      | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 1/2" NPTM                    | SS316                              | *            | *         | -              | A    | -      |
| 469                                                                                                                                                                                              | 13-LT-0214   | DISPLACER TYPE LEVEL TRANSMITTER         | 17039-ND-P-DW-0202-19 | ND-MBD-1110                                                                                       | PSD    | AI       | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 2"/150#RF                    | SS316                              | *            | *         | -              | A    | -      |
| 470                                                                                                                                                                                              | 13-TI-0215   | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-19 | ND-MBD-1110                                                                                       | N/A    | N/A      | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 1/2"NPTM                     | SS316                              | *            | *         | -              | A    | -      |
| 471                                                                                                                                                                                              | 13-TW-0215   | THERMOWELL                               |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                              |                                    |              |           |                |      |        |

| <div><div></div><div></div></div> |              |                                          |                       | CLIENT : OIL INDIA LIMITED                                                                        |        |          |                           |                   |                              |                      |       |                         |                                    |              |           | DOC NO. :      |      |        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|-------------------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                  |              |                                          |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                         |                                    |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                  |              |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                         |                                    |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                             | Tag No       | INSTRUMENT DESCRIPTION                   | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING           | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 489                                                                                                                                                                                              | 13-SDV-0206  | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-19 | 4"-PT-13-0196-FC01                                                                                | N/A    | N/A      | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 4" /2500# RTJ           | SS316                              | *            | *         | -              | A    | -      |  |
| 490                                                                                                                                                                                              | 13-ZSL-0206  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-19 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 491                                                                                                                                                                                              | 13-ZSH-0206  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-19 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 492                                                                                                                                                                                              | 13-SDY-0206  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-19 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                | SS316                              | *            | *         | -              | A    | -      |  |
| 493                                                                                                                                                                                              | 13-SDV-0219  | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-19 | 6"-PL-13-0204-DC01                                                                                | N/A    | N/A      | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 2"/ 900# RTJ            | SS316                              | *            | *         | -              | A    | -      |  |
| 494                                                                                                                                                                                              | 13-ZSL-0219  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-19 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 495                                                                                                                                                                                              | 13-ZSH-0219  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-19 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 496                                                                                                                                                                                              | 13-SDY-0219  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-19 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                | SS316                              | *            | *         | -              | A    | -      |  |
| 497                                                                                                                                                                                              | 13-TT-8052   | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-19 | 2"-PV-13-0201-DC01                                                                                | DCS    | AI       | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 1/2"NPTM                | SS316                              | *            | *         | -              | A    | -      |  |
| 498                                                                                                                                                                                              | 13-TW-8052   | THERMOWELL                               | 17039-ND-P-DW-0202-19 | 2"-PV-13-0201-DC01                                                                                | N/A    | N/A      | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 2"/ 900#RF              | SS316                              | *            | *         | -              | A    | -      |  |
| 499                                                                                                                                                                                              | 13-PT-0212   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0202-19 | 3"-PV-13-0203B-AC01                                                                               | DCS    | AI       | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 2"/150#RF               | SS316                              | *            | *         | -              | A    | -      |  |
| 500                                                                                                                                                                                              | 41-SDV-1172  | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-19 | 3"-PV-13-0203B-AC01                                                                               | N/A    | N/A      | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 3" / 2500#RTJ           | SS316                              | *            | *         | -              | A    | -      |  |
| 501                                                                                                                                                                                              | 41-ZSL-1172  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-19 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 502                                                                                                                                                                                              | 41-ZSH-1172  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-19 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 503                                                                                                                                                                                              | 41-SDY-1172  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-19 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                | SS 316                             | *            | *         | -              | A    | -      |  |
| 504                                                                                                                                                                                              | 41-SDV-1171  | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-19 | 3"-PV-13-0203-AC01                                                                                | N/A    | N/A      | 100/FV                    | 108               | 5-90                         | 27-50                | MPC-2 | 3" / 2500#RTJ           | SS316                              | *            | *         | -              | A    | -      |  |
| 505                                                                                                                                                                                              | 41-ZSL-1171  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-19 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 506                                                                                                                                                                                              | 41-ZSH-1171  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-19 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 507                                                                                                                                                                                              | 41-SDY-1171  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-19 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                | SS 316                             | *            | *         | -              | A    | -      |  |
| 508                                                                                                                                                                                              | 41-SDV-3750  | SHUTDOWN VALVE                           | 17039-ND-P-DW-0202-20 | 2"-HM-41-3762-BC01-HC                                                                             | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 2"/300# RF              | SS316                              | *            | *         | -              | A    | -      |  |
| 509                                                                                                                                                                                              | 41-ZSL-3750  | LIMIT SWITCH LOW                         | 17039-ND-P-DW-0202-20 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 510                                                                                                                                                                                              | 41-ZSH-3750  | LIMIT SWITCH HIGH                        | 17039-ND-P-DW-0202-20 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | SS 316                             | *            | *         | -              | A    | -      |  |
| 511                                                                                                                                                                                              | 41-SDY-3750  | SOLENOID VALVE                           | 17039-ND-P-DW-0202-20 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | 1/4" NPT                | SS316                              | *            | *         | -              | A    | -      |  |
| 512                                                                                                                                                                                              | 20-PSV-1380A | PRESSURE SAFETY VALVE                    | 17039-ND-P-DW-0202-20 | 2"-HM-41-3753-BC01                                                                                | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 1 " /300#RF D 2"/150#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 513                                                                                                                                                                                              | 20-PSV-1380B | PRESSURE SAFETY VALVE                    | 17039-ND-P-DW-0202-20 | 2"-HM-41-3753A-BC01                                                                               | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 1 " /300#RF D 2"/150#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 514                                                                                                                                                                                              | 41-TV-3751   | TEMPERATURE CONTROL VALVE                | 17039-ND-P-DW-0202-20 | 2"-HM-41-3752-BC01-HC-1N                                                                          | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 1"/300#RF               | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 515                                                                                                                                                                                              | 41-TY-3751   | POSITIONER                               | 17039-ND-P-DW-0202-20 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | SS316                              | *            | *         | -              | A    | -      |  |
| 516                                                                                                                                                                                              | 41-TT-3751   | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | DCS    | AI       | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 1/2"NPTM                | SS316                              | *            | *         | -              | A    | -      |  |
| 517                                                                                                                                                                                              | 41-TW-3751   | THERMOWELL                               | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 2"/150# RF              | SS316                              | *            | *         | -              | A    | -      |  |
| 518                                                                                                                                                                                              | 20-TT-1387A  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | PSD    | AI       | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 1/2" NPTF               | SS316                              | *            | *         | -              | A    | -      |  |
| 519                                                                                                                                                                                              | 20-TW-1387A  | THERMOWELL                               | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 2"/150# RF              | SS316                              | *            | *         | -              | A    | -      |  |
| 520                                                                                                                                                                                              | 20-TT-1387B  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | PSD    | AI       | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 1/2" NPTF               | SS316                              | *            | *         | -              | A    | -      |  |
| 521                                                                                                                                                                                              | 20-TW-1387B  | THERMOWELL                               | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 2"/150# RF              | SS316                              | *            | *         | -              | A    | -      |  |
| 522                                                                                                                                                                                              | 20-TT-1387C  | TEMPERATURE TRANSMITTER                  | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | PSD    | AI       | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 1/2" NPTF               | SS316                              | *            | *         | -              | A    | -      |  |
| 523                                                                                                                                                                                              | 20-TW-1387C  | THERMOWELL                               | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 2"/150# RF              | SS316                              | *            | *         | -              | A    | -      |  |
| 524                                                                                                                                                                                              | 20-TI-1388   | TEMPERATURE INDICATOR                    | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 1/2"NPTM                | SS316                              | *            | *         | -              | A    | -      |  |
| 525                                                                                                                                                                                              | 20-TW-1388   | THERMOWELL                               | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | N/A    | N/A      | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 2"/150# RF              | SS316                              | *            | *         | -              | A    | -      |  |
| 526                                                                                                                                                                                              | 20-ILT-1383  | RADAR TYPE LEVEL TRANSMITTER             | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | DCS    | AI       | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 2"/150# RF              | SS 316                             | *            | *         | -              | A    | -      |  |
| 527                                                                                                                                                                                              | 20-LIT-1382  | RADAR TYPE LEVEL TRANSMITTER             | 17039-ND-P-DW-0202-20 | ND-BBJ-1111                                                                                       | PSD    | AI       | FOW+0.07                  | 108               | ATM                          | 27-50                | CSC-3 | 2"/150# RF              | SS 316                             | *            | *         | -              | A    | -      |  |
| 528                                                                                                                                                                                              | 20-MOV-1381  | MOTOR OPERATED VALVE                     | 17039-ND-P-DW-0202-20 | 4"-PL-44-1380-AC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 57                   | CSC-3 | 8"/150# RF              | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 529                                                                                                                                                                                              | 20-ZSL-1381  | OPEN FEEDBACK                            | 17039-ND-P-DW-0202-20 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | N/A                                | *            | *         | -              | A    | -      |  |
| 530                                                                                                                                                                                              | 20-ZSH-1381  | CLOSE FEEDBACK                           | 17039-ND-P-DW-0202-20 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | N/A                                | *            | *         | -              | A    | -      |  |
| 531                                                                                                                                                                                              | 20-SSR-1381  | REMOTE / LOCAL FEEDBACK                  | 17039-ND-P-DW-0202-20 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | N/A                                | *            | *         | -              | A    | -      |  |
| 532                                                                                                                                                                                              | 20-STR-1381  | OPEN COMMAND                             | 17039-ND-P-DW-0202-20 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | N/A                                | *            | *         | -              | A    | -      |  |
| 533                                                                                                                                                                                              | 20-STP-1381  | CLOSE COMMAND                            | 17039-ND-P-DW-0202-20 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | N/A                                | *            | *         | -              | A    | -      |  |
| 534                                                                                                                                                                                              | 20-XLT-1381  | TRIP                                     | 17039-ND-P-DW-0202-20 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | N/A                                | *            | *         | -              | A    | -      |  |
| 535                                                                                                                                                                                              | 20-MOV-1381A | MOTOR OPERATED VALVE                     | 17039-ND-P-DW-0202-20 | 2"-PT-13-0205-FC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 57                   | CSC-3 | 2"/2500#RTJ             | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 536                                                                                                                                                                                              | 20-ZSL-1381A | OPEN FEEDBACK                            | 17039-ND-P-DW-0202-20 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | N/A                                | *            | *         | -              | A    | -      |  |
| 537                                                                                                                                                                                              | 20-ZSH-1381A | CLOSE FEEDBACK                           | 17039-ND-P-DW-0202-20 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A                     | N/A                                | *            | *         | -              | A    | -      |  |
| 53                                                                                                                                                                                               |              |                                          |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                         |                                    |              |           |                |      |        |  |

| <div><div></div><div></div></div> |              |                                                       |                       | CLIENT : OIL INDIA LIMITED                                                                        |        |          |                           |                   |                              |                      |       |                   |                                    |              |           | DOC NO. :      |      |        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|-------------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                  |              |                                                       |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                   |                                    |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                  |              |                                                       |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                   |                                    |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                             | Tag No       | INSTRUMENT DESCRIPTION                                | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING     | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 550                                                                                                                                                                                              | 20-FV-1391   | FLOW CONTROL VALVE                                    | 17039-ND-P-DW-0202-21 | 2"-PL-20-0882-BC01                                                                                | N/A    | N/A      | 15                        | 108               | 10                           | 55                   | MPC-2 | 1"/300#RF         | BODY:CARBONSTEEL / TRIM : SS316    | *            | *         | -              | A    | -      |  |
| 551                                                                                                                                                                                              | 20-FY-1391   | POSITIONER                                            | 17039-ND-P-DW-0202-21 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | SS316                              | *            | *         | -              | A    | -      |  |
| 552                                                                                                                                                                                              | 20-FT-1391   | CORIOLIS TYPE FLOW TRANSMITTER                        | 17039-ND-P-DW-0202-21 | 3"-PL-20-1381-BC01                                                                                | DCS    | AI       | 15                        | 108               | 10                           | 55                   | MPC-2 | 3"/300#RF         | SS 316                             | *            | *         | -              | A    | -      |  |
| 553                                                                                                                                                                                              | 20-PT-1390A  | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0202-21 | OUTLET OF ND-PBA-1112A                                                                            | PSD    | AI       | 15                        | 108               | 10                           | 55                   | MPC-2 | 1/2" NPTF         | SS 316                             | *            | *         | -              | A    | -      |  |
| 554                                                                                                                                                                                              | 20-PT-1390B  | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0202-21 | OUTLET OF ND-PBA-1112B                                                                            | PSD    | AI       | 15                        | 108               | 10                           | 55                   | MPC-2 | 1/2" NPTF         | SS 316                             | *            | *         | -              | A    | -      |  |
| 555                                                                                                                                                                                              | 20-PI-1389A  | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0202-21 | OUTLET OF ND-PBA-1112A                                                                            | N/A    | N/A      | 15                        | 108               | 10                           | 55                   | MPC-2 | 1/2" NPTM         | SS316                              | *            | *         | -              | A    | -      |  |
| 556                                                                                                                                                                                              | 20-PI-1389B  | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0202-21 | OUTLET OF ND-PBA-1112B                                                                            | N/A    | N/A      | 15                        | 108               | 10                           | 55                   | MPC-2 | 1/2" NPTM         | SS316                              | *            | *         | -              | A    | -      |  |
| 557                                                                                                                                                                                              | 20-XC-1553A  | START / STOP                                          | 17039-ND-P-DW-0202-21 | ND-PBA-1112A-ECB                                                                                  | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 558                                                                                                                                                                                              | 20-XI-1553A  | RUNNING                                               | 17039-ND-P-DW-0202-21 | ND-PBA-1112A-ECB                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 559                                                                                                                                                                                              | 20-XA-1553A  | FAULT ALARM                                           | 17039-ND-P-DW-0202-21 | ND-PBA-1112A-ECB                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 560                                                                                                                                                                                              | 20-XE-1553A  | AVAILABLE                                             | 17039-ND-P-DW-0202-21 | ND-PBA-1112A-ECB                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 561                                                                                                                                                                                              | 20-XS-1553A  | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0202-21 | ND-PBA-1112A-ECB                                                                                  | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 562                                                                                                                                                                                              | 20-XXS-1553A | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0202-21 | ND-PBA-1112A-ECB                                                                                  | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 563                                                                                                                                                                                              | 20-XB-1553A  | TRIP FEEDBACK                                         | 17039-ND-P-DW-0202-21 | ND-PBA-1112A-ECB                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 564                                                                                                                                                                                              | 20-XC-1553B  | START / STOP                                          | 17039-ND-P-DW-0202-21 | ND-PBA-1112B-ECB                                                                                  | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 565                                                                                                                                                                                              | 20-XI-1553B  | RUNNING                                               | 17039-ND-P-DW-0202-21 | ND-PBA-1112B-ECB                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 566                                                                                                                                                                                              | 20-XB-1553B  | FAULT ALARM                                           | 17039-ND-P-DW-0202-21 | ND-PBA-1112B-ECB                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 567                                                                                                                                                                                              | 20-XE-1553B  | AVAILABLE                                             | 17039-ND-P-DW-0202-21 | ND-PBA-1112B-ECB                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 568                                                                                                                                                                                              | 20-XS-1553B  | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0202-21 | ND-PBA-1112B-ECB                                                                                  | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 569                                                                                                                                                                                              | 20-XXS-1553B | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0202-21 | ND-PBA-1112B-ECB                                                                                  | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 570                                                                                                                                                                                              | 20-XB-1553B  | TRIP FEEDBACK                                         | 17039-ND-P-DW-0202-21 | ND-PBA-1112A-ECB                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | N/A                                | *            | *         | -              | A    | -      |  |
| 571                                                                                                                                                                                              | 42-FI-3801   | ROTAMETER                                             | 17039-ND-P-DW-0203-01 | 1/2"-CO-42-3817-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/2" NPT          | SS316                              | *            | *         | -              | A    | -      |  |
| 572                                                                                                                                                                                              | 20-ESDV-1000 | SHUTDOWN VALVE                                        | 17039-ND-P-DW-0203-01 | 10"-PT-13-0192-FC01                                                                               | N/A    | N/A      | 100/FV                    | 250               | 10-90                        | 27-50                | MPC-2 | 10" / 2500# RTJ   | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 573                                                                                                                                                                                              | 20-SXV-1000  | SOLENOID VALVE                                        | 17039-ND-P-DW-0203-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT          | SS316                              | *            | *         | -              | A    | -      |  |
| 574                                                                                                                                                                                              | 20-ZSL-1000  | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0203-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | SS316                              | *            | *         | -              | A    | -      |  |
| 575                                                                                                                                                                                              | 20-ZSH-1000  | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0203-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | SS316                              | *            | *         | -              | A    | -      |  |
| 576                                                                                                                                                                                              | 20-PDIT-0436 | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0203-01 | ACROSS ND-HBG-1470                                                                                | DCS    | AI       | 100/FV                    | 250               | 10-90                        | 27-50                | MPC-2 | 2"/2500#RTJ       | SS316                              | *            | *         | -              | A    | -      |  |
| 577                                                                                                                                                                                              | 20-PSV-1034A | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0203-01 | 4"-PT-20-0351-DC01                                                                                | N/A    | N/A      | 100/FV                    | 250               | 10-90                        | 27-50                | MPC-2 | 3" K 6" / 900#RTJ | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 578                                                                                                                                                                                              | 20-PSV-1034B | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0203-01 | 4"-PT-20-0352-DC01                                                                                | N/A    | N/A      | 100/FV                    | 250               | 10-90                        | 27-50                | MPC-2 | 3" K 6" / 900#RTJ | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 579                                                                                                                                                                                              | 20-BDV-1033  | BLOWDOWN VALVE                                        | 17039-ND-P-DW-0203-01 | 2"-PV-20-0353-DC01                                                                                | N/A    | N/A      | 100/FV                    | 250               | 10-90                        | 27-50                | MPC-2 | 2" / 2500# RTJ    | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 580                                                                                                                                                                                              | 20-BXV-1033  | SOLENOID VALVE                                        | 17039-ND-P-DW-0203-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT          | SS 316                             | *            | *         | -              | A    | -      |  |
| 581                                                                                                                                                                                              | 20-ZSL-1033  | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0203-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | SS 316                             | *            | *         | -              | A    | -      |  |
| 582                                                                                                                                                                                              | 20-ZSH-1033  | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0203-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | SS 316                             | *            | *         | -              | A    | -      |  |
| 583                                                                                                                                                                                              | 20-RO-1409   | RESTRICTION ORIFICE                                   | 17039-ND-P-DW-0203-01 | 2"-PV-20-0353-DC01                                                                                | N/A    | N/A      | 100/FV                    | 250               | 10-90                        | 27-50                | MPC-2 | 2"/900#RTJ        | SS316                              | *            | *         | -              | A    | -      |  |
| 584                                                                                                                                                                                              | 20-TW-0401   | THERMOWELL                                            | 17039-ND-P-DW-0203-01 | 10"-PT-13-0192-FC01                                                                               | N/A    | N/A      | 100/FV                    | 250               | 10-90                        | 27-50                | MPC-2 | 1 1/2"/2500#RTJ   | SS316                              | *            | *         | -              | A    | -      |  |
| 585                                                                                                                                                                                              | 20-TI-0401   | TEMPERATURE INDICATOR                                 | 17039-ND-P-DW-0203-01 | 10"-PT-13-0192-FC01                                                                               | N/A    | N/A      | 100/FV                    | 250               | 10-90                        | 27-50                | MPC-2 | 1/2"NPTM          | SS316                              | *            | *         | -              | A    | -      |  |
| 586                                                                                                                                                                                              | 41-PDIT-3674 | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0203-01 | ACROSE ND-HBG-1470                                                                                | DCS    | AI       | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 2"/300#RF         | SS316                              | *            | *         | -              | A    | -      |  |
| 587                                                                                                                                                                                              | 41-PIT-3681  | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0203-01 | 10"-GF-43-4179-AC01                                                                               | PSD    | AI       | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1/2"NPT           | SS316                              | *            | *         | -              | A    | -      |  |
| 588                                                                                                                                                                                              | 41-PSV-1154A | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0203-01 | 2"-HM-41-0465-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1" D 2"/300#RF    | SS316                              | *            | *         | -              | A    | -      |  |
| 589                                                                                                                                                                                              | 20-PSV-1154B | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0203-01 | 2"-HM-41-0466-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1" D 2"/300#RF    | SS316                              | *            | *         | -              | A    | -      |  |
| 590                                                                                                                                                                                              | 41-TW-3670   | THERMOWELL                                            | 17039-ND-P-DW-0203-01 | 3"-HM-41-3668-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 2"/300#RF         | SS316                              | *            | *         | -              | A    | -      |  |
| 591                                                                                                                                                                                              | 41-TI-3670   | TEMPERATURE INDICATOR                                 | 17039-ND-P-DW-0203-01 | 3"-HM-41-3668-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1/2"NPTM          | SS316                              | *            | *         | -              | A    | -      |  |
| 592                                                                                                                                                                                              | 41-PIT-3671  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL              | 17039-ND-P-DW-0203-01 | 3"-HM-41-3668-BC01-1N                                                                             | PSD    | AI       | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 2"/300#RF         | SS316                              | *            | *         | -              | A    | -      |  |
| 593                                                                                                                                                                                              | 41-TV-3679   | TEMPERATURE CONTROL VALVE                             | 17039-ND-P-DW-0203-01 | 3"-HM-41-3669-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 2"/300#RF         | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 594                                                                                                                                                                                              | 41-TY-3679   | POSITIONER                                            | 17039-ND-P-DW-0203-01 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A               | SS316                              |              |           |                |      |        |  |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |               |                                    |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |               |                                    |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                                                                                                                                                                                               | Tag No        | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 611                                                                                                                                                                                                                                                                                                                                                                                                | 20-BXV-1033   | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-02 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 612                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-1033   | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 613                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-1033   | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 614                                                                                                                                                                                                                                                                                                                                                                                                | 20-RO-1409    | RESTRICTION ORIFICE                            | 17039-ND-P-DW-0203-02 | 2"-PV-20-0353-BC01                                                                                | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 615                                                                                                                                                                                                                                                                                                                                                                                                | 20-PT-0405    | DIAPHRAGM SEAL TYPE PRESSURE TRANSMITTER       | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | PSD    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 616                                                                                                                                                                                                                                                                                                                                                                                                | 20-PI-0406    | PRESSURE INDICATOR WITH DIAPHRAGM SEAL         | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 617                                                                                                                                                                                                                                                                                                                                                                                                | 20-PT-1067    | DIAPHRAGM SEAL TYPE PRESSURE TRANSMITTER       | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | DCS    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 618                                                                                                                                                                                                                                                                                                                                                                                                | 20-PY-1067A   | POSITIONER                                     | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 619                                                                                                                                                                                                                                                                                                                                                                                                | 20-PV-1067A   | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-02 | 4"-PV-20-0356-BC01                                                                                | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 620                                                                                                                                                                                                                                                                                                                                                                                                | 20-FT-0407    | SENIOR ORIFICE FLOW TRANSMITTER                | 17039-ND-P-DW-0203-02 | 4"-PV-20-0354-BC01                                                                                | DCS    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 1/2" NPTF     | SS316                              | *            | *         | -              | A    | -      |
| 621                                                                                                                                                                                                                                                                                                                                                                                                | 20-FW-0407    | FLOW ELEMENT (ORIFICE PLATE)                   | 17039-ND-P-DW-0203-02 | 4"-PV-20-0354-BC01                                                                                | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 4"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 622                                                                                                                                                                                                                                                                                                                                                                                                | 20-PV-1067B   | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-02 | 4"-PV-20-0354-BC01                                                                                | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 3"/300#RTJ    | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 623                                                                                                                                                                                                                                                                                                                                                                                                | 20-PY-1067B   | POSITIONER                                     | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 624                                                                                                                                                                                                                                                                                                                                                                                                | 20-SDV-2001   | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-02 | 4"-PV-20-0355-AC01                                                                                | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 4"/300#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 625                                                                                                                                                                                                                                                                                                                                                                                                | 20-SXV-2001   | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-02 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 626                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-2001   | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 627                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-2001   | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 628                                                                                                                                                                                                                                                                                                                                                                                                | 20-TW-0403    | THERMOWELL                                     | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 629                                                                                                                                                                                                                                                                                                                                                                                                | 20-TI-0403    | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 630                                                                                                                                                                                                                                                                                                                                                                                                | 20-ILT-0402   | DP TYPE LEVEL TRANSMITTER                      | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | PSD    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 631                                                                                                                                                                                                                                                                                                                                                                                                | 20-ILG-7620   | TRANSPARENT TYPE LEVEL INDICATOR               | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 632                                                                                                                                                                                                                                                                                                                                                                                                | 20-ILT-4502   | DISPLACER TYPE LEVEL TRANSMITTER               | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | DCS    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 633                                                                                                                                                                                                                                                                                                                                                                                                | 20-LG/LT-1068 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0203-02 | ND-MBD-1020                                                                                       | DCS    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 634                                                                                                                                                                                                                                                                                                                                                                                                | 20-LT-0404    | DISPLACER TYPE LEVEL TRANSMITTER               | 17039-ND-P-DW-0203-02 | ACROSS ND-MBD-1020                                                                                | PSD    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 635                                                                                                                                                                                                                                                                                                                                                                                                | 20-SDV-1039   | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-02 | 4"-PL--20-0357-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 4"/300#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 636                                                                                                                                                                                                                                                                                                                                                                                                | 20-SXV-1039   | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-02 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS 316                             | *            | *         | -              | A    | -      |
| 637                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-1039   | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 638                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-1039   | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 639                                                                                                                                                                                                                                                                                                                                                                                                | 20-FIT-0410   | CORIOLIS TYPE FLOW TRANSMITTER                 | 17039-ND-P-DW-0203-02 | 4"-PL--20-0357-BC01                                                                               | DCS    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 4"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 640                                                                                                                                                                                                                                                                                                                                                                                                | 20-LV-1068    | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0203-02 | 3"-PL--20-0357-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 3"/300#RF     | BODY:CARBONSTEEL / TRIM : SS316    | *            | *         | -              | A    | -      |
| 641                                                                                                                                                                                                                                                                                                                                                                                                | 20-LY-1068    | POSITIONER                                     | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 642                                                                                                                                                                                                                                                                                                                                                                                                | 44-SDV-4502   | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-02 | 3"-PW--44-4501--BC01                                                                              | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 643                                                                                                                                                                                                                                                                                                                                                                                                | 44-SXV-4502   | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-02 | 3"-PW--44-4501--BC01                                                                              | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 644                                                                                                                                                                                                                                                                                                                                                                                                | 44-ZSL-4502   | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 645                                                                                                                                                                                                                                                                                                                                                                                                | 44-ZSH-4502   | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 646                                                                                                                                                                                                                                                                                                                                                                                                | 44-FT-4501    | MAGNETIC TYPE FLOW TRANSMITTER                 | 17039-ND-P-DW-0203-02 | 3"-PW--44-4501--BC01                                                                              | DCS    | AI       | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 3"/300#RF     | SS316                              | *            | *         | -              | A    | -      |
| 647                                                                                                                                                                                                                                                                                                                                                                                                | 44-ILV-4502   | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0203-02 | 3"-PW--44-4501--BC01                                                                              | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF     | BODY:CARBONSTEEL / TRIM : SS316    | *            | *         | -              | A    | -      |
| 648                                                                                                                                                                                                                                                                                                                                                                                                | 44-ILY-4502   | POSITIONER                                     | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 649                                                                                                                                                                                                                                                                                                                                                                                                | 20-SDV-1105   | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-02 | 10"-PT-20-0350-DC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 10"/2500#RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 650                                                                                                                                                                                                                                                                                                                                                                                                | 20-SXV-1105   | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-02 | 3"-PW--44-4501--BC01                                                                              | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 651                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-1105   | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 652                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-1105   | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 653                                                                                                                                                                                                                                                                                                                                                                                                | 42-FI-3807    | ROTAMETER                                      | 17039-ND-P-DW-0203-03 | 1/2"-CO-42-3818-GT20                                                                              | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 654                                                                                                                                                                                                                                                                                                                                                                                                | 20-ESDV-0476  | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-03 | 12"-PT-13-0182-FC01                                                                               | N/A    | N/A      | 15/FV                     | 250               | 5-10                         | 27-50                | MPC-2 | 12"/2500#RTJ  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 655                                                                                                                                                                                                                                                                                                                                                                                                | 20-SXV-0476   | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-03 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 656                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSL-0476   | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-03 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 657                                                                                                                                                                                                                                                                                                                                                                                                | 20-ZSH-0476   | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-03 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 658                                                                                                                                                                                                                                                                                                                                                                                                | 20-TW-0478</  |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |               |                                    |              |           |                |      |        |

| <div><div>KAVIN™</div><div><div>অভিযান বুনিয়া নির্মিত<br/>Oil India Limited</div></div></div> |                |                                                |                       | CLIENT : OIL INDIA LIMITED                                                                         |        |          |                           |                   |                              |                      |       |                |                                    |              | DOC NO. : |                |      |        |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|------------------------------------|--------------|-----------|----------------|------|--------|--|--|
|                                                                                                                                                                                                                                                               |                |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                    |              | REV NO. : |                |      |        |  |  |
|                                                                                                                                                                                                                                                               |                |                                                |                       |                                                                                                    |        |          |                           |                   |                              |                      |       |                |                                    |              | DATE :    |                |      |        |  |  |
| S.No                                                                                                                                                                                                                                                          | Tag No         | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.                                                                                  | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |  |
| 672                                                                                                                                                                                                                                                           | 41-SDV-3608    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-03 | 3"-HM-41-3608-BC01-1N                                                                              | N/A    | N/A      | 12/FV                     | 250               | 5                            | 100                  | MPC-2 | 3"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 673                                                                                                                                                                                                                                                           | 41-SXV-3608    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-03 | N/A                                                                                                | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 674                                                                                                                                                                                                                                                           | 41-ZSL-3608    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-03 | N/A                                                                                                | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 675                                                                                                                                                                                                                                                           | 41-ZSH-3608    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-03 | N/A                                                                                                | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 676                                                                                                                                                                                                                                                           | 41-PI-3609     | PRESSURE INDICATOR WITH DIAPHRAGM SEAL         | 17039-ND-P-DW-0203-03 | 3"-HM-41-3608-BC01-1N                                                                              | N/A    | N/A      | 12/FV                     | 250               | 5                            | 100                  | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 677                                                                                                                                                                                                                                                           | 41-TW-3610     | THERMOWELL                                     | 17039-ND-P-DW-0203-03 | 3"-HM-41-3674-BC01-1N                                                                              | N/A    | N/A      | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 678                                                                                                                                                                                                                                                           | 41-TI-3610     | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0203-03 | 3"-HM-41-3674-BC01-1N                                                                              | N/A    | N/A      | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 679                                                                                                                                                                                                                                                           | 20-TW-0480     | THERMOWELL                                     | 17039-ND-P-DW-0203-03 | 3"-HM-41-3674-BC01-1N                                                                              | N/A    | N/A      | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 680                                                                                                                                                                                                                                                           | 20-TI-0480     | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0203-03 | 3"-HM-41-3674-BC01-1N                                                                              | N/A    | N/A      | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 681                                                                                                                                                                                                                                                           | 20-TW-0481     | THERMOWELL                                     | 17039-ND-P-DW-0203-03 | 10"-PT-20-0366-BC01                                                                                | N/A    | N/A      | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 682                                                                                                                                                                                                                                                           | 20-TIT-0481    | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0203-03 | 10"-PT-20-0366-BC01                                                                                | PSD    | AI       | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 683                                                                                                                                                                                                                                                           | 20-PI-0482     | PRESSURE INDICATOR                             | 17039-ND-P-DW-0203-03 | 10"-PT-20-0366-BC01                                                                                | N/A    | N/A      | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 684                                                                                                                                                                                                                                                           | 20-TW-0483     | THERMOWELL                                     | 17039-ND-P-DW-0203-03 | 10"-PT-20-0366-BC01                                                                                | N/A    | N/A      | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 685                                                                                                                                                                                                                                                           | 20-TT-0483     | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0203-03 | 10"-PT-20-0366-BC01                                                                                | DCS    | AI       | 15/FV                     | 250               | 4.5-9.5                      | 50                   | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 686                                                                                                                                                                                                                                                           | 20-BDV-1033    | BLOWDOWN VALVE                                 | 17039-ND-P-DW-0203-03 | 2"-PV-20-0373-BC01                                                                                 | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/2500#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 687                                                                                                                                                                                                                                                           | 20-BXV-1033    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-03 | N/A                                                                                                | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 688                                                                                                                                                                                                                                                           | 20-ZSL-1033    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-03 | N/A                                                                                                | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 689                                                                                                                                                                                                                                                           | 20-ZSH-1033    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-03 | N/A                                                                                                | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 690                                                                                                                                                                                                                                                           | 20-RO-1034     | RESTRICTION ORIFICE                            | 17039-ND-P-DW-0203-03 | 2"-PV-20-0373-BC01                                                                                 | N/A    | N/A      | 30/FV                     | 80                | 26                           | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 691                                                                                                                                                                                                                                                           | 20-PSV-0476A   | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0203-04 | 6"-PV-20-0371-AC01                                                                                 | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 4" P 6"/150#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 692                                                                                                                                                                                                                                                           | 20-PSV-0476B   | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0203-04 | 6"-PV-20-0372-AC01                                                                                 | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 4" P 6"/150#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 693                                                                                                                                                                                                                                                           | 20-PIT-0454    | DIAPHRAGM SEAL TYPE PRESSURE TRANSMITTER       | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | PSD    | AI       | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 694                                                                                                                                                                                                                                                           | 20-PI-0455     | PRESSURE INDICATOR WITH DIAPHRAGM SEAL         | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 695                                                                                                                                                                                                                                                           | 20-PIT-0456    | DIAPHRAGM SEAL TYPE PRESSURE TRANSMITTER       | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | DCS    | AI       | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 696                                                                                                                                                                                                                                                           | 20-FIT-0457    | SENIOR ORIFICE FLOW TRANSMITTER                | 17039-ND-P-DW-0203-04 | 8"-PV-20-0367-AC01                                                                                 | DCS    | AI       | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 1/2" NPTF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 697                                                                                                                                                                                                                                                           | 20-FE-0457     | FLOW ELEMENT (ORIFICE PLATE)                   | 17039-ND-P-DW-0203-04 | 8"-PV-20-0367-AC01                                                                                 | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 8"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 698                                                                                                                                                                                                                                                           | 20-PV-0456A    | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-04 | 8"-PV-20-0394-AC01                                                                                 | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 6"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 699                                                                                                                                                                                                                                                           | 20-PY-0456A    | POSITIONER                                     | 17039-ND-P-DW-0203-04 | N/A                                                                                                | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |  |
| 700                                                                                                                                                                                                                                                           | 20-PV-0456B    | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-04 | 8"-PV-20-0394-AC01                                                                                 | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 6"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 701                                                                                                                                                                                                                                                           | 20-PY-0456B    | POSITIONER                                     | 17039-ND-P-DW-0203-04 | N/A                                                                                                | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |  |
| 702                                                                                                                                                                                                                                                           | 20-SDV-0476    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-04 | 8"-PV-20-0394-AC01                                                                                 | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 8"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 703                                                                                                                                                                                                                                                           | 20-SXV-0476    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-04 | N/A                                                                                                | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 704                                                                                                                                                                                                                                                           | 20-ZSL-0476    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-04 | N/A                                                                                                | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 705                                                                                                                                                                                                                                                           | 20-ZSH-0476    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-04 | N/A                                                                                                | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 706                                                                                                                                                                                                                                                           | 20-TW-0465     | THERMOWELL                                     | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 707                                                                                                                                                                                                                                                           | 20-TI-0465     | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 708                                                                                                                                                                                                                                                           | 20-ILIT-0464   | DISPLACER TYPE LEVEL TRANSMITTER               | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | PSD    | AI       | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 709                                                                                                                                                                                                                                                           | 20-ILG-7684    | TRANSPARENT TYPE LEVEL INDICATOR               | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 710                                                                                                                                                                                                                                                           | 20-ILIT-0466   | DISPLACER TYPE LEVEL TRANSMITTER               | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | DCS    | AI       | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 711                                                                                                                                                                                                                                                           | 20-LG/LIT-0463 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0203-04 | ND-MBD-1340                                                                                        | DCS    | AI       | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 712                                                                                                                                                                                                                                                           | 20-LT-0462     | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL  | 17039-ND-P-DW-0203-04 | ACROSS ND-MBD-1340                                                                                 | PSD    | AI       | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 713                                                                                                                                                                                                                                                           | 20-SDV-0459    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-04 | 4"-PL--20-0369-AC01                                                                                | N/A    | N/A      | 15/FV                     | 80                | 4.5-9.5                      | 50                   | MPC-2 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 714                                                                                                                                                                                                                                                           | 20-SXV-0459    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-04 | N/A                                                                                                | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 715                                                                                                                                                                                                                                                           | 20-ZSL-0459    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-04 | N/A                                                                                                | DCS    | DI       |                           |                   |                              |                      |       |                |                                    |              |           |                |      |        |  |  |

| <div><div><div>KAVIN™</div></div><div><div>अभियान सुविधा निमित्त<br/>Oil India Limited</div></div></div> <div>CLIENT : OIL INDIA LIMITED</div> <div>DOC NO. :</div> |                 |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                    |              |           | REV NO. :      |      |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                                                                                                                                     |                 |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                    |              |           |                |      |        |
|                                                                                                                                                                                                                                                                                                                                     |                 |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                    |              |           | DATE :         |      |        |
| S.No                                                                                                                                                                                                                                                                                                                                | Tag No          | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 733                                                                                                                                                                                                                                                                                                                                 | 20-BDV-1033A    | BLOWDOWN VALVE                                 | 17039-ND-P-DW-0203-05 | 2"-PV-20-0373A-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 734                                                                                                                                                                                                                                                                                                                                 | 20-BXV-1033A    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |
| 735                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-1033A    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 736                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-1033A    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 737                                                                                                                                                                                                                                                                                                                                 | 20-RO-1409A     | RESTRICTION ORIFICE                            | 17039-ND-P-DW-0203-05 | 2"-PV-20-0373A-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 738                                                                                                                                                                                                                                                                                                                                 | 20-PIT-0454A    | DIAPHRAGM SEAL TYPE PRESSURE TRANSMITTER       | 17039-ND-P-DW-0203-05 | ND-MBD-1500                                                                                       | PSD    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 739                                                                                                                                                                                                                                                                                                                                 | 20-PI-0455A     | PRESSURE INDICATOR WITH DIAPHRAGM SEAL         | 17039-ND-P-DW-0203-05 | ND-MBD-1500                                                                                       | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 740                                                                                                                                                                                                                                                                                                                                 | 20-PIT-0456A    | DIAPHRAGM SEAL TYPE PRESSURE TRANSMITTER       | 17039-ND-P-DW-0203-05 | ND-MBD-1500                                                                                       | DCS    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 741                                                                                                                                                                                                                                                                                                                                 | 20-PIT-0459     | DIAPHRAGM SEAL TYPE PRESSURE TRANSMITTER       | 17039-ND-P-DW-0203-05 | 8"-PV-20-0367A-BC01                                                                               | DCS    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 742                                                                                                                                                                                                                                                                                                                                 | 20-FIT-0457A    | SENIOR ORIFICE FLOW TRANSMITTER                | 17039-ND-P-DW-0203-05 | 8"-PV-20-0367A-BC01                                                                               | DCS    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 1/2" NPTF      | SS316                              | *            | *         | -              | A    | -      |
| 743                                                                                                                                                                                                                                                                                                                                 | 20-FE-0457A     | FLOW ELEMENT (ORIFICE PLATE)                   | 17039-ND-P-DW-0203-05 | 8"-PV-20-0367A-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 8"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 744                                                                                                                                                                                                                                                                                                                                 | 20-PV-0456A     | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-05 | 8"-PV-20-0394A-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 8"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 745                                                                                                                                                                                                                                                                                                                                 | 20-PY-0456A     | POSITIONER                                     | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 746                                                                                                                                                                                                                                                                                                                                 | 20-PV-0459A     | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-05 | 8"-PV-20-0367A-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 6"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 747                                                                                                                                                                                                                                                                                                                                 | 20-PY-0459A     | POSITIONER                                     | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 748                                                                                                                                                                                                                                                                                                                                 | 20-PV-0459B     | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-05 | 4"-PV-20-0367B-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 749                                                                                                                                                                                                                                                                                                                                 | 20-PY-0459B     | POSITIONER                                     | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 750                                                                                                                                                                                                                                                                                                                                 | 20-TW-0465A     | THERMOWELL                                     | 17039-ND-P-DW-0203-05 | ND-MBD-1500                                                                                       | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 751                                                                                                                                                                                                                                                                                                                                 | 20-TI-0465A     | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0203-05 | ND-MBD-1500                                                                                       | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |
| 752                                                                                                                                                                                                                                                                                                                                 | 20-ILG-7684A    | TRANSPARENT TYPE LEVEL INDICATOR               | 17039-ND-P-DW-0203-05 | ND-MBD-1500                                                                                       | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 753                                                                                                                                                                                                                                                                                                                                 | 20-ILIT-0466A   | DISPLACER TYPE LEVEL TRANSMITTER               | 17039-ND-P-DW-0203-05 | ND-MBD-1500                                                                                       | DCS    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 754                                                                                                                                                                                                                                                                                                                                 | 20-LG/LIT-0463A | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0203-05 | ND-MBD-1500                                                                                       | DCS    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 755                                                                                                                                                                                                                                                                                                                                 | 20-LT-0464A     | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL  | 17039-ND-P-DW-0203-05 | ACROSS ND-MBD-1500                                                                                | PSD    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 756                                                                                                                                                                                                                                                                                                                                 | 20-LT-0462A     | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL  | 17039-ND-P-DW-0203-05 | ACROSS ND-MBD-1500                                                                                | PSD    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 757                                                                                                                                                                                                                                                                                                                                 | 20-SDV-0476A    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-05 | 8"-PV-20-0367A-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 758                                                                                                                                                                                                                                                                                                                                 | 20-SXV-0476A    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |
| 759                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-0476A    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 760                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-0476A    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 761                                                                                                                                                                                                                                                                                                                                 | 20-SDV-0476B    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-05 | 4"-PV-20-0367B-BC01                                                                               | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 762                                                                                                                                                                                                                                                                                                                                 | 20-SXV-0476B    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |
| 763                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-0476B    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 764                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-0476B    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 765                                                                                                                                                                                                                                                                                                                                 | 20-SDV-0459A    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-05 | 4"-PL--20-0369A-BC01                                                                              | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 4"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 766                                                                                                                                                                                                                                                                                                                                 | 20-SXV-0459A    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |
| 767                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-0459A    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 768                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-0459A    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 769                                                                                                                                                                                                                                                                                                                                 | 20-FIT-0460A    | CORIOLIS TYPE FLOW TRANSMITTER                 | 17039-ND-P-DW-0203-05 | 4"-PL--20-0369A-BC01                                                                              | DCS    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 4"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 770                                                                                                                                                                                                                                                                                                                                 | 20-LV-0463A     | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0203-05 | 3"-PL--20-0369A-BC01                                                                              | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 3"/300#RF      | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |
| 771                                                                                                                                                                                                                                                                                                                                 | 20-LY-0463A     | POSITIONER                                     | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 772                                                                                                                                                                                                                                                                                                                                 | 44-SDV-4668A    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-05 | 3"-PW--44-4668A-BC01                                                                              | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 3"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 773                                                                                                                                                                                                                                                                                                                                 | 44-SXV-4668A    | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |
| 774                                                                                                                                                                                                                                                                                                                                 | 44-ZSL-4668A    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 775                                                                                                                                                                                                                                                                                                                                 | 44-ZSH-4668A    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 776                                                                                                                                                                                                                                                                                                                                 | 44-FIT-4669A    | MAGNETIC TYPE FLOW TRANSMITTER                 | 17039-ND-P-DW-0203-05 | 3"-PW--44-4668A-BC01                                                                              | DCS    | AI       | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 3"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 777                                                                                                                                                                                                                                                                                                                                 | 44-ILV-0466A    | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0203-05 | 3"-PW--44-4668A-BC01                                                                              | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 2"/300#RF      | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |
| 778                                                                                                                                                                                                                                                                                                                                 | 44-ILY-0466A    | POSITIONER                                     | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 779                                                                                                                                                                                                                                                                                                                                 | 20-SDV-1110     | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-05 | 10"-PT-20-4175A-DC01                                                                              | N/A    | N/A      | 30/FV                     | 80                | 4.5-26                       | 50                   | MPC-2 | 3"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 780                                                                                                                                                                                                                                                                                                                                 | 20-SXV-1110     | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-05 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |
| 781                                                                                                                                                                                                                                                                                                                                 | 20-ZSL-1110     | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 782                                                                                                                                                                                                                                                                                                                                 | 20-ZSH-1110     | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-05 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 783                                                                                                                                                                                                                                                                                                                                 | 20-FV-0200B     | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0203-06 | 4"-PT-20-0396B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 3"/150#RF      | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |
| 784                                                                                                                                                                                                                                                                                                                                 | 20-FY--0200B    | POSITIONER                                     | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 785                                                                                                                                                                                                                                                                                                                                 | 20-FIT-0200     | DP TYPE FLOW TRANSMITTER                       | 17039-ND-P-DW-0203-06 | 4"-PT-20-0358-AC01                                                                                | DCS    | AI       | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 1/2"NPTF       | SS316                              | *            | *         | -              | A    | -      |
| 786                                                                                                                                                                                                                                                                                                                                 | 20-FE-0200      | FLOW ELEMENT (ORIFICE PLATE)                   | 17039-ND-P-DW-0203-06 | 4"-PT-20-0358-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 4"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 787                                                                                                                                                                                                                                                                                                                                 | 20-PIT-0467     | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0203-06 | 4"-PT-20-0358-AC01                                                                                | PSD    | AI       | 10/FV                     | 150               | 2.8                          | 50                   | MPC-2 | 1/2" NPT       | SS316                              | *            | *         | -              | A    | -      |
| 788                                                                                                                                                                                                                                                                                                                                 | 20-FV-0200A     | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0203-06 | 4"-PT-20-0358-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 3"/150#RF      | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |
| 789                                                                                                                                                                                                                                                                                                                                 | 20-FY--0200A    | POSITIONER                                     | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 790                                                                                                                                                                                                                                                                                                                                 | 20-PSV-0477A    | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0203-06 | 3"-PT-20-0378-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 2.8                          | 50                   | MPC-2 | 2" J 3"/150#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 791                                                                                                                                                                                                                                                                                                                                 | 20-PSV-0477B    | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0203-06 | 3"-PT-20-0379-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 2.8                          | 50                   | MPC-2 | 2" J 3"/150#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 792                                                                                                                                                                                                                                                                                                                                 | 20-PI-0468      | PRESSURE INDICATOR                             | 17039-ND-P-DW-0203-06 | 4"-PT-20-0383-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 2.8                          | 50                   | MPC-2 | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 793                                                                                                                                                                                                                                                                                                                                 | 20-TW-0469      | THERMOWELL                                     | 17039-ND-P-DW-0203-06 | 4"-PT-20-0383-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 2.8                          | 50                   | MPC-2 | 1 1/2"/150#RF  | SS316                              | *            | *         | -              | A    | -      |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|------------------------------------|--------------|-----------|----------------|------|--------|--|--|
|                                                                                                                                                                                                                         |              |                                        |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                    |              | REV NO. : |                |      |        |  |  |
|                                                                                                                                                                                                                         |              |                                        |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                    |              | DATE :    |                |      |        |  |  |
| S.No                                                                                                                                                                                                                    | Tag No       | INSTRUMENT DESCRIPTION                 | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |  |
| 794                                                                                                                                                                                                                     | 20-TI-0469   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-06 | 4"-PT-20-0383-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 2.8                          | 50                   | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 795                                                                                                                                                                                                                     | 20-PDIT-0470 | DIFFERENTIAL PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-06 | ACROSE ND-HBG-A-1030                                                                              | DCS    | AI       | 10/FV                     | 150               | 2.8                          | 50                   | MPC-2 | 1/2"NPT        | SS316                              | *            | *         | -              | A    | -      |  |  |
| 796                                                                                                                                                                                                                     | 20-TW-0479   | THERMOWELL                             | 17039-ND-P-DW-0203-06 | 3"-PL-20-0457-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4.5                          | 112                  | MPC-2 | 1 1/2"/150#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 797                                                                                                                                                                                                                     | 20-TI-0479   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-06 | 3"-PL-20-0457-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4.5                          | 112                  | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 798                                                                                                                                                                                                                     | 20-PSV-0476A | PRESSURE SAFETY VALVE                  | 17039-ND-P-DW-0203-06 | 2"-PL-20-0380-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4.5                          | 112                  | MPC-2 | 1" E 2"/150#RF | Body:Carbon Steel<br>Trim : SS316  | *            | *         | -              | A    | -      |  |  |
| 799                                                                                                                                                                                                                     | 20-PSV-0476B | PRESSURE SAFETY VALVE                  | 17039-ND-P-DW-0203-06 | 2"-PL-20-0381-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4.5                          | 112                  | MPC-2 | 1"E 2"/150#RF  | Body:Carbon Steel<br>Trim : SS316  | *            | *         | -              | A    | -      |  |  |
| 800                                                                                                                                                                                                                     | 20-XV-0473A  | SHUTDOWN VALVE                         | 17039-ND-P-DW-0203-06 | 4"-PL-20-0376-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 3"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 801                                                                                                                                                                                                                     | 20-XY-0473A  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 802                                                                                                                                                                                                                     | 20-XY-0473C  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-06 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 803                                                                                                                                                                                                                     | 20-ZSL-0473A | LIMIT SWITCH LOW                       | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 804                                                                                                                                                                                                                     | 20-ZSH-0473A | LIMIT SWITCH HIGH                      | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 805                                                                                                                                                                                                                     | 20-XV-0473B  | SHUTDOWN VALVE                         | 17039-ND-P-DW-0203-06 | 4"-PL-20-0375-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 3"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 806                                                                                                                                                                                                                     | 20-XY-0473B  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 807                                                                                                                                                                                                                     | 20-XY-0473D  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-06 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | V              | SS316                              | *            | *         | -              | A    | -      |  |  |
| 808                                                                                                                                                                                                                     | 20-ZSL-0473B | LIMIT SWITCH LOW                       | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 809                                                                                                                                                                                                                     | 20-ZSH-0473B | LIMIT SWITCH HIGH                      | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 810                                                                                                                                                                                                                     | 20-AIT-0475  | ANALYSER TRANSMITTER                   | 17039-ND-P-DW-0203-06 | 3"-PL-20-0374-AC01                                                                                | DCS    | AI       | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 1/2"NPT        | SS316                              | *            | *         | -              | A    | -      |  |  |
| 811                                                                                                                                                                                                                     | 20-LV-0476   | LEVEL CONTROL VALVE                    | 17039-ND-P-DW-0203-06 | 3"-PL-20-0374-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |  |  |
| 812                                                                                                                                                                                                                     | 20-LY-0476   | POSITIONER                             | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |  |
| 813                                                                                                                                                                                                                     | 20-PI-0477   | PRESSURE INDICATOR                     | 17039-ND-P-DW-0203-06 | 3"-PL-20-0374-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 814                                                                                                                                                                                                                     | 20-TW-0478   | THERMOWELL                             | 17039-ND-P-DW-0203-06 | 3"-PL-20-0374-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 1 1/2"/150#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 815                                                                                                                                                                                                                     | 20-TI-0478   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-06 | 3"-PL-20-0374-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 816                                                                                                                                                                                                                     | 20-PDIT-0480 | DIFFERENTIAL PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-06 | ACROSE ND-HBG-A-1030                                                                              | DCS    | AI       | 10/FV                     | 150               | 2.8                          | 95-98                | MPC-2 | 1/2"NPT        | SS316                              | *            | *         | -              | A    | -      |  |  |
| 817                                                                                                                                                                                                                     | 20-TW-0471   | THERMOWELL                             | 17039-ND-P-DW-0203-06 | 4"-PT-20-0377-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 2.3                          | 95-98                | MPC-2 | 1 1/2"/150#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 818                                                                                                                                                                                                                     | 20-TI-0471   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-06 | 4"-PT-20-0377-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 2.3                          | 95-98                | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 819                                                                                                                                                                                                                     | 20-XV-1120   | SHUTDOWN VALVE                         | 17039-ND-P-DW-0203-06 | 4"-PT-20-0358-AC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 820                                                                                                                                                                                                                     | 20-XY-1120   | SOLENOID VALVE                         | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 821                                                                                                                                                                                                                     | 20-ZSL-1120  | LIMIT SWITCH LOW                       | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 822                                                                                                                                                                                                                     | 20-ZSH-1120  | LIMIT SWITCH HIGH                      | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 823                                                                                                                                                                                                                     | 20-XV-1121   | SHUTDOWN VALVE                         | 17039-ND-P-DW-0203-06 | 4"-PT-20-0358B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 824                                                                                                                                                                                                                     | 20-XY-1121   | SOLENOID VALVE                         | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 825                                                                                                                                                                                                                     | 20-ZSL-1121  | LIMIT SWITCH LOW                       | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 826                                                                                                                                                                                                                     | 20-ZSH-1121  | LIMIT SWITCH HIGH                      | 17039-ND-P-DW-0203-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 827                                                                                                                                                                                                                     | 41-PSV-3607A | PRESSURE SAFETY VALVE                  | 17039-ND-P-DW-0203-07 | 2"-HM-41-3606-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1" D 2"/300#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 828                                                                                                                                                                                                                     | 41-PSV-3607B | PRESSURE SAFETY VALVE                  | 17039-ND-P-DW-0203-07 | 2"-HM-41-3605-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1" D 2"/300#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 829                                                                                                                                                                                                                     | 20-PDIT-3605 | DIFFERENTIAL PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-07 | ACROSE ND-HBG-A-1040                                                                              | DCS    | AI       | 12/FV                     | 250               | 5                            | 100                  | MPC-2 | 1/2"NPT        | SS316                              | *            | *         | -              | A    | -      |  |  |
| 830                                                                                                                                                                                                                     | 41-TW-3603   | THERMOWELL                             | 17039-ND-P-DW-0203-07 | 2"-HM-41-3603-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |  |
| 831                                                                                                                                                                                                                     | 41-TI-3603   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-07 | 2"-HM-41-3603-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 832                                                                                                                                                                                                                     | 41-PI-3604   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0203-07 | 2"-HM-41-3603-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 833                                                                                                                                                                                                                     | 41-TV-0470   | TEMPERATURE CONTROL VALVE              | 17039-ND-P-DW-0203-07 | 2"-HM-41-3603-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 834                                                                                                                                                                                                                     | 41-TY-0470   | POSITIONER                             | 17039-ND-P-DW-0203-07 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |  |
| 835                                                                                                                                                                                                                     | 41-SDV-3606  | SHUTDOWN VALVE                         | 17039-ND-P-DW-0203-07 | 2"-HM-41-3601-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 5.0                          | 200                  | MPC-2 | 2"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 836                                                                                                                                                                                                                     | 41-SXV-3606  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-07 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | -              | SS316                              | *            | *         | -              | A    | -      |  |  |
| 837                                                                                                                                                                                                                     | 41-ZIL-3606  | LIMIT SWITCH LOW                       | 17039-ND-P-DW-0203-07 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |  |
| 838                                                                                                                                                                                                                     | 41-ZIH 3606  | LIMIT SWITCH HIGH                      | 17039-ND-P-DW-0203-07 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *</          |           |                |      |        |  |  |

| <div><div></div><div></div></div> |                 |                                                |                       | CLIENT : OIL INDIA LIMITED                                                                        |        | DOC NO. : |                           |                   |                              |                      |       |               |                                    |              |           |                |      |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|-----------|---------------------------|-------------------|------------------------------|----------------------|-------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                  |                 |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        | REV NO. : |                           |                   |                              |                      |       |               |                                    |              |           |                |      |        |
|                                                                                                                                                                                                  |                 |                                                |                       |                                                                                                   |        | DATE :    |                           |                   |                              |                      |       |               |                                    |              |           |                |      |        |
| S.No                                                                                                                                                                                             | Tag No          | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE  | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 855                                                                                                                                                                                              | 20-PT-1097      | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0203-08 | ND-MBD-A-1050                                                                                     | DCS    | AI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 856                                                                                                                                                                                              | 20-PV-1097A     | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-08 | 3"-PV-20-0363-AC01                                                                                | N/A    | N/A       | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | Body:Carbon Steel<br>Trim : SS316  | *            | *         | -              | A    | -      |
| 857                                                                                                                                                                                              | 20-PY-1097A     | POSITIONER                                     | 17039-ND-P-DW-0203-08 | N/A                                                                                               | DCS    | AO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 858                                                                                                                                                                                              | 20-ILV-1097B    | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0203-08 | 3"-PV-20-0905-AC01                                                                                | N/A    | N/A       | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | Body:Carbon Steel<br>Trim : SS316  | *            | *         | -              | A    | -      |
| 859                                                                                                                                                                                              | 20-ILY-1097B    | POSITIONER                                     | 17039-ND-P-DW-0203-08 | N/A                                                                                               | DCS    | AO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 860                                                                                                                                                                                              | 20-LIT/LG-0476  | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0203-08 | ND-MBD-A-1050                                                                                     | DCS    | AI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 861                                                                                                                                                                                              | 20-LIT-0416     | DP TYPE LEVEL TRANSMITTER                      | 17039-ND-P-DW-0203-08 | ND-MBD-A-1050                                                                                     | PSD    | AI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 862                                                                                                                                                                                              | 20-AI-1060A     | CURRENT INDICATION                             | 17039-ND-P-DW-0203-08 | DEHYDRATOR TRANSFORMER                                                                            | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 863                                                                                                                                                                                              | 20-AI-1060B     | CURRENT INDICATION                             | 17039-ND-P-DW-0203-08 | DEHYDRATOR TRANSFORMER                                                                            | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 864                                                                                                                                                                                              | 20-EI-1060A     | VOLTAGE INDICATOR                              | 17039-ND-P-DW-0203-08 | DEHYDRATOR TRANSFORMER                                                                            | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 865                                                                                                                                                                                              | 20-EI-1060B     | VOLTAGE INDICATOR                              | 17039-ND-P-DW-0203-08 | DEHYDRATOR TRANSFORMER                                                                            | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 866                                                                                                                                                                                              | 20-HS-2012A     | START                                          | 17039-ND-P-DW-0203-08 | DEHYDRATOR TRANSFORMER                                                                            | DCS    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 867                                                                                                                                                                                              | 20-XS-2012      | SHUTDOWN                                       | 17039-ND-P-DW-0203-08 | DEHYDRATOR TRANSFORMER                                                                            | PSD    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 868                                                                                                                                                                                              | 20-HS-2012B     | STOP                                           | 17039-ND-P-DW-0203-08 | DEHYDRATOR TRANSFORMER                                                                            | DCS    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 869                                                                                                                                                                                              | 20-XI-1060      | RUNNING                                        | 17039-ND-P-DW-0203-08 | LV SWITCH GEAR                                                                                    | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 870                                                                                                                                                                                              | 20-XA-1060      | FAULT ALARM                                    | 17039-ND-P-DW-0203-08 | LV SWITCH GEAR                                                                                    | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 871                                                                                                                                                                                              | 20-XS-1060      | SHUTDOWN                                       | 17039-ND-P-DW-0203-08 | LV SWITCH GEAR                                                                                    | PSD    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 872                                                                                                                                                                                              | 20-X-1060       | START                                          | 17039-ND-P-DW-0203-08 | LV SWITCH GEAR                                                                                    | DCS    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 873                                                                                                                                                                                              | 20-X-1060       | STOP                                           | 17039-ND-P-DW-0203-08 | LV SWITCH GEAR                                                                                    | DCS    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 874                                                                                                                                                                                              | 20-PSH-1060A    | PRESSURE SWITCH HIGH                           | 17039-ND-P-DW-0203-08 | TRANSFORMER-A 100 KVA                                                                             | TCP    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 875                                                                                                                                                                                              | 20-TSH-1060A    | TEMPERATURE SWITCH HIGH                        | 17039-ND-P-DW-0203-08 | TRANSFORMER-A 100 KVA                                                                             | TCP    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 2" 900#       | SS316                              | *            | *         | -              | A    | -      |
| 876                                                                                                                                                                                              | 20-TSH-1060A    | TEMPERATURE SWITCH HIGH                        | 17039-ND-P-DW-0203-08 | TRANSFORMER-A 100 KVA                                                                             | TCP    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 2" 900#       | SS316                              | *            | *         | -              | A    | -      |
| 877                                                                                                                                                                                              | 20-LS-0443      | LEVEL SWITCH                                   | 17039-ND-P-DW-0203-08 | ND-MBM-A-1060                                                                                     | TCP    | DI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2" 900#       | SS316                              | *            | *         | -              | A    | -      |
| 878                                                                                                                                                                                              | 20-PSH-1060B    | PRESSURE SWITCH HIGH                           | 17039-ND-P-DW-0203-08 | TRANSFORMER-B 100 KVA                                                                             | TCP    | DI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 879                                                                                                                                                                                              | 20-TSH-1060B    | TEMPERATURE SWITCH HIGH                        | 17039-ND-P-DW-0203-08 | TRANSFORMER-B 100 KVA                                                                             | TCP    | DI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2" 900#       | SS316                              | *            | *         | -              | A    | -      |
| 880                                                                                                                                                                                              | 20-TSH-1060BB   | TEMPERATURE SWITCH HIGH                        | 17039-ND-P-DW-0203-08 | TRANSFORMER-B 100 KVA                                                                             | TCP    | DI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2" 900#       | SS316                              | *            | *         | -              | A    | -      |
| 881                                                                                                                                                                                              | 20-ILT/ILG-4504 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0203-08 | ND-MBM-A-1060                                                                                     | DCS    | AI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 882                                                                                                                                                                                              | 20-ILG-0442     | TRANSPARENT TYPE LEVEL INDICATOR               | 17039-ND-P-DW-0203-08 | ND-MBM-A-1060                                                                                     | N/A    | N/A       | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 883                                                                                                                                                                                              | 20-ILIT-0415    | DP TYPE LEVEL TRANSMITTER                      | 17039-ND-P-DW-0203-08 | ND-MBM-A-1060                                                                                     | PSD    | AI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 884                                                                                                                                                                                              | 20-TW-0414      | THERMOWELL                                     | 17039-ND-P-DW-0203-08 | ND-MBM-A-1060                                                                                     | N/A    | N/A       | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 885                                                                                                                                                                                              | 20-TIT-0414     | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0203-08 | ND-MBM-A-1060                                                                                     | DCS    | AI        | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 1/2" NPTM     | SS316                              | *            | *         | -              | A    | -      |
| 886                                                                                                                                                                                              | 44-ILV-4504     | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0203-08 | 2"-PW-44-4503-AC01                                                                                | N/A    | N/A       | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 1"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316    | *            | *         | -              | A    | -      |
| 887                                                                                                                                                                                              | 44-ILY-4504     | POSITIONER                                     | 17039-ND-P-DW-0203-08 | -                                                                                                 | DCS    | AO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 888                                                                                                                                                                                              | 44-SDV-1993     | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-08 | 2"-PW-44-4503-AC01                                                                                | N/A    | N/A       | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 889                                                                                                                                                                                              | 44-SXV-1993     | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-08 | N/A                                                                                               | PSD    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS 316                             | *            | *         | -              | A    | -      |
| 890                                                                                                                                                                                              | 44-ZSL-1993     | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-08 | N/A                                                                                               | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 891                                                                                                                                                                                              | 44-ZSH-1993     | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-08 | N/A                                                                                               | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 892                                                                                                                                                                                              | 20-SDV-1150     | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-08 | 2"-PW-44-4503-AC01                                                                                | N/A    | N/A       | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 893                                                                                                                                                                                              | 20-SXV-1150     | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-08 | N/A                                                                                               | PSD    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS 316                             | *            | *         | -              | A    | -      |
| 894                                                                                                                                                                                              | 20-ZSL-1150     | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-08 | N/A                                                                                               | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 895                                                                                                                                                                                              | 20-ZSH-1150     | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-08 | N/A                                                                                               | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                             | *            | *         | -              | A    | -      |
| 896                                                                                                                                                                                              | 42-FI-3801      | FLOW INDICATOR                                 | 17039-ND-P-DW-0203-08 | N/A                                                                                               | N/A    | N/A       | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 1/2" NPT      | SS316                              | *            | *         | -              | A    | -      |
| 897                                                                                                                                                                                              | 20-FV-1117      | FLOW CONTROL VALVE                             | 17039-ND-P-DW-0203-09 | 2"-PL-20-0456-AC01-1N                                                                             | N/A    | N/A       | 10                        | 150               | 5                            | 115                  | MPC-2 | 1"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 898                                                                                                                                                                                              | 20-FY-1117      | POSITIONER                                     | 17039-ND-P-DW-0203-09 | N/A                                                                                               | DCS    | AO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |
| 899                                                                                                                                                                                              | 20-PI-0419A     | PRESSURE INDICATOR                             | 17039-ND-P-DW-0203-09 | ND-PBA-1070A                                                                                      | N/A    | N/A       | 10                        | 150               | 5                            | 115                  | MPC-2 | 1/2" NPTM     | SS316                              | *            | *         | -              | A    | -      |
| 900                                                                                                                                                                                              | 20-PT-0420A     | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0203-09 | ND-PBA-1070A                                                                                      | PSD    | AI        | 10                        | 150               | 5                            | 115                  | MPC-2 | 1/2"NPT       | SS316                              | *            | *         | -              | A    | -      |
| 901                                                                                                                                                                                              | 20-FT-1117      | CORIOLIS TYPE FLOW TRANSMITTER                 | 17039-ND-P-DW-0203-09 | 3"-PL-20-0457-AC01                                                                                | DCS    | AI        | 10                        | 150               | 5                            | 115                  | MPC-2 | 3"/150#RF     | SS316                              | *            | *         | -              | A    | -      |
| 902                                                                                                                                                                                              | 20-XS-1070A     | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0203-09 | ND-PM-A-1070A                                                                                     | PSD    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 903                                                                                                                                                                                              | 20-XXS-1070A    | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0203-09 | ND-PM-A-1070A                                                                                     | ESD    | DO        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 904                                                                                                                                                                                              | 20-XA-1070A     | FAULT ALARM                                    | 17039-ND-P-DW-0203-09 | ND-PM-A-1070A                                                                                     | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |
| 905                                                                                                                                                                                              | 20-XI-1070A     | RUNNING                                        | 17039-ND-P-DW-0203-09 | ND-PM-A-1070A                                                                                     | DCS    | DI        | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | *</            |      |        |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------|-----------------------|------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                 | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |                              |                       |                              |        |          |                           |                   |                              |                      |       | REV NO. :      |                                    |              |           |                |      |        |  |
|                                                                                                                                                                                                                                                                 |                                                                                                   |                              |                       |                              |        |          |                           |                   |                              |                      |       | DATE :         |                                    |              |           |                |      |        |  |
| S.No                                                                                                                                                                                                                                                            | Tag No                                                                                            | INSTRUMENT DESCRIPTION       | P&ID NO.              | LINE / VESSEL NO.            | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 916                                                                                                                                                                                                                                                             | 20-XE-1070B                                                                                       | AVAILABLE                    | 17039-ND-P-DW-0203-09 | ND-PM-A-1070B                | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 917                                                                                                                                                                                                                                                             | 20-XB-1070B                                                                                       | TRIP FEEDBACK                | 17039-ND-P-DW-0203-09 | ND-PM-A-1070B                | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 918                                                                                                                                                                                                                                                             | 41-PSV-3728A                                                                                      | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0203-10 | 2"-HM-41-3734-BC01-1N        | N/A    | N/A      | 12/FV                     | 250               | 5.5                          | 200                  | CSC-3 | 1" D 2"/300#RF | SS316                              | *            | *         | -              | A    | -      |  |
| 919                                                                                                                                                                                                                                                             | 41-PSV-3728B                                                                                      | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0203-10 | 2"-HM-41-3734A-BC01-1N       | N/A    | N/A      | 12/FV                     | 250               | 5.5                          | 200                  | CSC-3 | 1" D 2"/300#RF | SS316                              | *            | *         | -              | A    | -      |  |
| 920                                                                                                                                                                                                                                                             | 41-SDV-3727                                                                                       | SHUTDOWN VALVE               | 17039-ND-P-DW-0203-10 | 4"-HM-41-3725-BC01-1N        | N/A    | N/A      | 12/FV                     | 250               | 5.5                          | 200                  | CSC-3 | 3"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 921                                                                                                                                                                                                                                                             | 41-SXV-3727                                                                                       | SOLENOID VALVE               | 17039-ND-P-DW-0203-10 | N/A                          | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 922                                                                                                                                                                                                                                                             | 41-ZIL-3727                                                                                       | LIMIT SWITCH LOW             | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |
| 923                                                                                                                                                                                                                                                             | 41-ZIH-3727                                                                                       | LIMIT SWITCH HIGH            | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |
| 924                                                                                                                                                                                                                                                             | 20-TV-0991                                                                                        | TEMPERATURE CONTROL VALVE    | 17039-ND-P-DW-0203-10 | 3"-HM-41-3729-BC01-1N        | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 925                                                                                                                                                                                                                                                             | 20-TY-0991                                                                                        | POSITIONER                   | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 926                                                                                                                                                                                                                                                             | 20-TW-0991                                                                                        | THERMOWELL                   | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |
| 927                                                                                                                                                                                                                                                             | 20-TT-0991                                                                                        | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | DCS    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 928                                                                                                                                                                                                                                                             | USH-0983A                                                                                         | FLAME DETECTOR               | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A<br>( TANK ROOF) | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 929                                                                                                                                                                                                                                                             | USH-0983B                                                                                         | FLAME DETECTOR               | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A<br>( TANK ROOF) | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 930                                                                                                                                                                                                                                                             | USH-0983C                                                                                         | FLAME DETECTOR               | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A<br>( TANK ROOF) | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 931                                                                                                                                                                                                                                                             | 20-LT-0986                                                                                        | RADAR TYPE LEVEL TRANSMITTER | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |
| 932                                                                                                                                                                                                                                                             | 20-LT-0988                                                                                        | RADAR TYPE LEVEL TRANSMITTER | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | DCS    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |
| 933                                                                                                                                                                                                                                                             | OSH-0984A                                                                                         | OPEN PATH TYPE GAS DETECTOR  | 17039-ND-P-DW-0203-10 | N/A                          | PSD    | AI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |
| 934                                                                                                                                                                                                                                                             | OSH-0984A                                                                                         | OPEN PATH TYPE GAS DETECTOR  | 17039-ND-P-DW-0203-10 | N/A                          | PSD    | AI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 935                                                                                                                                                                                                                                                             | 20-TW-0989                                                                                        | THERMOWELL                   | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |  |
| 936                                                                                                                                                                                                                                                             | 20-TI-0989                                                                                        | TEMPERATURE INDICATOR        | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 937                                                                                                                                                                                                                                                             | 20-TW-0990A                                                                                       | THERMOWELL                   | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |  |
| 938                                                                                                                                                                                                                                                             | 20-TT-0990A                                                                                       | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 939                                                                                                                                                                                                                                                             | 20-TW-0990B                                                                                       | THERMOWELL                   | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |  |
| 940                                                                                                                                                                                                                                                             | 20-TT-0990B                                                                                       | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 941                                                                                                                                                                                                                                                             | 20-TW-0990C                                                                                       | THERMOWELL                   | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |  |
| 942                                                                                                                                                                                                                                                             | 20-TT-0990C                                                                                       | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 943                                                                                                                                                                                                                                                             | 20-MOV-0978A                                                                                      | MOTOR OPERATED VALVE         | 17039-ND-P-DW-0203-10 | 4"-PL-20-0816-AC01           | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 944                                                                                                                                                                                                                                                             | 20-ZSL-0978A                                                                                      | OPEN FEEDBACK                | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 945                                                                                                                                                                                                                                                             | 20-ZSH-0978A                                                                                      | CLOSE FEEDBACK               | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 946                                                                                                                                                                                                                                                             | 20-SSR-0978A                                                                                      | REMOTE / LOCAL FEEDBACK      | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 947                                                                                                                                                                                                                                                             | 20-STR-0978A                                                                                      | OPEN COMMAND                 | 17039-ND-P-DW-0203-10 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 948                                                                                                                                                                                                                                                             | 20-STP-0978A                                                                                      | CLOSE COMMAND                | 17039-ND-P-DW-0203-10 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 949                                                                                                                                                                                                                                                             | 20-XLT-0978A                                                                                      | TRIP                         | 17039-ND-P-DW-0202-20 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 950                                                                                                                                                                                                                                                             | 20-MOV-0979A                                                                                      | MOTOR OPERATED VALVE         | 17039-ND-P-DW-0203-10 | 4"-PL-20-0817-AC01           | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 951                                                                                                                                                                                                                                                             | 20-ZSL-0979A                                                                                      | OPEN FEEDBACK                | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 952                                                                                                                                                                                                                                                             | 20-ZSH-0979A                                                                                      | CLOSE FEEDBACK               | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 953                                                                                                                                                                                                                                                             | 20-SSR-0979A                                                                                      | REMOTE / LOCAL FEEDBACK      | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 954                                                                                                                                                                                                                                                             | 20-STR-0979A                                                                                      | OPEN COMMAND                 | 17039-ND-P-DW-0203-10 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 955                                                                                                                                                                                                                                                             | 20-STP-0979A                                                                                      | CLOSE COMMAND                | 17039-ND-P-DW-0203-10 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 956                                                                                                                                                                                                                                                             | 20-XLT-0979A                                                                                      | TRIP                         | 17039-ND-P-DW-0203-10 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 957                                                                                                                                                                                                                                                             | 20-MOV-0980                                                                                       | MOTOR OPERATED VALVE         | 17039-ND-P-DW-0203-10 | 4"-PL-20-0822-AC01           | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 958                                                                                                                                                                                                                                                             | 20-ZSL-0980                                                                                       | OPEN FEEDBACK                | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 959                                                                                                                                                                                                                                                             | 20-ZSH-0980                                                                                       | CLOSE FEEDBACK               | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 960                                                                                                                                                                                                                                                             | 20-SSR-0980                                                                                       | REMOTE / LOCAL FEEDBACK      | 17039-ND-P-DW-0203-10 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 961                                                                                                                                                                                                                                                             | 20-STR-0980                                                                                       | OPEN COMMAND                 | 17039-ND-P-DW-0203-10 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 962                                                                                                                                                                                                                                                             | 20-STP-0980                                                                                       | CLOSE COMMAND                | 17039-ND-P-DW-0203-10 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 963                                                                                                                                                                                                                                                             | 20-XLT-0980                                                                                       | TRIP                         | 17039-ND-P-DW-0203-10 | N/A                          | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 964                                                                                                                                                                                                                                                             | 20-XXS-1001A                                                                                      | SHUTDOWN / TRIP              | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 965                                                                                                                                                                                                                                                             | 20-XA-1001A                                                                                       | FAULT ALARM                  | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 966                                                                                                                                                                                                                                                             | 20-XC-1001A                                                                                       | START / STOP                 | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 967                                                                                                                                                                                                                                                             | 20-XI-1001A                                                                                       | RUNNING                      | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 968                                                                                                                                                                                                                                                             | 20-XE-1001A                                                                                       | AVAILABLE                    | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 969                                                                                                                                                                                                                                                             | 20-XS-1001A                                                                                       | SHUTDOWN / TRIP              | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 970                                                                                                                                                                                                                                                             | 20-XB-1001A                                                                                       | TRIP FEEDBACK                | 17039-ND-P-DW-0203-10 | ND-BBJ-1120A                 | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |  |
| 971                                                                                                                                                                                                                                                             | 41-SDV-3730                                                                                       | SHUTDOWN VALVE               | 17039-ND-P-DW-0203-11 | 3"-HM-41-3727-BC01-1N        | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 3"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 972                                                                                                                                                                                                                                                             | 41-SXV-3730                                                                                       | SOLENOID VALVE               | 17039-ND-P-DW-0203-11 | N/A                          | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 973                                                                                                                                                                                                                                                             | 41-ZSL-3730                                                                                       | LIMIT SWITCH LOW             | 17039-ND-P-DW-0203-11 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |
| 974                                                                                                                                                                                                                                                             | 41-ZSH-3730                                                                                       | LIMIT SWITCH HIGH            | 17039-ND-P-DW-0203-11 | N/A                          | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |
| 975                                                                                                                                                                                                                                                             | 20-TV-0992                                                                                        | TEMPERATURE CONTROL VALVE    | 17039-ND-P-DW-0203-11 | 3"-HM-41-3736-BC01-1N        | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 976                                                                                                                                                                                                                                                             | 20-TY-0992                                                                                        | POSITIONER                   | 17039-ND-P-DW-0203-11 | N/A                          | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                                                                   |              |                              |                                   | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                    |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                                                                   |              |                              |                                   |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                    |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                                                              | Tag No       | INSTRUMENT DESCRIPTION       | P&ID NO.                          | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 977                                                                                                                                                                                                                                                               | 20-TW-0992   | THERMOWELL                   | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |
| 978                                                                                                                                                                                                                                                               | 20-TT-0992   | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | DCS    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |
| 979                                                                                                                                                                                                                                                               | USH-0983A    | FLAME DETECTOR               | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B<br>( TANK ROOF)                                                                      | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 980                                                                                                                                                                                                                                                               | USH-0983B    | FLAME DETECTOR               | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B<br>( TANK ROOF)                                                                      | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 981                                                                                                                                                                                                                                                               | USH-0983C    | FLAME DETECTOR               | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B<br>( TANK ROOF)                                                                      | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 982                                                                                                                                                                                                                                                               | 20-LT-0995   | RADAR TYPE LEVEL TRANSMITTER | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 983                                                                                                                                                                                                                                                               | 20-LT-0999   | RADAR TYPE LEVEL TRANSMITTER | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | DCS    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 984                                                                                                                                                                                                                                                               | OSH-1000A    | OPEN PATH TYPE GAS DETECTOR  | 17039-ND-P-DW-0203-11             | N/A                                                                                               | PSD    | AI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 985                                                                                                                                                                                                                                                               | OSH-1000B    | OPEN PATH TYPE GAS DETECTOR  | 17039-ND-P-DW-0203-11             | N/A                                                                                               | PSD    | AI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 986                                                                                                                                                                                                                                                               | 20-TW-0997   | THERMOWELL                   | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 987                                                                                                                                                                                                                                                               | 20-TI-0997   | TEMPERATURE INDICATOR        | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |
| 988                                                                                                                                                                                                                                                               | 20-TW-0998A  | THERMOWELL                   | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 989                                                                                                                                                                                                                                                               | 20-TT-0998A  | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |
| 990                                                                                                                                                                                                                                                               | 20-TW-0998B  | THERMOWELL                   | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 991                                                                                                                                                                                                                                                               | 20-TT-0998B  | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |
| 992                                                                                                                                                                                                                                                               | 20-TW-0998C  | THERMOWELL                   | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |
| 993                                                                                                                                                                                                                                                               | 20-TT-0998C  | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | PSD    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |
| 994                                                                                                                                                                                                                                                               | 20-MOV-0978B | MOTOR OPERATED VALVE         | 17039-ND-P-DW-0203-11             | 4"-PL-20-0818-AC01                                                                                | N/A    | N/A      | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 995                                                                                                                                                                                                                                                               | 20-ZSL-0978B | OPEN FEEDBACK                | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 996                                                                                                                                                                                                                                                               | 20-ZSH-0978B | CLOSE FEEDBACK               | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 997                                                                                                                                                                                                                                                               | 20-SSR-0978B | REMOTE / LOCAL FEEDBACK      | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 998                                                                                                                                                                                                                                                               | 20-STR-0978B | OPEN COMMAND                 | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 999                                                                                                                                                                                                                                                               | 20-STP-0978B | CLOSE COMMAND                | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1000                                                                                                                                                                                                                                                              | 20-XLT-0978B | TRIP                         | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1001                                                                                                                                                                                                                                                              | 20-MOV-0979B | MOTOR OPERATED VALVE         | 17039-ND-P-DW-0203-11             | 4"-PL-20-0820-AC01                                                                                | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1002                                                                                                                                                                                                                                                              | 20-ZSL-0979B | OPEN FEEDBACK                | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 1003                                                                                                                                                                                                                                                              | 20-ZSH-0979B | CLOSE FEEDBACK               | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | SS 316                             | *            | *         | -              | A    | -      |
| 1004                                                                                                                                                                                                                                                              | 20-SSR-0979B | REMOTE / LOCAL FEEDBACK      | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1005                                                                                                                                                                                                                                                              | 20-STR-0979B | OPEN COMMAND                 | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1006                                                                                                                                                                                                                                                              | 20-STP-0979B | CLOSE COMMAND                | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1007                                                                                                                                                                                                                                                              | 20-XLT-0979B | TRIP                         | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1008                                                                                                                                                                                                                                                              | 20-MOV-0981  | MOTOR OPERATED VALVE         | 17039-ND-P-DW-0203-11             | 4"-PL-20-0825-AC01                                                                                | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | CSC-3 | 4"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1009                                                                                                                                                                                                                                                              | 20-ZSL-0981  | OPEN FEEDBACK                | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1010                                                                                                                                                                                                                                                              | 20-ZSH-0981  | CLOSE FEEDBACK               | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1011                                                                                                                                                                                                                                                              | 20-SSR-0981  | REMOTE / LOCAL FEEDBACK      | 17039-ND-P-DW-0203-11             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1012                                                                                                                                                                                                                                                              | 20-STR-0981  | OPEN COMMAND                 | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1013                                                                                                                                                                                                                                                              | 20-STP-0981  | CLOSE COMMAND                | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1014                                                                                                                                                                                                                                                              | 20-XLT-0981  | TRIP                         | 17039-ND-P-DW-0203-11             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1015                                                                                                                                                                                                                                                              | 41-PSV-3729A | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0203-11             | 2"-HM-41-3737-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 5.5                          | 200                  | CSC-3 | 1" D 2"/300#RF | SS316                              | *            | *         | -              | A    | -      |
| 1016                                                                                                                                                                                                                                                              | 41-PSV-3729B | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0203-11             | 2"-HM-41-3737A-BC01-3N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 5.5                          | 200                  | CSC-3 | 1" D 2"/300#RF | SS316                              | *            | *         | -              | A    | -      |
| 1017                                                                                                                                                                                                                                                              | 20-XXS-1001B | SHUTDOWN / TRIP              | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1018                                                                                                                                                                                                                                                              | 20-XA-1001B  | FAULT ALARM                  | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1019                                                                                                                                                                                                                                                              | 20-XI-1001B  | RUNNING                      | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1020                                                                                                                                                                                                                                                              | 20-XC-1001B  | START / STOP                 | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1021                                                                                                                                                                                                                                                              | 20-XE-1001B  | AVAILABLE                    | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1022                                                                                                                                                                                                                                                              | 20-XS-1001B  | SHUTDOWN / TRIP              | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1023                                                                                                                                                                                                                                                              | 20-XB-1001B  | TRIP FEEDBACK                | 17039-ND-P-DW-0203-11             | ND-BBJ-1120B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A            | N/A                                | *            | *         | -              | A    | -      |
| 1024                                                                                                                                                                                                                                                              | 20-FV-1012A  | FLOW CONTROL VALVE           | 17039-ND-P-DW-0203-12<br>(1 OF 2) | 2"-PL-20-0841-AC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 56                   | MPC-2 | 1"/150#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1025                                                                                                                                                                                                                                                              | 20-FY-1012A  | POSITIONER                   | 17039-ND-P-DW-0203-12<br>(1 OF 2) | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |
| 1026                                                                                                                                                                                                                                                              | 20-PI-1010A  | PRESSURE INDICATOR           | 17039-ND-P-DW-0203-12<br>(1 OF 2) | 3"-PL-20-0838-AC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 56                   | MPC-2 | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |
| 1027                                                                                                                                                                                                                                                              | 20-PT-1011A  | PRESSURE TRANSMITTER         | 17039-ND-P-DW-0203-12<br>(1 OF 2) | 3"-PL-20-0838-AC01                                                                                | PSD    | AI       |                           |                   |                              |                      |       |                |                                    |              |           |                |      |        |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                          |              |                                |                                   | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |               |                                    |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                          |              |                                |                                   |                                                                                                   |        |          |                           |                   |                              |                      |       |               |                                    |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                                                                                                                                                                                                                                     | Tag No       | INSTRUMENT DESCRIPTION         | P&ID NO.                          | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 1038                                                                                                                                                                                                                                                                                                                                                                                                     | 20-PI-1010B  | PRESSURE INDICATOR             | 17039-ND-P-DW-0203-12<br>(1 OF 2) | 3"-PL-20-0839-AC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 56                   | MPC-2 | 1/2" NPTM     | SS316                              | *            | *         | -              | A    | -      |  |
| 1039                                                                                                                                                                                                                                                                                                                                                                                                     | 20-PT-1011B  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0203-12<br>(1 OF 2) | 3"-PL-20-0839-AC01                                                                                | PSD    | AI       | 15                        | 90                | 10                           | 56                   | MPC-2 | 1/2"NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1040                                                                                                                                                                                                                                                                                                                                                                                                     | 20-FT-1012B  | CORIOLIS TYPE FLOW TRANSMITTER | 17039-ND-P-DW-0203-12<br>(1 OF 2) | 3"-PL-20-0838-AC01                                                                                | DCS    | AI       | 15                        | 90                | 10                           | 56                   | MPC-2 | 3"/150#RF     | SS316                              | *            | *         | -              | A    | -      |  |
| 1041                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XS-1130B  | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-12<br>(1 OF 2) | ND-PM-1130B(MCC)                                                                                  | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1042                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XXS-1130B | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-12<br>(1 OF 2) | ND-PM-1130B(MCC)                                                                                  | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1043                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XA-1130B  | FAULT ALARM                    | 17039-ND-P-DW-0203-12<br>(1 OF 2) | ND-PM-1130B(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1044                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XI-1130B  | RUNNING                        | 17039-ND-P-DW-0203-12<br>(1 OF 2) | ND-PM-1130B(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1045                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XC-1130B  | START / STOP                   | 17039-ND-P-DW-0203-12<br>(1 OF 2) | ND-PM-1130B(MCC)                                                                                  | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1046                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XE-1130B  | AVAILABLE                      | 17039-ND-P-DW-0203-12<br>(1 OF 2) | ND-PM-1130B(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1047                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XB-1130B  | TRIP FEEDBACK                  | 17039-ND-P-DW-0203-12<br>(1 OF 2) | ND-PM-1130B(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1048                                                                                                                                                                                                                                                                                                                                                                                                     | 20-PI-1010C  | PRESSURE INDICATOR             | 17039-ND-P-DW-0203-12<br>(2 OF 2) | 3"-PL-20-0839-BC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 56                   | MPC-2 | 1/2" NPTM     | SS316                              | *            | *         | -              | A    | -      |  |
| 1049                                                                                                                                                                                                                                                                                                                                                                                                     | 20-PT-1011C  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0203-12<br>(2 OF 2) | 3"-PL-20-0839-BC01                                                                                | PSD    | AI       | 15                        | 90                | 10                           | 56                   | MPC-2 | 1/2"NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1050                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XS-1130C  | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130C(MCC)                                                                                  | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1051                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XXS-1130C | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130C(MCC)                                                                                  | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1052                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XA-1130C  | FAULT ALARM                    | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130C(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1053                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XI-1130C  | RUNNING                        | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130C(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1054                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XC-1130C  | START / STOP                   | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130C(MCC)                                                                                  | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1055                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XE-1130C  | AVAILABLE                      | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130C(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1056                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XB-1130C  | TRIP FEEDBACK                  | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130C(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1057                                                                                                                                                                                                                                                                                                                                                                                                     | 20-PI-1010D  | PRESSURE INDICATOR             | 17039-ND-P-DW-0203-12<br>(2 OF 2) | 3"-PL-20-0840-BC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 56                   | MPC-2 | 1/2" NPTM     | SS316                              | *            | *         | -              | A    | -      |  |
| 1058                                                                                                                                                                                                                                                                                                                                                                                                     | 20-PT-1011D  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0203-12<br>(2 OF 2) | 3"-PL-20-0840-BC01                                                                                | PSD    | AI       | 15                        | 90                | 10                           | 56                   | MPC-2 | 1/2"NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1059                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XS-1130D  | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130D(MCC)                                                                                  | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1060                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XXS-1130D | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130D(MCC)                                                                                  | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1061                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XA-1130D  | FAULT ALARM                    | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130D(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1062                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XI-1130D  | RUNNING                        | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130D(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1063                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XC-1130D  | START / STOP                   | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130D(MCC)                                                                                  | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1064                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XE-1130D  | AVAILABLE                      | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130D(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1065                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XB-1130D  | TRIP FEEDBACK                  | 17039-ND-P-DW-0203-12<br>(2 OF 2) | ND-PM-1130D(MCC)                                                                                  | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1066                                                                                                                                                                                                                                                                                                                                                                                                     | 20-FT-1012D  | CORIOLIS TYPE FLOW TRANSMITTER | 17039-ND-P-DW-0203-12<br>(2 OF 2) | 3"-PL-20-8640-AC01                                                                                | DCS    | AI       | 15                        | 90                | 10                           | 56                   | MPC-2 | 3"/150#RF     | SS316                              | *            | *         | -              | A    | -      |  |
| 1067                                                                                                                                                                                                                                                                                                                                                                                                     | 20-FT-1012C  | CORIOLIS TYPE FLOW TRANSMITTER | 17039-ND-P-DW-0203-12<br>(2 OF 2) | 3"-PL-20-8639-AC01                                                                                | DCS    | AI       | 15                        | 90                | 10                           | 56                   | MPC-2 | 3"/150#RF     | SS316                              | *            | *         | -              | A    | -      |  |
| 1068                                                                                                                                                                                                                                                                                                                                                                                                     | 20-FV-1012C  | FLOW CONTROL VALVE             | 17039-ND-P-DW-0203-12<br>(2 OF 2) | 2"-PL-20-0827-AC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 56                   | MPC-2 | 1"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1069                                                                                                                                                                                                                                                                                                                                                                                                     | 20-FY-1012C  | POSITIONER                     | 17039-ND-P-DW-0203-12<br>(2 OF 2) | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1070                                                                                                                                                                                                                                                                                                                                                                                                     | 20-FV-1012D  | FLOW CONTROL VALVE             | 17039-ND-P-DW-0203-12<br>(2 OF 2) | 2"-PL-20-0827-AC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 56                   | MPC-2 | 1"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1071                                                                                                                                                                                                                                                                                                                                                                                                     | 20-FY-1012D  | POSITIONER                     | 17039-ND-P-DW-0203-12<br>(2 OF 2) | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1072                                                                                                                                                                                                                                                                                                                                                                                                     | 24-MOV-1013A | MOTOR OPERATED VALVE           | 17039-ND-P-DW-0203-13             | 4"-PL-20-0842-DC01                                                                                | N/A    | N/A      | 25/FV                     | 85                | 18                           | 51                   | MPC-2 | 4"/300#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1073                                                                                                                                                                                                                                                                                                                                                                                                     | 24-ZSL-1013A | OPEN FEEDBACK                  | 17039-ND-P-DW-0203-13             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1074                                                                                                                                                                                                                                                                                                                                                                                                     | 24-ZSH-1013A | CLOSE FEEDBACK                 | 17039-ND-P-DW-0203-13             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1075                                                                                                                                                                                                                                                                                                                                                                                                     | 24-SSR-1013A | REMOTE / LOCAL FEEDBACK        | 17039-ND-P-DW-0203-13             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1076                                                                                                                                                                                                                                                                                                                                                                                                     | 24-STR-1013A | OPEN COMMAND                   | 17039-ND-P-DW-0203-13             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1077                                                                                                                                                                                                                                                                                                                                                                                                     | 24-STP-1013A | CLOSE COMMAND                  | 17039-ND-P-DW-0203-13             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1078                                                                                                                                                                                                                                                                                                                                                                                                     | 20-XLT-1013A | TRIP                           | 17039-ND-P-DW-0203-13             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1079                                                                                                                                                                                                                                                                                                                                                                                                     | 24-MOV-1013B | MOTOR OPERATED VALVE           | 17039-ND-P-DW-0203-13             | 4"-PL-20-0843-DC01                                                                                | N/A    | N/A      | 25/FV                     | 85                | 18                           | 51                   | MPC-2 | 4"/300#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1080                                                                                                                                                                                                                                                                                                                                                                                                     | 24-ZSL-1013B | OPEN FEEDBACK                  | 17039-ND-P-DW-0203-13             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1081                                                                                                                                                                                                                                                                                                                                                                                                     | 24-ZSH-1013B | CLOSE FEEDBACK                 | 17039-ND-P-DW-0203-13             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1082                                                                                                                                                                                                                                                                                                                                                                                                     | 24-SSR-1013B | REMOTE / LOCAL FEEDBACK        | 17039-ND-P-DW-0203-13             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1083                                                                                                                                                                                                                                                                                                                                                                                                     | 24-STR-1013B | OPEN COMMAND                   | 17039-ND-P-DW-0203-13             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1084                                                                                                                                                                                                                                                                                                                                                                                                     | 24-STP-1013B | CLOSE COMMAND                  | 17039-ND-P-DW-0203-13             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1085                                                                                                                                                                                                                                                                                                                                                                                                     | 24-XLT-1013B | TRIP                           | 17039-ND-P-DW-0203-13             | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1086                                                                                                                                                                                                                                                                                                                                                                                                     | 24-MOV-1013C | MOTOR OPERATED VALVE           | 17039-ND-P-DW-0203-13             | 4"-PL-20-0844-DC01                                                                                | N/A    | N/A      | 25/FV                     | 85                | 18                           | 51                   | MPC-2 | 4"/300#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1087                                                                                                                                                                                                                                                                                                                                                                                                     | 24-ZSL-1013C | OPEN FEEDBACK                  | 17039-ND-P-DW-0203-13             | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------------------|------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                         |              |                           |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                            |                                    |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                         |              |                           |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                            |                                    |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                    | Tag No       | INSTRUMENT DESCRIPTION    | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING              | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 1099                                                                                                                                                                                                                    | 24-XLT-1013D | TRIP                      | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1100                                                                                                                                                                                                                    | 24-MOV-1016A | MOTOR OPERATED VALVE      | 17039-ND-P-DW-0203-13 | 4"-PL-20-0850-DC01                                                                                | N/A    | N/A      | 25/FV                     | 85                | 18                           | 51                   | MPC-2 | 3"/300#RF                  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1101                                                                                                                                                                                                                    | 24-ZSL-1016A | OPEN FEEDBACK             | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1102                                                                                                                                                                                                                    | 24-ZSH-1016A | CLOSE FEEDBACK            | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1103                                                                                                                                                                                                                    | 24-SSR-1016A | REMOTE / LOCAL FEEDBACK   | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1104                                                                                                                                                                                                                    | 24-STR-1016A | OPEN COMMAND              | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1105                                                                                                                                                                                                                    | 24-STP-1016A | CLOSE COMMAND             | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1106                                                                                                                                                                                                                    | 24-XLT-1016A | TRIP                      | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1107                                                                                                                                                                                                                    | 24-MOV-1016B | MOTOR OPERATED VALVE      | 17039-ND-P-DW-0203-13 | 4"-PL-20-0851-DC01                                                                                | N/A    | N/A      | 25/FV                     | 85                | 18                           | 51                   | MPC-2 | 3"/300#RF                  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1108                                                                                                                                                                                                                    | 24-ZSL-1016B | OPEN FEEDBACK             | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1109                                                                                                                                                                                                                    | 24-ZSH-1016B | CLOSE FEEDBACK            | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1110                                                                                                                                                                                                                    | 24-SSR-1016B | REMOTE / LOCAL FEEDBACK   | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1111                                                                                                                                                                                                                    | 24-STR-1016B | OPEN COMMAND              | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1112                                                                                                                                                                                                                    | 24-STP-1016B | CLOSE COMMAND             | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1113                                                                                                                                                                                                                    | 24-XLT-1016B | TRIP                      | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1114                                                                                                                                                                                                                    | 24-MOV-1016C | MOTOR OPERATED VALVE      | 17039-ND-P-DW-0203-13 | 4"-PL-20-0852-DC01                                                                                | N/A    | N/A      | 25/FV                     | 85                | 18                           | 51                   | MPC-2 | 3"/300#RF                  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1115                                                                                                                                                                                                                    | 24-ZSL-1016C | OPEN FEEDBACK             | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1116                                                                                                                                                                                                                    | 24-ZSH-1016C | CLOSE FEEDBACK            | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1117                                                                                                                                                                                                                    | 24-SSR-1016C | REMOTE / LOCAL FEEDBACK   | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1118                                                                                                                                                                                                                    | 24-STR-1016C | OPEN COMMAND              | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1119                                                                                                                                                                                                                    | 24-STP-1016C | CLOSE COMMAND             | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1120                                                                                                                                                                                                                    | 24-XLT-1016C | TRIP                      | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1121                                                                                                                                                                                                                    | 24-MOV-1016D | MOTOR OPERATED VALVE      | 17039-ND-P-DW-0203-13 | 4"-PL-20-0842-DC01                                                                                | N/A    | N/A      | 25/FV                     | 85                | 18                           | 51                   | MPC-2 | 3"/300#RF                  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1122                                                                                                                                                                                                                    | 24-ZSL-1016C | OPEN FEEDBACK             | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1123                                                                                                                                                                                                                    | 24-ZSH-1016D | CLOSE FEEDBACK            | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1124                                                                                                                                                                                                                    | 24-SSR-1016D | REMOTE / LOCAL FEEDBACK   | 17039-ND-P-DW-0203-13 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1125                                                                                                                                                                                                                    | 24-STR-1016D | OPEN COMMAND              | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1126                                                                                                                                                                                                                    | 24-STP-1016D | CLOSE COMMAND             | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1127                                                                                                                                                                                                                    | 24-XLT-1016D | TRIP                      | 17039-ND-P-DW-0203-13 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | N/A                                | *            | *         | -              | A    | -      |
| 1128                                                                                                                                                                                                                    | 20-PI-1014A  | PRESSURE INDICATOR        | 17039-ND-P-DW-0203-13 | 4"-PL-20-0845-DC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2" NPTM                  | SS316                              | *            | *         | -              | A    | -      |
| 1129                                                                                                                                                                                                                    | 20-PT-1015A  | PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-13 | 4"-PL-20-0845-DC01                                                                                | PSD    | AI       | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2"NPT                    | SS316                              | *            | *         | -              | A    | -      |
| 1130                                                                                                                                                                                                                    | 20-PSV-0933A | PRESSURE SAFETY VALVE     | 17039-ND-P-DW-0203-13 | 2"-PL-20-0850-DC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1 1/2"/900#RTJ D 2"/300#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1131                                                                                                                                                                                                                    | 20-PI-1014B  | PRESSURE INDICATOR        | 17039-ND-P-DW-0203-13 | 4"-PL-20-0846-DC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2" NPTM                  | SS316                              | *            | *         | -              | A    | -      |
| 1132                                                                                                                                                                                                                    | 20-PT-1015B  | PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-13 | 4"-PL-20-0846-DC01                                                                                | PSD    | AI       | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2"NPT                    | SS316                              | *            | *         | -              | A    | -      |
| 1133                                                                                                                                                                                                                    | 20-PSV-0933B | PRESSURE SAFETY VALVE     | 17039-ND-P-DW-0203-13 | 2"-PL-20-0851-DC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1 1/2"/900#RTJ D 2"/300#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1134                                                                                                                                                                                                                    | 20-PI-1014C  | PRESSURE INDICATOR        | 17039-ND-P-DW-0203-13 | 4"-PL-20-0847-DC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2" NPTM                  | SS316                              | *            | *         | -              | A    | -      |
| 1135                                                                                                                                                                                                                    | 20-PT-1015C  | PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-13 | 4"-PL-20-0847-DC01                                                                                | PSD    | AI       | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2"NPT                    | SS316                              | *            | *         | -              | A    | -      |
| 1136                                                                                                                                                                                                                    | 20-PSV-0933C | PRESSURE SAFETY VALVE     | 17039-ND-P-DW-0203-13 | 2"-PL-20-0852-DC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1 1/2"/900#RTJ D 2"/300#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1137                                                                                                                                                                                                                    | 20-PI-1014D  | PRESSURE INDICATOR        | 17039-ND-P-DW-0203-13 | 4"-PL-20-8642-DC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2" NPTM                  | SS316                              | *            | *         | -              | A    | -      |
| 1138                                                                                                                                                                                                                    | 20-PT-1015D  | PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-13 | 4"-PL-20-8642-DC01                                                                                | PSD    | AI       | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2"NPT                    | SS316                              | *            | *         | -              | A    | -      |
| 1139                                                                                                                                                                                                                    | 20-PSV-0933D | PRESSURE SAFETY VALVE     | 17039-ND-P-DW-0203-13 | 2"-PL-20-8643-DC01                                                                                | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1 1/2"/900#RTJ D 2"/300#RF | SS316                              | *            | *         | -              | A    | -      |
| 1140                                                                                                                                                                                                                    | 42-FI-2411   | FLOW INDICATOR            | 17039-ND-P-DW-0203-13 | 1/2"-CK-42-3865-GT20                                                                              | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2" NPT                   | SS316                              | *            | *         | -              | A    | -      |
| 1141                                                                                                                                                                                                                    | 42-FI-2412   | FLOW INDICATOR            | 17039-ND-P-DW-0203-13 | 1/2"-CK-42-3865-GT20                                                                              | N/A    | N/A      | 100                       | 90                | 85                           | 56                   | MPC-2 | 1/2" NPT                   | SS316                              | *            | *         | -              | A    | -      |
| 1142                                                                                                                                                                                                                    | 45-SDV-3668  | SHUTDOWN VALVE            | 17039-ND-P-DW-0203-14 | 3"-HM-41-8611-BC01-1N                                                                             | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | MPC-2 | 3"/300#RF                  | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1143                                                                                                                                                                                                                    | 45-SXV-3668  | SOLENOID VALVE            | 17039-ND-P-DW-0203-14 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                   | SS316                              | *            | *         | -              | A    | -      |
| 1144                                                                                                                                                                                                                    | 45-ZSL-3668  | LIMIT SWITCH LOW          | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | SS 316                             | *            | *         | -              | A    | -      |
| 1145                                                                                                                                                                                                                    | 45-ZSH-3668  | LIMIT SWITCH HIGH         | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                        | SS 316                             | *            | *         | -              | A    | -      |
| 1146                                                                                                                                                                                                                    | 41-PSV-0121A | PRESSURE SAFETY VALVE     | 17039-ND-P-DW-0203-14 | 2"-HM-41-3671-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 5.5                          | 200                  | MPC-2 | 1" D 2"/300#RF             | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1147                                                                                                                                                                                                                    | 41-PSV-0121B | PRESSURE SAFETY VALVE     | 17039-ND-P-DW-0203-14 | 2"-HM-41-3671A-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 5.5                          | 200                  | MPC-2 | 1" D 2"/300#RF             | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |
| 1148                                                                                                                                                                                                                    | 20-TV-0431   | TEMPERATURE CONTROL VALVE | 17039-ND-P-DW-0       |                                                                                                   |        |          |                           |                   |                              |                      |       |                            |                                    |              |           |                |      |        |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                |              |                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |               |                                    |              | REV NO. : |                |      |        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                |              |                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |               |                                    |              | DATE :    |                |      |        |  |
| S.No                                                                                                                                                                                                                                                                                                                                                                                           | Tag No       | INSTRUMENT DESCRIPTION         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 1160                                                                                                                                                                                                                                                                                                                                                                                           | 20-TW-0431   | THERMOWELL                     | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | MPC-2 | 2"/150#RF     | SS316                              | *            | *         | -              | A    | -      |  |
| 1161                                                                                                                                                                                                                                                                                                                                                                                           | 20-TIT-0431  | TEMPERATURE TRANSMITTER        | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | DCS    | AI       | FOW+0.07                  | 90                | ATM                          | 55                   | MPC-2 | 1/2"NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 1162                                                                                                                                                                                                                                                                                                                                                                                           | 20-MOV-1120  | MOTOR OPERATED VALVE           | 17039-ND-P-DW-0203-14 | 8"-PL-20-0459-AC01                                                                                | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | MPC-2 | 8"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1163                                                                                                                                                                                                                                                                                                                                                                                           | 20-ZSL-1120  | OPEN FEEDBACK                  | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1164                                                                                                                                                                                                                                                                                                                                                                                           | 20-ZSH-1120  | CLOSE FEEDBACK                 | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1165                                                                                                                                                                                                                                                                                                                                                                                           | 20-SSR-1120  | REMOTE / LOCAL FEEDBACK        | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1166                                                                                                                                                                                                                                                                                                                                                                                           | 20-STR-1120  | OPEN COMMAND                   | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1167                                                                                                                                                                                                                                                                                                                                                                                           | 20-STP-1120  | CLOSE COMMAND                  | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1168                                                                                                                                                                                                                                                                                                                                                                                           | 24-XLT-1120  | TRIP                           | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1169                                                                                                                                                                                                                                                                                                                                                                                           | 20-MOV-1119A | MOTOR OPERATED VALVE           | 17039-ND-P-DW-0203-14 | 6"-PL-20-0458-AC01                                                                                | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | MPC-2 | 6"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1170                                                                                                                                                                                                                                                                                                                                                                                           | 20-ZSL-1119A | OPEN FEEDBACK                  | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1171                                                                                                                                                                                                                                                                                                                                                                                           | 20-ZSH-1119A | CLOSE FEEDBACK                 | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1172                                                                                                                                                                                                                                                                                                                                                                                           | 20-SSR-1119A | REMOTE / LOCAL FEEDBACK        | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1173                                                                                                                                                                                                                                                                                                                                                                                           | 20-STR-1119A | OPEN COMMAND                   | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1174                                                                                                                                                                                                                                                                                                                                                                                           | 20-STP-1119A | CLOSE COMMAND                  | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1175                                                                                                                                                                                                                                                                                                                                                                                           | 24-XLT-1119A | TRIP                           | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1176                                                                                                                                                                                                                                                                                                                                                                                           | 20-MOV-1119B | MOTOR OPERATED VALVE           | 17039-ND-P-DW-0203-14 | 3"-PL-20-0391-AC01                                                                                | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | MPC-2 | 3"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1177                                                                                                                                                                                                                                                                                                                                                                                           | 20-ZSL-1119B | OPEN FEEDBACK                  | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1178                                                                                                                                                                                                                                                                                                                                                                                           | 20-ZSH-1119B | CLOSE FEEDBACK                 | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1179                                                                                                                                                                                                                                                                                                                                                                                           | 20-SSR-1119B | REMOTE / LOCAL FEEDBACK        | 17039-ND-P-DW-0203-14 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1180                                                                                                                                                                                                                                                                                                                                                                                           | 20-STR-1119B | OPEN COMMAND                   | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1181                                                                                                                                                                                                                                                                                                                                                                                           | 20-STP-1119B | CLOSE COMMAND                  | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1182                                                                                                                                                                                                                                                                                                                                                                                           | 24-XLT-1119B | TRIP                           | 17039-ND-P-DW-0203-14 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1183                                                                                                                                                                                                                                                                                                                                                                                           | 20-PVSV-0429 | PRESSURE VACCUM SAFETY VALVE   | 17039-ND-P-DW-0203-14 | N/A                                                                                               | N/A    | N/A      | FOW+0.07                  | 90                | ATM                          | 55                   | MPC-2 | 6"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1184                                                                                                                                                                                                                                                                                                                                                                                           | 20-XXS-1001C | SHUTDOWN / TRIP                | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1185                                                                                                                                                                                                                                                                                                                                                                                           | 20-XA-1001C  | FAULT ALARM                    | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1186                                                                                                                                                                                                                                                                                                                                                                                           | 20-XI-1001C  | RUNNING                        | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1187                                                                                                                                                                                                                                                                                                                                                                                           | 20-XC-1001C  | START / STOP                   | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1188                                                                                                                                                                                                                                                                                                                                                                                           | 20-XE-1001C  | AVAILABLE                      | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1189                                                                                                                                                                                                                                                                                                                                                                                           | 20-XS-1001C  | SHUTDOWN / TRIP                | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1190                                                                                                                                                                                                                                                                                                                                                                                           | 20-XB-1001C  | TRIP FEEDBACK                  | 17039-ND-P-DW-0203-14 | ND-BBJ-1090                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | CSC-3 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1191                                                                                                                                                                                                                                                                                                                                                                                           | 20-FV-0475   | FLOW CONTROL VALVE             | 17039-ND-P-DW-0203-15 | 3"-PL-20-0391-BC01                                                                                | N/A    | N/A      | 10                        | 90                | 5                            | 55                   | MPC-2 | 2"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1192                                                                                                                                                                                                                                                                                                                                                                                           | 20-FY-0475   | POSITIONER                     | 17039-ND-P-DW-0203-15 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                              | *            | *         | -              | A    | -      |  |
| 1193                                                                                                                                                                                                                                                                                                                                                                                           | 20-PI-0471A  | PRESSURE INDICATOR             | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | N/A    | N/A      | 10                        | 90                | 5                            | 55                   | MPC-2 | 1/2" NPTM     | SS316                              | *            | *         | -              | A    | -      |  |
| 1194                                                                                                                                                                                                                                                                                                                                                                                           | 20-PT-0472A  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | PSD    | AI       | 10                        | 90                | 5                            | 55                   | MPC-2 | 1/2"NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1195                                                                                                                                                                                                                                                                                                                                                                                           | 20-FT-0475   | CORIOLIS TYPE FLOW TRANSMITTER | 17039-ND-P-DW-0203-15 | 6"-PL-20-0393-BC01                                                                                | DCS    | AI       | 10                        | 90                | 5                            | 55                   | MPC-2 | 6"/150#RF     | SS316                              | *            | *         | -              | A    | -      |  |
| 1196                                                                                                                                                                                                                                                                                                                                                                                           | 20-XS-1100A  | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1197                                                                                                                                                                                                                                                                                                                                                                                           | 20-XXS-1100A | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1198                                                                                                                                                                                                                                                                                                                                                                                           | 20-XA-1100A  | FAULT ALARM                    | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1199                                                                                                                                                                                                                                                                                                                                                                                           | 20-XI-1100A  | RUNNING                        | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1200                                                                                                                                                                                                                                                                                                                                                                                           | 20-XC-1100A  | START / STOP                   | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1201                                                                                                                                                                                                                                                                                                                                                                                           | 20-XE-1100A  | AVAILABLE                      | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1202                                                                                                                                                                                                                                                                                                                                                                                           | 20-XB-1100A  | TRIP FEEDBACK                  | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1203                                                                                                                                                                                                                                                                                                                                                                                           | 20-PI-0471B  | PRESSURE INDICATOR             | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | N/A    | N/A      | 10                        | 90                | 5                            | 55                   | MPC-2 | 1/2" NPTM     | SS316                              | *            | *         | -              | A    | -      |  |
| 1204                                                                                                                                                                                                                                                                                                                                                                                           | 20-PT-0472B  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0203-15 | ND-PM-1100A                                                                                       | PSD    | AI       | 10                        | 90                | 5                            | 55                   | MPC-2 | 1/2"NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1205                                                                                                                                                                                                                                                                                                                                                                                           | 20-XS-1100B  | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-15 | ND-PM-1100B                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1206                                                                                                                                                                                                                                                                                                                                                                                           | 20-XXS-1100B | SHUTDOWN TRIP                  | 17039-ND-P-DW-0203-15 | ND-PM-1100B                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1207                                                                                                                                                                                                                                                                                                                                                                                           | 20-XA-1100B  | FAULT ALARM                    | 17039-ND-P-DW-0203-15 | ND-PM-1100B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1208                                                                                                                                                                                                                                                                                                                                                                                           | 20-XI-1100B  | RUNNING                        | 17039-ND-P-DW-0203-15 | ND-PM-1100B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1209                                                                                                                                                                                                                                                                                                                                                                                           | 20-XC-1100B  | START / STOP                   | 17039-ND-P-DW-0203-15 | ND-PM-1100B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1210                                                                                                                                                                                                                                                                                                                                                                                           | 20-XE-1100B  | AVAILABLE                      | 17039-ND-P-DW-0203-15 | ND-PM-1100B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1211                                                                                                                                                                                                                                                                                                                                                                                           | 20-XB-1100B  | TRIP FEEDBACK                  | 17039-ND-P-DW-0203-15 | ND-PM-1100B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 1212                                                                                                                                                                                                                                                                                                                                                                                           | 20-FIT-1019  | CORIOLIS TYPE FLOW TRANSMITTER | 17039-ND-P-DW-0203-16 | 6"-PL-20-0856-DC01                                                                                | DCS    |          |                           |                   |                              |                      |       |               |                                    |              |           |                |      |        |  |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                  |               |                                        |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                    |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                  |               |                                        |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                    |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                             | Tag No        | INSTRUMENT DESCRIPTION                 | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 1221                                                                                                                                                                                             | 20-PI-0468B   | PRESSURE INDICATOR                     | 17039-ND-P-DW-0203-17 | 4"-PT-20-0383B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 2.8                          | 95-98                | MPC-2 | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 1222                                                                                                                                                                                             | 20-TW-0469B   | THERMOWELL                             | 17039-ND-P-DW-0203-17 | 4"-PT-20-0383B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 2.8                          | 95-98                | MPC-2 | 1 1/2"/150#RF  | SS316                              | *            | *         | -              | A    | -      |  |
| 1223                                                                                                                                                                                             | 20-TI-0469B   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-17 | 4"-PT-20-0383B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 2.8                          | 95-98                | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 1224                                                                                                                                                                                             | 20-PDIT-0470B | DIFFERENTIAL PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-17 | ACROSE ND-HBG-B-1030                                                                              | DCS    | AI       | 10/FV                     | 150               | 2.8                          | 95-98                | MPC-2 | 1/2"NPT        | SS316                              | *            | *         | -              | A    | -      |  |
| 1225                                                                                                                                                                                             | 20-TW-0479B   | THERMOWELL                             | 17039-ND-P-DW-0203-17 | 3"-PL-20-0457B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4.5                          | 112                  | MPC-2 | 1 1/2"/150#RF  | SS316                              | *            | *         | -              | A    | -      |  |
| 1226                                                                                                                                                                                             | 20-TI-0479B   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-17 | 3"-PL-20-0457B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4.5                          | 112                  | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 1227                                                                                                                                                                                             | 20-PSV-0476C  | PRESSURE SAFETY VALVE                  | 17039-ND-P-DW-0203-17 | 2"-PL-20-0380B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4.5                          | 112                  | MPC-2 | 1" E 2"/150#RF | Body:Carbon Steel<br>Trim : SS316  | *            | *         | -              | A    | -      |  |
| 1228                                                                                                                                                                                             | 20-PSV-0476D  | PRESSURE SAFETY VALVE                  | 17039-ND-P-DW-0203-17 | 2"-PL-20-0381B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4.5                          | 112                  | MPC-2 | 1"E 2"/150#RF  | Body:Carbon Steel<br>Trim : SS316  | *            | *         | -              | A    | -      |  |
| 1229                                                                                                                                                                                             | 20-LV-0476B   | LEVEL CONTROL VALVE                    | 17039-ND-P-DW-0203-17 | 2"-PL-20-0397B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1230                                                                                                                                                                                             | 20-LY-0476B   | POSITIONER                             | 17039-ND-P-DW-0203-17 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 1231                                                                                                                                                                                             | 20-PI-0477B   | PRESSURE INDICATOR                     | 17039-ND-P-DW-0203-17 | 3"-PL-20-0374B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 1232                                                                                                                                                                                             | 20-TW-0478B   | THERMOWELL                             | 17039-ND-P-DW-0203-17 | 3"-PL-20-0374B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 1 1/2"/150#RF  | SS316                              | *            | *         | -              | A    | -      |  |
| 1233                                                                                                                                                                                             | 20-TI-0478B   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-17 | 3"-PL-20-0374B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 4                            | 55                   | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 1234                                                                                                                                                                                             | 20-PDIT-0480B | DIFFERENTIAL PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-17 | ACROSE ND-HBG-B-1030                                                                              | DCS    | AI       | 10/FV                     | 150               | 2.8                          | 95-98                | MPC-2 | 1/2"NPT        | SS316                              | *            | *         | -              | A    | -      |  |
| 1235                                                                                                                                                                                             | 20-TW-0471B   | THERMOWELL                             | 17039-ND-P-DW-0203-17 | 4"-PT-20-0377B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 2.3                          | 95-98                | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |
| 1236                                                                                                                                                                                             | 20-TI-0471B   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-17 | 4"-PT-20-0377B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 150               | 2.3                          | 95-98                | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 1237                                                                                                                                                                                             | 20-SDY-0476A  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-17 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1238                                                                                                                                                                                             | 20-SDY-0476C  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-17 | N/A                                                                                               | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1239                                                                                                                                                                                             | 20-SDV-0476A  | SHUTDOWN VALVE                         | 17039-ND-P-DW-0203-17 | 3"-PL-20-0379A-AC01                                                                               | N/A    | N/A      | 85                        | 80                | 70                           | 45                   | MPC-2 | 3"/900# RTJ    | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1240                                                                                                                                                                                             | 20-ZSL-0476A  | LIMIT SWITCH LOW                       | 17039-ND-P-DW-0203-17 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 1241                                                                                                                                                                                             | 20-ZSH-0476A  | LIMIT SWITCH HIGH                      | 17039-ND-P-DW-0203-17 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 1242                                                                                                                                                                                             | 20-SDY-0476B  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-17 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1243                                                                                                                                                                                             | 20-SDY-0476B  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-17 | N/A                                                                                               | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1244                                                                                                                                                                                             | 20-SDV-0476B  | SHUTDOWN VALVE                         | 17039-ND-P-DW-0203-17 | 3"-PL-20-0375A-AC01                                                                               | N/A    | N/A      | 85                        | 80                | 70                           | 45                   | MPC-2 | 3"/900# RTJ    | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1245                                                                                                                                                                                             | 20-ZSL-0476B  | LIMIT SWITCH LOW                       | 17039-ND-P-DW-0203-17 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 1246                                                                                                                                                                                             | 20-ZSH-0476B  | LIMIT SWITCH HIGH                      | 17039-ND-P-DW-0203-17 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 1247                                                                                                                                                                                             | 41-PSV-3607C  | PRESSURE SAFETY VALVE                  | 17039-ND-P-DW-0203-18 | 2"-HM-41-3606B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1" D 2"/300#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1248                                                                                                                                                                                             | 41-PSV-3607D  | PRESSURE SAFETY VALVE                  | 17039-ND-P-DW-0203-18 | 2"-HM-41-3605B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1" D 2"/300#RF | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1249                                                                                                                                                                                             | 20-PDIT-3605B | DIFFERENTIAL PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-18 | ACROSE ND-HBG-B-1040                                                                              | DCS    | AI       | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1/2"NPT        | SS316                              | *            | *         | -              | A    | -      |  |
| 1250                                                                                                                                                                                             | 41-TW-3603B   | THERMOWELL                             | 17039-ND-P-DW-0203-18 | 2"-HM-41-3603B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |
| 1251                                                                                                                                                                                             | 41-TI-3603B   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-18 | 2"-HM-41-3603B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 1252                                                                                                                                                                                             | 41-PI-3604B   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0203-18 | 2"-HM-41-3603B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 2"/300#RF      | SS316                              | *            | *         | -              | A    | -      |  |
| 1253                                                                                                                                                                                             | 41-TV-0470B   | TEMPERATURE CONTROL VALVE              | 17039-ND-P-DW-0203-18 | 2"-HM-41-3603B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 4.5                          | 100                  | MPC-2 | 1"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1254                                                                                                                                                                                             | 41-TY-0470B   | POSITIONER                             | 17039-ND-P-DW-0203-18 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                              | *            | *         | -              | A    | -      |  |
| 1255                                                                                                                                                                                             | 41-SDV-3606   | SHUTDOWN VALVE                         | 17039-ND-P-DW-0203-18 | 2"-HM-41-3601B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 5.0                          | 200                  | MPC-2 | 2"/300#RF      | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 1256                                                                                                                                                                                             | 41-SXV-3606B  | SOLENOID VALVE                         | 17039-ND-P-DW-0203-18 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                              | *            | *         | -              | A    | -      |  |
| 1257                                                                                                                                                                                             | ZSL-3606B     | LIMIT SWITCH LOW                       | 17039-ND-P-DW-0203-18 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |
| 1258                                                                                                                                                                                             | ZSH 3606B     | LIMIT SWITCH HIGH                      | 17039-ND-P-DW-0203-18 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                             | *            | *         | -              | A    | -      |  |
| 1259                                                                                                                                                                                             | 41-PI-3601B   | PRESSURE INDICATOR                     | 17039-ND-P-DW-0203-18 | 2"-HM-41-3601B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |
| 1260                                                                                                                                                                                             | 41-TW-3602B   | THERMOWELL                             | 17039-ND-P-DW-0203-18 | 2"-HM-41-3601B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1 1/2"/300#RF  | SS316                              | *            | *         | -              | A    | -      |  |
| 1261                                                                                                                                                                                             | 41-TI-3602B   | TEMPERATURE INDICATOR                  | 17039-ND-P-DW-0203-18 | 2"-HM-41-3601B-BC01-1N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |
| 1262                                                                                                                                                                                             | 41-PDI-3610   | DIFFERENTIAL PRESSURE TRANSMITTER      | 17039-ND-P-DW-0203-18 | ACROSE ND-HBG-B-1040                                                                              | DCS    | AI       | 12/FV                     | 250               | 5                            | 200                  | MPC-2 | 1/2"NPT        | SS316                              | *            | *         | -              | A    | -      |  |
| 1263                                                                                                                                                                                             | 20-TW-0467B   | THERMOWELL                             | 17039-ND-P-DW-0203-18 | 4"-PT-20-0384B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 250               | 1.8                          | 112                  | MPC-2 | 1 1/2"/150#RF  | SS316                              | *            | *         | -              | A    | -      |  |
| 1264                                                                                                                                                                                             | 20>           |                                        |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                    |              |           |                |      |        |  |

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|                                                                                                                                                                                                                         |                  |                                                |                       | PROJECT :              |        | CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |                           |                   |                              |                      |       |               |                                 |              |           | REV NO. :      |      |        |  |  |
|                                                                                                                                                                                                                         |                  |                                                |                       |                        |        |                                                                                         |                           |                   |                              |                      |       |               |                                 |              |           | DATE :         |      |        |  |  |
| S.No                                                                                                                                                                                                                    | Tag No           | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.      | SYSTEM | I/O TYPE                                                                                | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |  |
| 1282                                                                                                                                                                                                                    | 20-AI-1060A      | CURRENT INDICATION                             | 17039-ND-P-DW-0203-19 | DEHYDRATOR TRANSFORMER | DCS    | AI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1283                                                                                                                                                                                                                    | 20-AI-1060B      | CURRENT INDICATION                             | 17039-ND-P-DW-0203-19 | DEHYDRATOR TRANSFORMER | DCS    | AI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1284                                                                                                                                                                                                                    | 20-EI-1060A      | VOLTAGE INDICATOR                              | 17039-ND-P-DW-0203-19 | DEHYDRATOR TRANSFORMER | DCS    | AI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1285                                                                                                                                                                                                                    | 20-EI-1060B      | VOLTAGE INDICATOR                              | 17039-ND-P-DW-0203-19 | DEHYDRATOR TRANSFORMER | DCS    | AI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1286                                                                                                                                                                                                                    | 20-HS-2012A      | START                                          | 17039-ND-P-DW-0203-19 | DEHYDRATOR TRANSFORMER | DCS    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1287                                                                                                                                                                                                                    | 20-XS-2012       | SHUTDOWN                                       | 17039-ND-P-DW-0203-19 | DEHYDRATOR TRANSFORMER | PSD    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1288                                                                                                                                                                                                                    | 20-HS-2012B      | STOP                                           | 17039-ND-P-DW-0203-19 | DEHYDRATOR TRANSFORMER | DCS    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1289                                                                                                                                                                                                                    | 20-XI-1060       | RUNNING                                        | 17039-ND-P-DW-0203-19 | LV SWITCH GEAR         | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1290                                                                                                                                                                                                                    | 20-XA-1060       | FAULT ALARM                                    | 17039-ND-P-DW-0203-19 | LV SWITCH GEAR         | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1291                                                                                                                                                                                                                    | 20-XS-1060       | SHUTDOWN                                       | 17039-ND-P-DW-0203-19 | LV SWITCH GEAR         | PSD    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1292                                                                                                                                                                                                                    | 20-X-1060        | START                                          | 17039-ND-P-DW-0203-19 | LV SWITCH GEAR         | DCS    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1293                                                                                                                                                                                                                    | 20-X-1060        | STOP                                           | 17039-ND-P-DW-0203-19 | LV SWITCH GEAR         | DCS    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1294                                                                                                                                                                                                                    | 20-PSH-1060A     | PRESSURE SWITCH HIGH                           | 17039-ND-P-DW-0203-19 | TRANSFORMER-A 100 KVA  | TCP    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1295                                                                                                                                                                                                                    | 20-TSH-1060A     | TEMPERATURE SWITCH HIGH                        | 17039-ND-P-DW-0203-19 | TRANSFORMER-A 100 KVA  | TCP    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 2" 900#       | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1296                                                                                                                                                                                                                    | 20-TSH-1060BA    | TEMPERATURE SWITCH HIGH                        | 17039-ND-P-DW-0203-19 | TRANSFORMER-A 100 KVA  | TCP    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 2" 900#       | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1297                                                                                                                                                                                                                    | 20-LS-0443       | LEVEL SWITCH                                   | 17039-ND-P-DW-0203-19 | ND-MBM-B-1060          | TCP    | DI                                                                                      | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 6"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1298                                                                                                                                                                                                                    | 20-PSH-1060B     | PRESSURE SWITCH HIGH                           | 17039-ND-P-DW-0203-19 | TRANSFORMER-B 100 KVA  | TCP    | DI                                                                                      | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1299                                                                                                                                                                                                                    | 20-TSH-1060B     | TEMPERATURE SWITCH HIGH                        | 17039-ND-P-DW-0203-19 | TRANSFORMER-B 100 KVA  | TCP    | DI                                                                                      | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2" 900#       | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1300                                                                                                                                                                                                                    | 20-TSH-1060B     | TEMPERATURE SWITCH HIGH                        | 17039-ND-P-DW-0203-19 | TRANSFORMER-B 100 KVA  | TCP    | DI                                                                                      | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2" 900#       | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1301                                                                                                                                                                                                                    | 20-ILT/ILG-4504B | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0203-19 | ND-MBM-B-1060          | DCS    | AI                                                                                      | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1302                                                                                                                                                                                                                    | 20-ILG-0442B     | TRANSPARENT TYPE LEVEL INDICATOR               | 17039-ND-P-DW-0203-19 | ND-MBM-B-1060          | N/A    | N/A                                                                                     | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1303                                                                                                                                                                                                                    | 20-ILIT-0415B    | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL  | 17039-ND-P-DW-0203-19 | ND-MBM-B-1060          | PSD    | AI                                                                                      | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1304                                                                                                                                                                                                                    | 20-TW-0414B      | THERMOWELL                                     | 17039-ND-P-DW-0203-19 | ND-MBM-B-1060          | N/A    | N/A                                                                                     | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1305                                                                                                                                                                                                                    | 20-TIT-0414B     | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0203-19 | ND-MBM-A-1060          | DCS    | AI                                                                                      | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1306                                                                                                                                                                                                                    | 44-ILV-4504B     | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0203-19 | 2"-PW-44-4503B-AC01    | N/A    | N/A                                                                                     | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 1"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |  |
| 1307                                                                                                                                                                                                                    | 44-ILY-4504B     | POSITIONER                                     | 17039-ND-P-DW-0203-19 | N/A                    | DCS    | AO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1308                                                                                                                                                                                                                    | 44-AIT-0171      | ANALYSER TRANSMITTER                           | 17039-ND-P-DW-0203-19 | 2"-PW-44-4503B-AC01    | DCS    | AI                                                                                      | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 1/2" NPT      | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1309                                                                                                                                                                                                                    | 44-SDV-1993B     | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-19 | 2"-PW-44-4503B-AC01    | N/A    | N/A                                                                                     | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | Body:Carbon Steel Trim : SS316  | *            | *         | -              | A    | -      |  |  |
| 1310                                                                                                                                                                                                                    | 44-SXV-1993B     | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-19 | N/A                    | PSD    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1311                                                                                                                                                                                                                    | 44-ZSL-1993B     | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-19 | N/A                    | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1312                                                                                                                                                                                                                    | 44-ZSH-1993B     | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-19 | N/A                    | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1313                                                                                                                                                                                                                    | 44-SDV-1151      | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0203-19 | 2"-PW-44-4503B-AC01    | N/A    | N/A                                                                                     | 10/FV                     | 150               | 1.8                          | 122                  | MPC-2 | 2"/150#RF     | Body:Carbon Steel Trim : SS316  | *            | *         | -              | A    | -      |  |  |
| 1314                                                                                                                                                                                                                    | 44-SXV-1151      | SOLENOID VALVE                                 | 17039-ND-P-DW-0203-19 | N/A                    | PSD    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1315                                                                                                                                                                                                                    | 44-ZSL-1151      | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0203-19 | N/A                    | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1316                                                                                                                                                                                                                    | 44-ZSH-1151      | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0203-19 | N/A                    | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1317                                                                                                                                                                                                                    | 20-FV-1117B      | FLOW CONTROL VALVE                             | 17039-ND-P-DW-0203-20 | 2"-PL-20-0455-AC01-1N  | N/A    | N/A                                                                                     | 10                        | 150               | 4.5                          | 115                  | MPC-2 | 1"/150#RF     | Body: carbon steel Trim : SS316 | *            | *         | -              | A    | -      |  |  |
| 1318                                                                                                                                                                                                                    | 20-FY-1117B      | POSITIONER                                     | 17039-ND-P-DW-0203-20 | N/A                    | DCS    | AO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1319                                                                                                                                                                                                                    | 20-PI-0419C      | PRESSURE INDICATOR                             | 17039-ND-P-DW-0203-20 | ND-PM-B-1070A          | N/A    | N/A                                                                                     | 10                        | 150               | 4.5                          | 115                  | MPC-2 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1320                                                                                                                                                                                                                    | 20-PT-0420C      | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0203-20 | ND-PM-B-1070A          | PSD    | AI                                                                                      | 10                        | 150               | 4.5                          | 115                  | MPC-2 | 1/2"NPT       | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1321                                                                                                                                                                                                                    | 20-FT-1117B      | CORIOLIS TYPE FLOW TRANSMITTER                 | 17039-ND-P-DW-0203-20 | 3"-PL-20-0457-AC01-1N  | DCS    | AI                                                                                      | 10                        | 150               | 4.5                          | 115                  | MPC-2 | 3"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1322                                                                                                                                                                                                                    | 20-XS-1070A      | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0203-20 | ND-PM-B-1070A          | PSD    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1323                                                                                                                                                                                                                    | 20-XXS-1070A     | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0203-20 | ND-PM-B-1070A          | ESD    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1324                                                                                                                                                                                                                    | 20-XA-1070A      | FAULT ALARM                                    | 17039-ND-P-DW-0203-20 | ND-PM-B-1070A          | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1325                                                                                                                                                                                                                    | 20-XI-1070A      | RUNNING                                        | 17039-ND-P-DW-0203-20 | ND-PM-B-1070A          | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1326                                                                                                                                                                                                                    | 20-XC-1070A      | START / STOP                                   | 17039-ND-P-DW-0203-20 | ND-PM-B-1070A          | DCS    | DO                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1327                                                                                                                                                                                                                    | 20-XE-1070A      | AVAILABLE                                      | 17039-ND-P-DW-0203-20 | ND-PM-B-1070A          | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1328                                                                                                                                                                                                                    | 20-XB-1070A      | TRIP FEEDBACK                                  | 17039-ND-P-DW-0203-20 | ND-PM-A-1070A          | DCS    | DI                                                                                      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1329                                                                                                                                                                                                                    | 20-PI-0419D      | PRESSURE INDICATOR                             | 17039-ND-P-DW-0203-20 | ND-PM-A-1070A          | N/A    | N/A                                                                                     | 10                        | 150               | 4.5                          | 115                  | MPC-2 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1330                                                                                                                                                                                                                    | 20-PT-0420D      | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0203-20 | ND-PM-A-1070A          | PSD    | AI                                                                                      | 10                        | 150               | 4.5                          | 115                  | MPC-2 | 1/2"NPT       | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1331                                                                                                                                                                                                                    | 20-XS-1070B      | SHUTDOWN TRIP</                                |                       |                        |        |                                                                                         |                           |                   |                              |                      |       |               |                                 |              |           |                |      |        |  |  |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|---------|---------------|---------------------------------|--------------|-----------|----------------|------|--------|--|--|
|                                                                                                                                                                                                                                                             |                 |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |         |               |                                 |              | REV NO. : |                |      |        |  |  |
|                                                                                                                                                                                                                                                             |                 |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                 |              | DATE :    |                |      |        |  |  |
| S.No                                                                                                                                                                                                                                                        | Tag No          | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |  |
| 1343                                                                                                                                                                                                                                                        | 44-TI-8045      | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0203-21 | 2"-PW-44-4504A-AC01-3N                                                                            | DCS    | AI       | 10/FV                     | 150               | 1.8                          | 112                  | MPC - 2 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1344                                                                                                                                                                                                                                                        | 20-XS-1080A     | SHUTDOWN / TRIP                                | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1345                                                                                                                                                                                                                                                        | 20-XXS-1080A    | SHUTDOWN / TRIP                                | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1346                                                                                                                                                                                                                                                        | 20-XA-1080A     | FAULT ALARM                                    | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1347                                                                                                                                                                                                                                                        | 20-XI-1080A     | RUNNING                                        | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1348                                                                                                                                                                                                                                                        | 20-XC-1080A     | START / STOP                                   | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1349                                                                                                                                                                                                                                                        | 20-XE-1080A     | AVAILABLE                                      | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1350                                                                                                                                                                                                                                                        | 20-XB-1080A     | TRIP FEEDBACK                                  | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1351                                                                                                                                                                                                                                                        | 20-XS-1080B     | SHUTDOWN / TRIP                                | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1352                                                                                                                                                                                                                                                        | 20-XXS-1080B    | SHUTDOWN / TRIP                                | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1353                                                                                                                                                                                                                                                        | 20-XA-1080B     | FAULT ALARM                                    | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1354                                                                                                                                                                                                                                                        | 20-XI-1080B     | RUNNING                                        | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1355                                                                                                                                                                                                                                                        | 20-XC-1080B     | START / STOP                                   | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1356                                                                                                                                                                                                                                                        | 20-XE-1080B     | AVAILABLE                                      | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1357                                                                                                                                                                                                                                                        | 20-XF-1080B     | FREQUENCY SET POINT                            | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1358                                                                                                                                                                                                                                                        | 20-XK-1080B     | SPEED INDICATION                               | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC - 2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1359                                                                                                                                                                                                                                                        | 20-XB-1080B     | TRIP FEEDBACK                                  | 17039-ND-P-DW-0203-21 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1360                                                                                                                                                                                                                                                        | 44-TW-8043B     | THERMOWELL                                     | 17039-ND-P-DW-0203-22 | 2"-PW-44-4504B-AC01-3N                                                                            | N/A    | N/A      | 10/FV                     | 150               | 1.8                          | 112                  | MPC-2   | 1 1/2"/150#RF | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1361                                                                                                                                                                                                                                                        | 44-TI-8043B     | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0203-22 | 2"-PW-44-4504B-AC01-3N                                                                            | N/A    | N/A      | 10/FV                     | 150               | 1.8                          | 112                  | MPC-2   | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1362                                                                                                                                                                                                                                                        | 44-TW-8044B     | THERMOWELL                                     | 17039-ND-P-DW-0203-22 | 2"-PW-44-4676B-AC01-3N                                                                            | N/A    | N/A      | 10/FV                     | 150               | 1.8                          | 112                  | MPC-2   | 1 1/2"/150#RF | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1363                                                                                                                                                                                                                                                        | 44-TI-8044B     | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0203-22 | 2"-PW-44-4676B-AC01-3N                                                                            | PSD    | AI       | 10/FV                     | 150               | 1.8                          | 112                  | MPC-2   | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1364                                                                                                                                                                                                                                                        | 44-TW-8045B     | THERMOWELL                                     | 17039-ND-P-DW-0203-22 | 2"-PW-44-4676B-AC01-3N                                                                            | N/A    | N/A      | 10/FV                     | 150               | 1.8                          | 112                  | MPC-2   | 1 1/2"/150#RF | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1365                                                                                                                                                                                                                                                        | 44-TI-8045B     | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0203-22 | 2"-PW-44-4676B-AC01-3N                                                                            | DCS    | AI       | 10/FV                     | 150               | 1.8                          | 112                  | MPC-2   | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1366                                                                                                                                                                                                                                                        | 20-XS-1080C     | SHUTDOWN / TRIP                                | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1367                                                                                                                                                                                                                                                        | 20-XXS-1080C    | SHUTDOWN / TRIP                                | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1368                                                                                                                                                                                                                                                        | 20-XA-1080C     | FAULT ALARM                                    | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1369                                                                                                                                                                                                                                                        | 20-XI-1080C     | RUNNING                                        | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1370                                                                                                                                                                                                                                                        | 20-XC-1080C     | START / STOP                                   | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1371                                                                                                                                                                                                                                                        | 20-XE-1080C     | AVAILABLE                                      | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1372                                                                                                                                                                                                                                                        | 20-XB-1080C     | TRIP FEEDBACK                                  | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1373                                                                                                                                                                                                                                                        | 20-XS-1080D     | SHUTDOWN / TRIP                                | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1374                                                                                                                                                                                                                                                        | 20-XXS-1080D    | SHUTDOWN / TRIP                                | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1375                                                                                                                                                                                                                                                        | 20-XA-1080D     | FAULT ALARM                                    | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1376                                                                                                                                                                                                                                                        | 20-XI-1080D     | RUNNING                                        | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1377                                                                                                                                                                                                                                                        | 20-XC-1080D     | START / STOP                                   | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1378                                                                                                                                                                                                                                                        | 20-XE-1080D     | AVAILABLE                                      | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1379                                                                                                                                                                                                                                                        | 20-XF-1080D     | FREQUENCY SET POINT                            | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1380                                                                                                                                                                                                                                                        | 20-XK-1080D     | SPEED INDICATION                               | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1381                                                                                                                                                                                                                                                        | 20-XB-1080D     | TRIP FEEDBACK                                  | 17039-ND-P-DW-0203-22 | EK-HAL-A-1080                                                                                     | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | N/A                             | *            | *         | -              | A    | -      |  |  |
| 1382                                                                                                                                                                                                                                                        | 23-SDV-1971     | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0204-01 | 6"-PV-23-0407-BC01                                                                                | N/A    | N/A      | 10/FV                     | 150               | 1.8                          | 112                  | MPC-2   | 6"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |  |
| 1383                                                                                                                                                                                                                                                        | 23-SXV-1971     | SOLENOID VALVE                                 | 17039-ND-P-DW-0204-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1384                                                                                                                                                                                                                                                        | 23-ZSL-1971     | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0204-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1385                                                                                                                                                                                                                                                        | 23-ZSH-1971     | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0204-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1386                                                                                                                                                                                                                                                        | 23-SDV-1971A    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0204-01 | 6"-PV-23-0407-BC01                                                                                | N/A    | N/A      | 25/FV                     | 165               | 0.8-19                       | 51-128.2             | MPC-2   | 6"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |  |
| 1387                                                                                                                                                                                                                                                        | 23-SXV-1971A    | SOLENOID VALVE                                 | 17039-ND-P-DW-0204-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | 1/4" NPT      | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1388                                                                                                                                                                                                                                                        | 23-ZSL-1971A    | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0204-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1389                                                                                                                                                                                                                                                        | 23-ZSH-1971A    | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0204-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1390                                                                                                                                                                                                                                                        | 24-LIT-3052A    | LEVEL INDICATING TRANSMITTER                   | 17039-ND-P-DW-0205-01 | ND-MBD-1250A                                                                                      | PSD    | AI       | 30/FV                     | 85                | 24                           | 55                   | MPC-2   | 2" 300# RF    | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1391                                                                                                                                                                                                                                                        | 24-LG/LIT-3054A | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0205-01 | ND-MBD-1250A                                                                                      | DCS    | AI       | 30/FV                     | 85                | 24                           | 55                   | MPC-2   | 2" 300# RF    | SS 316                          | *            | *         | -              | A    | -      |  |  |
| 1392                                                                                                                                                                                                                                                        | 24-LV-3054A     | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0205-01 | 2"-PL-20-3053-BC01                                                                                | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2   | 1"/300# RF    | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |  |
| 1393                                                                                                                                                                                                                                                        | 24-LY-3054A     | POSITIONER                                     | 17039-ND-P-DW-0205-01 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2   | N/A           | SS316                           | *            | *         | -              | A    | -      |  |  |
| 1394                                                                                                                                                                                                                                                        | 24-PIT-305      |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |         |               |                                 |              |           |                |      |        |  |  |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|--------------------------|------------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                                                      |                 |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                          |                                          |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                                                      |                 |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                          |                                          |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                                                 | Tag No          | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING            | BODY MATERIAL                            | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 1404                                                                                                                                                                                                                                                 | 20-ZSL-3055     | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0205-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      | SS 316                                   | *            | *         | -              | A    | -      |
| 1405                                                                                                                                                                                                                                                 | 20-ZSH-3055     | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0205-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      | SS 316                                   | *            | *         | -              | A    | -      |
| 1406                                                                                                                                                                                                                                                 | 24-TI-3059B     | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0205-01 | ND-MBD-1250A                                                                                      | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 1/2"NPTM                 | SS 316                                   | *            | *         | -              | A    | -      |
| 1407                                                                                                                                                                                                                                                 | 24-TW-3059B     | THERMOWELL                                     | 17039-ND-P-DW-0205-01 | ND-MBD-1250A                                                                                      | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 2"/150#RF                | SS 316                                   | *            | *         | -              | A    | -      |
| 1408                                                                                                                                                                                                                                                 | 24-PI-3053B     | PRESSURE INDICATOR                             | 17039-ND-P-DW-0205-01 | ND-MBD-1250B                                                                                      | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 1/2" NPTM                | SS316                                    | *            | *         | -              | A    | -      |
| 1409                                                                                                                                                                                                                                                 | 20-PSV-3056A    | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0205-01 | 3"-PV-24-3057-BC01                                                                                | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 1 1/2"/300# F 2"/150# RF | BODY:CARBONSTEEL / NOZZLE & DISC : SS316 | *            | *         | -              | A    | -      |
| 1410                                                                                                                                                                                                                                                 | 20-PIT-3051B    | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0205-01 | ND-MBD-A-1250B                                                                                    | PSD    | AI       | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 2"/300#RF                | SS 316                                   | *            | *         | -              | A    | -      |
| 1411                                                                                                                                                                                                                                                 | 24-LIT-3052B    | DP TYPE LEVEL TRANSMITTER                      | 17039-ND-P-DW-0205-01 | ND-MBD-A-1250B                                                                                    | PSD    | AI       | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 2" 300# RF               | SS 316                                   | *            | *         | -              | A    | -      |
| 1412                                                                                                                                                                                                                                                 | 24-LG/LIT-3054B | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0205-01 | ND-MBD-A-1250B                                                                                    | DCS    | AI       | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 2" 300# RF               | SS 316                                   | *            | *         | -              | A    | -      |
| 1413                                                                                                                                                                                                                                                 | 20-LV-3054B     | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0205-01 | 2"-PL-20-3054-BC01                                                                                | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 1"/300# RF               | BODY:CARBONSTEEL / TRIM : SS316          | *            | *         | -              | A    | -      |
| 1414                                                                                                                                                                                                                                                 | 20-LY-3054B     | POSITIONER                                     | 17039-ND-P-DW-0205-01 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      | SS316                                    | *            | *         | -              | A    | -      |
| 1415                                                                                                                                                                                                                                                 | 20-PSV-3056B    | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0205-01 | 3"-PV-24-3059-BC01                                                                                | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 1 1/2" F 2" /300# RF     | BODY:CARBONSTEEL / NOZZLE & DISC : SS316 | *            | *         | -              | A    | -      |
| 1416                                                                                                                                                                                                                                                 | 20-BDV-3059     | BLOWDOWN VALVE                                 | 17039-ND-P-DW-0205-01 | 2"-PV-24-3060-BC01                                                                                | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 2"/ 300# RF              | BODY:CARBONSTEEL / TRIM : SS316          | *            | *         | -              | A    | -      |
| 1417                                                                                                                                                                                                                                                 | 20-SDY-3059     | SOLENOID VALVE                                 | 17039-ND-P-DW-0205-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                 | SS316                                    | *            | *         | -              | A    | -      |
| 1418                                                                                                                                                                                                                                                 | 20-ZSL-3059     | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0205-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      |                                          | *            | *         | -              | A    | -      |
| 1419                                                                                                                                                                                                                                                 | 20-ZSH-3059     | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0205-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      |                                          | *            | *         | -              | A    | -      |
| 1420                                                                                                                                                                                                                                                 | 24-PDIT-3063    | DIFFERENTIAL PRESSURE TRANSMITTER              | 17039-ND-P-DW-0205-02 | ACROSS STRAINER                                                                                   | DCS    | AI       | 30                        | 85                | 24                           | 55                   | MPC-2 | 1/2"NPT                  | SS316                                    | *            | *         | -              | A    | -      |
| 1421                                                                                                                                                                                                                                                 | 24-FT-3064      | ULTRASONIC TYPE FLOW TRANSMITTER               | 17039-ND-P-DW-0205-02 | 6"-PV-24-3061-BC01                                                                                | DCS    | AI       | 30                        | 85                | 24                           | 55                   | MPC-2 | 6"/300#RF                | SS316                                    | *            | *         | -              | A    | -      |
| 1422                                                                                                                                                                                                                                                 | 24-FT-3070      | ULTRASONIC TYPE FLOW TRANSMITTER               | 17039-ND-P-DW-0205-02 | 6"-PV-24-3063-BC01                                                                                | DCS    | AI       | 30                        | 85                | 24                           | 55                   | MPC-2 | 6"/300#RF                | SS316                                    | *            | *         | -              | A    | -      |
| 1423                                                                                                                                                                                                                                                 | 24-TT-3065      | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0205-02 | 6"-PV-24-3061-BC01                                                                                | DCS    | AI       | 30                        | 85                | 24                           | 55                   | MPC-2 | 1/2" NPTM                | SS316                                    | *            | *         | -              | A    | -      |
| 1424                                                                                                                                                                                                                                                 | 24-TW-3065      | THERMOWELL                                     | 17039-ND-P-DW-0205-02 | 6"-PV-24-3061-BC01                                                                                | N/A    | N/A      | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1 1/2"/300#RF            | SS316                                    | *            | *         | -              | A    | -      |
| 1425                                                                                                                                                                                                                                                 | 24-PIT-3078     | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0205-02 | 6"-PV-24-3065-BC01                                                                                | DCS    | AI       | 30                        | 85                | 24                           | 55                   | MPC-2 | 1/2" NPT                 | SS316                                    | *            | *         | -              | A    | -      |
| 1426                                                                                                                                                                                                                                                 | 24-AIT-1095     | ANALYSER TRANSMITTER                           | 17039-ND-P-DW-0205-02 | 6"-PV-24-3067-BC01                                                                                | DCS    | AI       | 30                        | 85                | 24                           | 55                   | MPC-2 | 1/2"NPT                  | SS316                                    | *            | *         | -              | A    | -      |
| 1427                                                                                                                                                                                                                                                 | 24-SDV-3081     | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0205-02 | 6"-PV-24-3066-BC01                                                                                | N/A    | N/A      | 30                        | 85                | 24                           | 55                   | MPC-2 | 6/ 300#RF                | BODY:CARBONSTEEL / TRIM : SS316          | *            | *         | -              | A    | -      |
| 1428                                                                                                                                                                                                                                                 | 24-SDY-3081     | SOLENOID VALVE                                 | 17039-ND-P-DW-0205-02 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                 | SS316                                    | *            | *         | -              | A    | -      |
| 1429                                                                                                                                                                                                                                                 | 24-ZSL-3081     | LIMIT SWITCH LOW                               | 17039-ND-P-DW-0205-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      | SS 316                                   | *            | *         | -              | A    | -      |
| 1430                                                                                                                                                                                                                                                 | 24-ZSH-3081     | LIMIT SWITCH HIGH                              | 17039-ND-P-DW-0205-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      | SS 316                                   | *            | *         | -              | A    | -      |
| 1431                                                                                                                                                                                                                                                 | 24-PV-3080      | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0205-02 | 6"-PV-24-3065-BC01                                                                                | N/A    | N/A      | 30                        | 85                | 24                           | 55                   | MPC-2 | 4"/ 300#RF               | BODY:CARBONSTEEL / TRIM : SS316          | *            | *         | -              | A    | -      |
| 1432                                                                                                                                                                                                                                                 | 24-PY-3080      | POSITIONER                                     | 17039-ND-P-DW-0205-02 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      | SS316                                    | *            | *         | -              | A    | -      |
| 1433                                                                                                                                                                                                                                                 | 24-PV-3079      | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0205-02 | 6"-PV-24-3067-BC01                                                                                | N/A    | N/A      | 30                        | 85                | 24                           | 55                   | MPC-2 | 4"/ 300#RF               | BODY:CARBONSTEEL / TRIM : SS316          | *            | *         | -              | A    | -      |
| 1434                                                                                                                                                                                                                                                 | 24-PY-3079      | POSITIONER                                     | 17039-ND-P-DW-0205-02 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                      | SS316                                    | *            | *         | -              | A    | -      |
| 1435                                                                                                                                                                                                                                                 | 42-FI-3910      | ROTAMETER                                      | 17039-ND-P-DW-0206-01 | 1/2"-CS-42-3879-GT20                                                                              | N/A    | N/A      | 10                        | 80                | 5                            | AMB                  | MPC-3 | 1/2" NPT                 | SS316                                    | *            | *         | -              | A    | -      |
| 1436                                                                                                                                                                                                                                                 | 42-FI-3912      | ROTAMETER                                      | 17039-ND-P-DW-0206-01 | 1/2"-CS-42-3900-GT20                                                                              | N/A    | N/A      | 10                        | 80                | 5                            | AMB                  | MPC-3 | 1/2" NPT                 | SS316                                    | *            | *         | -              | A    | -      |
| 1437                                                                                                                                                                                                                                                 | 66-PI-6601      | PRESSURE INDICATOR                             | 17039-ND-P-DW-0206-01 | 4"-WE-66-6602-AC01                                                                                | N/A    | N/A      | 10                        | 80                | 5                            | AMB                  | MPC-3 | 1/2" NPTM                | SS316                                    | *            | *         | -              | A    | -      |
| 1438                                                                                                                                                                                                                                                 | 66-PT-6602      | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0206-01 | 4"-WE-66-6602-AC01                                                                                | PSD    | AI       | 10                        | 80                | 5                            | AMB                  | MPC-3 | 1/2" NPTF                | SS316                                    | *            | *         | -              | A    | -      |
| 1439                                                                                                                                                                                                                                                 | 66-XC-3454      | START / STOP                                   | 17039-ND-P-DW-0206-01 | ND-PM-3454 A/B                                                                                    | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A                      | N/A                                      | *            | *         | -              | A    | -      |
| 1440                                                                                                                                                                                                                                                 | 66-XI-3454      | RUNNING                                        | 17039-ND-P-DW-0206-01 | ND-PM-3454 A/B                                                                                    | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A                      | N/A                                      | *            | *         | -              | A    | -      |
| 1441                                                                                                                                                                                                                                                 | 66-XA-3454      | FAULT ALARM                                    | 17039-ND-P-DW-0206-01 | ND-PM-3454 A/B                                                                                    | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A                      | N/A                                      | *            | *         | -              | A    | -      |
| 1442                                                                                                                                                                                                                                                 | 66-XE-3454      | AVAILABLE                                      | 17039-ND-P-DW-0206-01 | ND-PM-3454 A/B                                                                                    | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A                      | N/A                                      | *            | *         | -              | A    | -      |
| 1443                                                                                                                                                                                                                                                 | 66-XB-3454      | TRIP FEEDBACK                                  | 17039-ND-P-DW-0206-01 | ND-PM-3454 A/B                                                                                    | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A                      | N/A                                      | *            | *         | -              | A    | -      |
| 1444                                                                                                                                                                                                                                                 | 66-XS-3454      | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0206-01 | ND-PM-3454 A/B                                                                                    | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A                      | N/A                                      | *            | *         | -              | A    | -      |
| 1445                                                                                                                                                                                                                                                 | 66-XXS-3454     | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0206-01 | ND-PM-3454 A/B                                                                                    | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A                      | N/A                                      | *            | *         | -              | A    | -      |
| 1446                                                                                                                                                                                                                                                 | 66-LIT-3510     | RADAR TYPE LEVEL TRANSMITTER                   | 17039-ND-P-DW-0206-01 | ND-ABJ-3450                                                                                       | DCS    | AI       | 10                        | 80                | 5                            | AMB                  | MPC-3 | 4"/150#RF                | SS316                                    | *            | *         | -              | A    | -      |
| 1447                                                                                                                                                                                                                                                 | 66-TI-3521      | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0206-01 | ND-ABJ-3450                                                                                       | N/A    | N/A      | 10                        | 80                | 5                            | AMB                  | MPC-3 | 1/2"NPTM                 | SS316                                    | *            | *         | -              | A    | -      |
| 1448                                                                                                                                                                                                                                                 | 66-TW-3521      | THERMOWELL                                     | 17039-ND-P-DW-0206-01 | ND-ABJ-3450                                                                                       | N/A    | N/A      | 10                        | 80                | 5                            | AMB                  | MPC-3 | 2"/150#RF                | SS316                                    | *            | *         | -              | A    | -      |
| 1449                                                                                                                                                                                                                                                 | 66-SDV-6643A    | SHUTDOWN VALVE                                 | 17039-ND-P-DW-0206-02 | 4"-TW-66-6604-AC01                                                                                | N/A    | N/A      | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-3 | 4"/150#RF                | BODY:CARBONSTEEL / TRIM : SS316          | *            | *         | -              | A    | -      |
| 1450                                                                                                                                                                                                                                                 | 66-SXV-6643A    | SOLENOID VALVE                                 | 17039-ND-P-DW-0206-02 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/4" NPT                 | SS316                                    | *            | *         | -              | A    | -      |
| 1451                                                                                                                                                                                                                                                 | 66-ZSL-6643A    | LIMIT SWITCH LOW                               | 17039-ND-P3           |                                                                                                   |        |          |                           |                   |                              |                      |       |                          |                                          |              |           |                |      |        |

| <div><div><div>KAVIN™</div></div><div><div>ऑयल इंडिया लिमिटेड<br/>Oil India Limited</div></div></div> <div>CLIENT : OIL INDIA LIMITED</div> <div>DOC NO. :</div> |              |                              |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |                        |          |                   |        |          |                           |                              |                                 |                      |     | REV NO. :     |               |              |           |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|------------------------|----------|-------------------|--------|----------|---------------------------|------------------------------|---------------------------------|----------------------|-----|---------------|---------------|--------------|-----------|----------------|
|                                                                                                                                                                                                                                                                                                                                 |              |                              |                       |                                                                                                   |        |                        |          |                   |        |          |                           |                              |                                 |                      |     | DATE :        |               |              |           |                |
|                                                                                                                                                                                                                                                                                                                                 |              |                              |                       | S.No                                                                                              | Tag No | INSTRUMENT DESCRIPTION | P&ID NO. | LINE / VESSEL NO. | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C)            | OPERATING PRESSURE (kg/cm2g)    | OPERATING TEMP. (°C) | MPC | SIZE / RATING | BODY MATERIAL | MANUFACTURER | MODEL NO. | DATA SHEET NO. |
| 1465                                                                                                                                                                                                                                                                                                                            | 66-SDY-6644B | SOLENOID VALVE               | 17039-ND-P-DW-0206-02 | N/A                                                                                               | PSD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-3                     | 1/4" NPT                     | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1466                                                                                                                                                                                                                                                                                                                            | 66-ZIL-6644B | LIMIT SWITCH LOW             | 17039-ND-P-DW-0206-02 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-3                     | N/A                          | SS 316                          | *                    | *   | -             | A             | -            |           |                |
| 1467                                                                                                                                                                                                                                                                                                                            | 66-ZIH-6644B | LIMIT SWITCH HIGH            | 17039-ND-P-DW-0206-02 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-3                     | N/A                          | SS 316                          | *                    | *   | -             | A             | -            |           |                |
| 1468                                                                                                                                                                                                                                                                                                                            | 66-LT-6603B  | RADAR TYPE LEVEL TRANSMITTER | 17039-ND-P-DW-0206-02 | ND-ABJ-3451                                                                                       | PSD    | AI                     | FOW+0.07 | 80                | ATM    | AMB      | MPC-3                     | 8"/150#RF                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1469                                                                                                                                                                                                                                                                                                                            | 66-TG-6636B  | TEMPERATURE INDICATOR        | 17039-ND-P-DW-0206-02 | ND-ABJ-3451                                                                                       | N/A    | N/A                    | FOW+0.07 | 80                | ATM    | AMB      | MPC-3                     | 1/2"NPTM                     | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1470                                                                                                                                                                                                                                                                                                                            | 66-TW6636B   | THERMOWELL                   | 17039-ND-P-DW-0206-02 | ND-ABJ-3451                                                                                       | N/A    | N/A                    | FOW+0.07 | 80                | ATM    | AMB      | MPC-3                     | 2"/150#RF                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1471                                                                                                                                                                                                                                                                                                                            | 66-PI-6608A  | PRESSURE INDICATOR           | 17039-ND-P-DW-0206-03 | 4"-TW-66-6623-CC01                                                                                | N/A    | N/A                    | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1/2" NPTM                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1472                                                                                                                                                                                                                                                                                                                            | 66-PI-6608B  | PRESSURE INDICATOR           | 17039-ND-P-DW-0206-03 | 4"-TW-66-6626-CC01                                                                                | N/A    | N/A                    | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1/2" NPTM                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1473                                                                                                                                                                                                                                                                                                                            | 66-PI-6608C  | PRESSURE INDICATOR           | 17039-ND-P-DW-0206-03 | 4"-TW-66-6629-CC01                                                                                | N/A    | N/A                    | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1/2" NPTM                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1474                                                                                                                                                                                                                                                                                                                            | 66-PT-6609A  | PRESSURE TRANSMITTER         | 17039-ND-P-DW-0206-03 | 4"-TW-66-6623-CC01                                                                                | PSD    | AI                     | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1/2" NPT                     | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1475                                                                                                                                                                                                                                                                                                                            | 66-PT-6609B  | PRESSURE TRANSMITTER         | 17039-ND-P-DW-0206-03 | 4"-TW-66-6626-CC01                                                                                | PSD    | AI                     | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1/2" NPT                     | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1476                                                                                                                                                                                                                                                                                                                            | 66-PT-6609C  | PRESSURE TRANSMITTER         | 17039-ND-P-DW-0206-03 | 4"-TW-66-6629-CC01                                                                                | PSD    | AI                     | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1/2" NPT                     | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1477                                                                                                                                                                                                                                                                                                                            | 66-PSV-6611A | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0206-03 | 2"-PL-20-6850-CC01                                                                                | N/A    | N/A                    | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1 1/2" 900#RTJ D 2' / 300#RF | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1478                                                                                                                                                                                                                                                                                                                            | 66-PSV-6611B | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0206-03 | 2"-PL-20-6850-CC01                                                                                | N/A    | N/A                    | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1 1/2" 900#RTJ D 2' / 300#RF | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1479                                                                                                                                                                                                                                                                                                                            | 66-PSV-6611C | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0206-03 | 2"-PL-20-6850-CC01                                                                                | N/A    | N/A                    | 80       | 80                | 70.3   | AMB      | MPC-3                     | 1 1/2" 900#RTJ D 2' / 300#RF | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1480                                                                                                                                                                                                                                                                                                                            | 41-SDV-6623  | SHUTDOWN VALVE               | 17039-ND-P-DW-0206-04 | 2"-HM-41-6636-BC01-IN                                                                             | N/A    | N/A                    | 15       | 80                | 12     | AMB      | MPC-3                     | 2"/150#RF                    | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1481                                                                                                                                                                                                                                                                                                                            | 41-SXY-6623  | SOLENOID VALVE               | 17039-ND-P-DW-0206-04 | N/A                                                                                               | PSD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-3                     | 1/4" NPT                     | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1482                                                                                                                                                                                                                                                                                                                            | 41-ZSL-6623  | LIMIT SWITCH LOW             | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-3                     | N/A                          | SS 316                          | *                    | *   | -             | A             | -            |           |                |
| 1483                                                                                                                                                                                                                                                                                                                            | 41-ZSH-6623  | LIMIT SWITCH HIGH            | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-3                     | N/A                          | SS 316                          | *                    | *   | -             | A             | -            |           |                |
| 1484                                                                                                                                                                                                                                                                                                                            | 66-PVSV-6613 | PRESSURE VACCUM SAFETY VALVE | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | N/A    | N/A                    | 15       | 80                | 12     | AMB      | MPC-3                     | 2"/150#RF                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1485                                                                                                                                                                                                                                                                                                                            | 66-TV-6622   | TEMPERATURE CONTROL VALVE    | 17039-ND-P-DW-0206-04 | 2"-HM-41-3677-BC01-IN                                                                             | N/A    | N/A                    | 15       | 80                | 12     | AMB      | MPC-3                     | 1"/150#RF                    | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1486                                                                                                                                                                                                                                                                                                                            | 66-TY-6622   | POSITIONER                   | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | AO                     | N/A      | N/A               | N/A    | N/A      | MPC-3                     | N/A                          | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1487                                                                                                                                                                                                                                                                                                                            | 66-TIT-6622  | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | DCS    | AI                     | 12       | 80                | 7      | 45       | MPC-3                     | 1/2"NPTM                     | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1488                                                                                                                                                                                                                                                                                                                            | 66-TW-6622   | THERMOWELL                   | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | DCS    | AI                     | 12       | 80                | 7      | 45       | MPC-3                     | 2"/150#RF                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1489                                                                                                                                                                                                                                                                                                                            | 41-PSV-6624A | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0206-04 | 2"-HM-41-6637-BC01-1N                                                                             | N/A    | N/A                    | 15       | 80                | 12     | AMB      | MPC-3                     | 1"/300#RF D 2"/150#RF        | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1490                                                                                                                                                                                                                                                                                                                            | 41-PSV-6624B | PRESSURE SAFETY VALVE        | 17039-ND-P-DW-0206-04 | 2"-HM-41-6856-BC01-1N                                                                             | N/A    | N/A                    | 15       | 80                | 12     | AMB      | MPC-3                     | 1"/300#RF D 2"/150#RF        | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1491                                                                                                                                                                                                                                                                                                                            | 66-LIT-6614  | RADAR TYPE LEVEL TRANSMITTER | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | PSD    | AI                     | 12       | 80                | 12     | AMB      | MPC-3                     | 8"/150#RF                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1492                                                                                                                                                                                                                                                                                                                            | 66-ILIT-6615 | RADAR TYPE LEVEL TRANSMITTER | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | DCS    | AI                     | 12       | 80                | 7      | 45       | MPC-3                     | 8"/150#RF                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1493                                                                                                                                                                                                                                                                                                                            | 66-TT-6621   | TEMPERATURE INDICATOR        | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | N/A    | N/A                    | 12       | 80                | 12     | AMB      | MPC-3                     | 1/2" NPTM                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1494                                                                                                                                                                                                                                                                                                                            | 66-TW-6621   | THERMOWELL                   | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | N/A    | N/A                    | 12       | 80                | 7      | 45       | MPC-3                     | 2"/150#RF                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1495                                                                                                                                                                                                                                                                                                                            | 66-TT-6620   | TEMPERATURE TRANSMITTER      | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | PSD    | AI                     | 12       | 80                | 12     | AMB      | MPC-3                     | 1/2" NPTM                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1496                                                                                                                                                                                                                                                                                                                            | 66-TW-6620   | THERMOWELL                   | 17039-ND-P-DW-0206-04 | ND-ABJ-3452                                                                                       | N/A    | N/A                    | 12       | 80                | 7      | 45       | MPC-3                     | 2"/150#RF                    | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1497                                                                                                                                                                                                                                                                                                                            | 20-XXS-1001D | SHUTDOWN / TRIP              | 17039-ND-P-DW-0206-04 | ND-BBJ-1111                                                                                       | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      | CSC-3                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1498                                                                                                                                                                                                                                                                                                                            | 20-XA-1001E  | FAULT ALARM                  | 17039-ND-P-DW-0206-04 | ND-BBJ-1111                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | CSC-3                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1499                                                                                                                                                                                                                                                                                                                            | 20-XI-1001E  | RUNNING                      | 17039-ND-P-DW-0206-04 | ND-BBJ-1111                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | CSC-3                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1500                                                                                                                                                                                                                                                                                                                            | 20-XC-1001E  | START / STOP                 | 17039-ND-P-DW-0206-04 | ND-BBJ-1111                                                                                       | DCS    | DO                     | N/A      | N/A               | N/A    | N/A      | CSC-3                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1501                                                                                                                                                                                                                                                                                                                            | 20-XE-1001E  | AVAILABLE                    | 17039-ND-P-DW-0206-04 | ND-BBJ-1111                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | CSC-3                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1502                                                                                                                                                                                                                                                                                                                            | 20-XS-1001E  | SHUTDOWN / TRIP              | 17039-ND-P-DW-0206-04 | ND-BBJ-1111                                                                                       | DCS    | DO                     | N/A      | N/A               | N/A    | N/A      | CSC-3                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1503                                                                                                                                                                                                                                                                                                                            | 20-XB-1001E  | TRIP FEEDBACK                | 17039-ND-P-DW-0206-04 | ND-BBJ-1111                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | CSC-3                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1504                                                                                                                                                                                                                                                                                                                            | 20-MOV-XXXX  | MOTOR OPERATED VALVE         | 17039-ND-P-DW-0206-04 | 2"-PL-66-6603-AC01                                                                                | N/A    | N/A                    | 25/FV    | 85                | 18     | 51       | MPC-2                     | 2"/300#RF                    | Body: carbon steel Trim : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1505                                                                                                                                                                                                                                                                                                                            | 20-ZSL-XXXX  | OPEN FEEDBACK                | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1506                                                                                                                                                                                                                                                                                                                            | 20-ZSH-XXXX  | CLOSE FEEDBACK               | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1507                                                                                                                                                                                                                                                                                                                            | 20-SSR-XXXX  | REMOTE / LOCAL FEEDBACK      | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1508                                                                                                                                                                                                                                                                                                                            | 20-STR-XXXX  | OPEN COMMAND                 | 17039-ND-P-DW-0206-04 | N/A                                                                                               | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1509                                                                                                                                                                                                                                                                                                                            | 20-STP-XXXX  | CLOSE COMMAND                | 17039-ND-P-DW-0206-04 | N/A                                                                                               | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1510                                                                                                                                                                                                                                                                                                                            | 20-XLT-XXXX  | TRIP                         | 17039-ND-P-DW-0206-04 | N/A                                                                                               | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1511                                                                                                                                                                                                                                                                                                                            | 20-MOV-XXXX  | MOTOR OPERATED VALVE         | 17039-ND-P-DW-0206-04 | 2"-PL-66-6635-AC01                                                                                | N/A    | N/A                    | 25/FV    | 85                | 18     | 51       | MPC-2                     | 2"/300#RF                    | Body: carbon steel Trim : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1512                                                                                                                                                                                                                                                                                                                            | 20-ZSL-XXXX  | OPEN FEEDBACK                | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1513                                                                                                                                                                                                                                                                                                                            | 20-ZSH-XXXX  | CLOSE FEEDBACK               | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1514                                                                                                                                                                                                                                                                                                                            | 20-SSR-XXXX  | REMOTE / LOCAL FEEDBACK      | 17039-ND-P-DW-0206-04 | N/A                                                                                               | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                          | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1515                                                                                                                                                                                                                                                                                                                            | 20-STR-XXXX  | OPEN COMMAND                 | 17039-ND-P-DW-0206-04 | N/A                                                                                               | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      |                           |                              |                                 |                      |     |               |               |              |           |                |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|---------------|---------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |               |                                 |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |               |                                 |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                                                                                                                                                                                                                               | Tag No       | INSTRUMENT DESCRIPTION         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 1526                                                                                                                                                                                                                                                                                                                                                                                               | 66-XXS-3455A | SHUTDOWN TRIP                  | 17039-ND-P-DW-0206-05 | ND-PM-3455A                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1527                                                                                                                                                                                                                                                                                                                                                                                               | 66-XC-3455B  | START / STOP                   | 17039-ND-P-DW-0206-05 | ND-PM-3455B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1528                                                                                                                                                                                                                                                                                                                                                                                               | 66-XI-3455B  | RUNNING                        | 17039-ND-P-DW-0206-05 | ND-PM-3455B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1529                                                                                                                                                                                                                                                                                                                                                                                               | 66-XA-3455B  | FAULT ALARM                    | 17039-ND-P-DW-0206-05 | ND-PM-3455B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1530                                                                                                                                                                                                                                                                                                                                                                                               | 66-XE-3455B  | AVAILABLE                      | 17039-ND-P-DW-0206-05 | ND-PM-3455B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1531                                                                                                                                                                                                                                                                                                                                                                                               | 66-XB-3455B  | TRIP FEEDBACK                  | 17039-ND-P-DW-0206-05 | ND-PM-3455B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1532                                                                                                                                                                                                                                                                                                                                                                                               | 66-XS-3455B  | SHUTDOWN TRIP                  | 17039-ND-P-DW-0206-05 | ND-PM-3455B                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1533                                                                                                                                                                                                                                                                                                                                                                                               | 66-XXS-3455B | SHUTDOWN TRIP                  | 17039-ND-P-DW-0206-05 | ND-PM-3455B                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1534                                                                                                                                                                                                                                                                                                                                                                                               | 66-PT-6629A  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0206-05 | OUTLET OF ND-PM-3455A                                                                             | USD    | AI       | 12                        | 80                | 7                            | 45                   | MPC-3 | 1/2" NPT      | SS 316                          | *            | *         | -              | A    | -      |  |
| 1535                                                                                                                                                                                                                                                                                                                                                                                               | 66-PT-6629B  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0206-05 | OUTLET OF ND-PM-3455B                                                                             | USD    | AI       | 12                        | 80                | 7                            | 45                   | MPC-3 | 1/2" NPT      | SS 316                          | *            | *         | -              | A    | -      |  |
| 1536                                                                                                                                                                                                                                                                                                                                                                                               | 66-PI-6628A  | PRESSURE INDICATOR             | 17039-ND-P-DW-0206-05 | OUTLET OF ND-PM-3455A                                                                             | N/A    | N/A      | 12                        | 80                | 7                            | 45                   | MPC-3 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |  |
| 1537                                                                                                                                                                                                                                                                                                                                                                                               | 66-PI-6628B  | PRESSURE INDICATOR             | 17039-ND-P-DW-0206-05 | OUTLET OF ND-PM-3455B                                                                             | N/A    | N/A      | 12                        | 80                | 7                            | 45                   | MPC-3 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |  |
| 1538                                                                                                                                                                                                                                                                                                                                                                                               | 66-FT-6630   | MAGNETIC TYPE FLOW TRANSMITTER | 17039-ND-P-DW-0206-05 | 2"-PL-66-6651-AC01                                                                                | DCS    | AI       | 12                        | 80                | 7                            | 45                   | MPC-3 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |
| 1539                                                                                                                                                                                                                                                                                                                                                                                               | 66-FV-6635   | FLOW CONTROL VALVE             | 17039-ND-P-DW-0206-06 | 3"-WE-66-6661-AC01                                                                                | N/A    | N/A      | 10                        | 80                | AMB                          | 5                    | MPC-3 | 2" 150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1540                                                                                                                                                                                                                                                                                                                                                                                               | 66-FY-6635   | POSITIONER                     | 17039-ND-P-DW-0206-06 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS316                           | *            | *         | -              | A    | -      |  |
| 1541                                                                                                                                                                                                                                                                                                                                                                                               | 66-FT-6635   | MAGNETIC TYPE FLOW TRANSMITTER | 17039-ND-P-DW-0206-06 | 4"-WE-66-6659-AC01                                                                                | DCS    | AI       | 10                        | 80                | AMB                          | 5                    | MPC-3 | 4" /150#RF    | SS316                           | *            | *         | -              | A    | -      |  |
| 1542                                                                                                                                                                                                                                                                                                                                                                                               | 66-PI-6633A  | PRESSURE INDICATOR             | 17039-ND-P-DW-0206-06 | 4"-WE-66-6656-AC01                                                                                | N/A    | N/A      | 10                        | 80                | AMB                          | 5                    | MPC-3 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |  |
| 1543                                                                                                                                                                                                                                                                                                                                                                                               | 66-PT-6634A  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0206-06 | 4"-WE-66-6656-AC01                                                                                | USD    | AI       | 10                        | 80                | AMB                          | 5                    | MPC-3 | 1/2" NPT      | SS316                           | *            | *         | -              | A    | -      |  |
| 1544                                                                                                                                                                                                                                                                                                                                                                                               | 66-PI-6633B  | PRESSURE INDICATOR             | 17039-ND-P-DW-0206-06 | 4"-WE-66-6658-AC01                                                                                | N/A    | N/A      | 10                        | 80                | AMB                          | 5                    | MPC-3 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |  |
| 1545                                                                                                                                                                                                                                                                                                                                                                                               | 66-PT-6634B  | PRESSURE TRANSMITTER           | 17039-ND-P-DW-0206-06 | 4"-WE-66-6658-AC01                                                                                | USD    | AI       | 10                        | 80                | AMB                          | 5                    | MPC-3 | 1/2" NPT      | SS316                           | *            | *         | -              | A    | -      |  |
| 1546                                                                                                                                                                                                                                                                                                                                                                                               | 66-XC-3456A  | START / STOP                   | 17039-ND-P-DW-0206-06 | ND-PM-3456A                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1547                                                                                                                                                                                                                                                                                                                                                                                               | 66-XI-3456A  | RUNNING                        | 17039-ND-P-DW-0206-06 | ND-PM-3456A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1548                                                                                                                                                                                                                                                                                                                                                                                               | 66-XA-3456A  | FAULT ALARM                    | 17039-ND-P-DW-0206-06 | ND-PM-3456A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1549                                                                                                                                                                                                                                                                                                                                                                                               | 66-XE-3456A  | AVAILABLE                      | 17039-ND-P-DW-0206-06 | ND-PM-3456A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1550                                                                                                                                                                                                                                                                                                                                                                                               | 66-XB-3456A  | TRIP FEEDBACK                  | 17039-ND-P-DW-0206-06 | ND-PM-3456A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1551                                                                                                                                                                                                                                                                                                                                                                                               | 66-XS-3456A  | SHUTDOWN TRIP                  | 17039-ND-P-DW-0206-06 | ND-PM-3456A                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1552                                                                                                                                                                                                                                                                                                                                                                                               | 66-XXS-3456A | SHUTDOWN TRIP                  | 17039-ND-P-DW-0206-06 | ND-PM-3456A                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1553                                                                                                                                                                                                                                                                                                                                                                                               | 66-LT-6631   | RADAR TYPE LEVEL TRANSMITTER   | 17039-ND-P-DW-0206-06 | ND-ABJ-3453                                                                                       | PSD    | AI       | FOW+0.07                  | 80                | AMB                          | 80                   | MPC-3 | 8"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |
| 1554                                                                                                                                                                                                                                                                                                                                                                                               | 66-TG-6637   | TEMPERATURE INDICATOR          | 17039-ND-P-DW-0206-06 | ND-ABJ-3453                                                                                       | N/A    | N/A      | FOW+0.07                  | 80                | AMB                          | 80                   | MPC-3 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 1555                                                                                                                                                                                                                                                                                                                                                                                               | 66-TW-6637   | THERMOWELL                     | 17039-ND-P-DW-0206-06 | ND-ABJ-3453                                                                                       | N/A    | N/A      | FOW+0.07                  | 80                | AMB                          | 80                   | MPC-3 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |  |
| 1556                                                                                                                                                                                                                                                                                                                                                                                               | 66-SDV-6641  | SHUTDOWN VALVE                 | 17039-ND-P-DW-0206-06 | 6"-WE-66-6654-AC01                                                                                | N/A    | N/A      | FOW+0.07                  | 80                | AMB                          | 80                   | MPC-3 | 6"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1557                                                                                                                                                                                                                                                                                                                                                                                               | 66-SXV-6641  | SOLENOID VALVE                 | 17039-ND-P-DW-0206-06 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/4" NPT      | SS316                           | *            | *         | -              | A    | -      |  |
| 1558                                                                                                                                                                                                                                                                                                                                                                                               | 66-ZSL-6641  | LIMIT SWITCH LOW               | 17039-ND-P-DW-0206-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |
| 1559                                                                                                                                                                                                                                                                                                                                                                                               | 66-ZSH-6641  | LIMIT SWITCH HIGH              | 17039-ND-P-DW-0206-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |
| 1560                                                                                                                                                                                                                                                                                                                                                                                               | 66-SDV-6640  | SHUTDOWN VALVE                 | 17039-ND-P-DW-0206-06 | 4"-WE-66-6605-AC01                                                                                | N/A    | N/A      | FOW+0.07                  | 80                | AMB                          | 80                   | MPC-3 | 4"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1561                                                                                                                                                                                                                                                                                                                                                                                               | 66-SXV-6640  | SOLENOID VALVE                 | 17039-ND-P-DW-0206-06 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/4" NPT      | SS316                           | *            | *         | -              | A    | -      |  |
| 1562                                                                                                                                                                                                                                                                                                                                                                                               | 66-ZSL-6640  | LIMIT SWITCH LOW               | 17039-ND-P-DW-0206-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |
| 1563                                                                                                                                                                                                                                                                                                                                                                                               | 66-ZSH-6640  | LIMIT SWITCH HIGH              | 17039-ND-P-DW-0206-06 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |
| 1564                                                                                                                                                                                                                                                                                                                                                                                               | 66-XC-3456B  | START / STOP                   | 17039-ND-P-DW-0206-06 | ND-PM-3456B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1565                                                                                                                                                                                                                                                                                                                                                                                               | 66-XI-3456B  | RUNNING                        | 17039-ND-P-DW-0206-06 | ND-PM-3456B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1566                                                                                                                                                                                                                                                                                                                                                                                               | 66-XA-3456B  | FAULT ALARM                    | 17039-ND-P-DW-0206-06 | ND-PM-3456B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1567                                                                                                                                                                                                                                                                                                                                                                                               | 66-XE-3456B  | AVAILABLE                      | 17039-ND-P-DW-0206-06 | ND-PM-3456B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1568                                                                                                                                                                                                                                                                                                                                                                                               | 66-XB-3456B  | TRIP FEEDBACK                  | 17039-ND-P-DW-0206-06 | ND-PM-3456B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1569                                                                                                                                                                                                                                                                                                                                                                                               | 66-XS-3456B  | SHUTDOWN TRIP                  | 17039-ND-P-DW-0206-06 | ND-PM-3456B                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1570                                                                                                                                                                                                                                                                                                                                                                                               | 66-XXS-3456B | SHUTDOWN TRIP                  | 17039-ND-P-DW-0206-06 | ND-PM-3456B                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |  |
| 1571                                                                                                                                                                                                                                                                                                                                                                                               | 45-XV-4010   | SHUTDOWN VALVE                 | 17039-ND-P-DW-0207-01 | 4"-OW-56-5410-AC01                                                                                | N/A    | N/A      | 11/FV                     | 100               | 6                            | 65                   | MPC-2 | 4" /150#RF    | SS316                           | *            | *         | -              | A    | -      |  |
| 1572                                                                                                                                                                                                                                                                                                                                                                                               | 45-SXV-4010  | SOLENOID VALVE                 | 17039-ND-P-DW-0207-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS316                           | *            | *         | -              | A    | -      |  |
| 1573                                                                                                                                                                                                                                                                                                                                                                                               | 45-ZSL-4010  | LIMIT SWITCH LOW               | 17039-ND-P-DW-0207-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |
| 1574                                                                                                                                                                                                                                                                                                                                                                                               | 45-ZSH-4010  | LIMIT SWITCH HIGH              | 17039-ND-P-DW-0207-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          | *            | *         | -              | A    | -      |  |
| 1575                                                                                                                                                                                                                                                                                                                                                                                               | 45-XV-4009   | SHUTDOWN VALVE                 | 17039-ND-P-DW-0207-01 | 4"-OW-56-4019-AC01                                                                                | N/A    | N/A      | 11/FV                     | 100               | 6                            | 65                   | MPC-2 | 4" /150#RF    | SS316                           | *            | *         | -              | A    | -      |  |
| 1576                                                                                                                                                                                                                                                                                                                                                                                               | 45-SXV-4009  | SOLENOID VALVE                 | 17039-ND-P-DW-0207-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS316                           | *            | *         | -              | A    | -      |  |
| 1577                                                                                                                                                                                                                                                                                                                                                                                               | 45-ZSL-4009  | LIMIT SWITCH LOW               | 17039-ND-P-DW-0207-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          |              |           |                |      |        |  |

| <div><div><div>KAVIN™</div></div><div><div>ऑयल इंडिया लिमिटेड<br/>Oil India Limited</div></div></div> <div>CLIENT : OIL INDIA LIMITED</div> |               |                                                |                                      | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJJAN, ASSAM |        |          |                           |                   |                              |                      |       |                           |                                 |              |           | DOC NO. :      |      |        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|---------------------------|---------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                                                            |               |                                                |                                      |                                                                                                    |        |          |                           |                   |                              |                      |       |                           |                                 |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                                                                                                                            |               |                                                |                                      |                                                                                                    |        |          |                           |                   |                              |                      |       |                           |                                 |              |           |                |      |        |  |
| S.No                                                                                                                                                                                                                                                                                                       | Tag No        | INSTRUMENT DESCRIPTION                         | P&ID NO.                             | LINE / VESSEL NO.                                                                                  | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING             | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 1587                                                                                                                                                                                                                                                                                                       | 63-PSV-6246A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0208-02                | 2"-UA-63-6207-AC01                                                                                 | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1 1/2"/300#RF F 2"/150#RF | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1588                                                                                                                                                                                                                                                                                                       | 63-TI-6205A   | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0208-02                | ND-MBD-2230A                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2"NPTM                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1589                                                                                                                                                                                                                                                                                                       | 63-TW-6205A   | THERMOWELL                                     | 17039-ND-P-DW-0208-02                | ND-MBD-2230A                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/150#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1590                                                                                                                                                                                                                                                                                                       | 63-LG-6207A   | MAGNETIC TYPE LEVEL INDICATOR                  | 17039-ND-P-DW-0208-02                | ND-MBD-2230A                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/150#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1591                                                                                                                                                                                                                                                                                                       | 63-PI-6206A   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0208-02                | ND-MBD-2230A                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPTM                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1592                                                                                                                                                                                                                                                                                                       | 63-PCV-6247A  | PRESSURE REGULATOR                             | 17039-ND-P-DW-0208-02                | 2"-UA-63-6206-AG01                                                                                 | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1"/150# RF                | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1593                                                                                                                                                                                                                                                                                                       | 63-PCV-6247B  | PRESSURE REGULATOR                             | 17039-ND-P-DW-0208-02                | 2"-UA-63-6206-AG01                                                                                 | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1"/150# RF                | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1594                                                                                                                                                                                                                                                                                                       | 63-TI-6205A   | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0208-02                | ND-MBD-2230A                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2"NPTM                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1595                                                                                                                                                                                                                                                                                                       | 63-TW-6205A   | THERMOWELL                                     | 17039-ND-P-DW-0208-02                | ND-MBD-2230A                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/150#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1596                                                                                                                                                                                                                                                                                                       | 63-PSV-6258A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0208-02                | 4"-IA-63-7800A-AC01                                                                                | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 3"/300#RF L 4"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1597                                                                                                                                                                                                                                                                                                       | 63-PSV-6258A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0208-02                | 4"-IA-63-6212A-AC01                                                                                | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 3"/300#RF L 4"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1598                                                                                                                                                                                                                                                                                                       | 66-PT-6202    | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0208-02                | 2"-UA-63-6228-AG01                                                                                 | DCS    | AI       | 10                        | 80                | AMB                          | 5                    | MPC-4 | 1/2" NPT                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1599                                                                                                                                                                                                                                                                                                       | 63-PSV-6258B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | 4"-IA-63-6212B-AC01                                                                                | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 3"/300#RF L 4"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1600                                                                                                                                                                                                                                                                                                       | 63-PSV-6258B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | 4"-IA-63-7800B-AC01                                                                                | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 3"/300#RF L 4"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1601                                                                                                                                                                                                                                                                                                       | 63-TI-6205B   | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | ND-MBD-2230B                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2"NPTM                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1602                                                                                                                                                                                                                                                                                                       | 63-TW-6205B   | THERMOWELL                                     | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | ND-MBD-2230B                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/150#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1603                                                                                                                                                                                                                                                                                                       | 63-PI-6406B   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | ND-MBD-2230B                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPTM                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1604                                                                                                                                                                                                                                                                                                       | 63-PIT-8053B  | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | ND-MBD-2230B                                                                                       | DCS    | AI       | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/150#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1605                                                                                                                                                                                                                                                                                                       | 63-LG-6407B   | MAGNETIC TYPE LEVEL INDICATOR                  | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | ND-MBD-2230B                                                                                       | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/150#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1606                                                                                                                                                                                                                                                                                                       | 63-PIT-6208C  | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | 2"-IA-63-6247B-AG01                                                                                | ESD    | AI       | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPT                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1607                                                                                                                                                                                                                                                                                                       | 63-PIT-6208A  | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | 2"-IA-63-6247B-AG01                                                                                | ESD    | AI       | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPT                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1608                                                                                                                                                                                                                                                                                                       | 63-PIT-6208B  | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | 2"-IA-63-6213B-AG01                                                                                | ESD    | AI       | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPT                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1609                                                                                                                                                                                                                                                                                                       | 63-PCV-6264A  | PRESSURE REGULATOR                             | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | 2"-IA-6247B-AG01                                                                                   | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1"/150# RF                | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1610                                                                                                                                                                                                                                                                                                       | 63-PCV-6264B  | PRESSURE REGULATOR                             | 17039-ND-P-DW-0208-02 (SHEET 2 OF 2) | 2"-IA-6247B-AG01                                                                                   | N/A    | N/A      | 13.5/FV                   | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1"/150# RF                | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1611                                                                                                                                                                                                                                                                                                       | 45-PV-5003A   | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0210-01                | 3"-PV-45-5575-BC01                                                                                 | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 2"/300#RF                 | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1612                                                                                                                                                                                                                                                                                                       | 45-PY-5003A   | POSITIONER                                     | 17039-ND-P-DW-0210-01                | N/A                                                                                                | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | SS316                           | *            | *         | -              | A    | -      |  |
| 1613                                                                                                                                                                                                                                                                                                       | 45-PV-5003B   | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0210-01                | 3"-PV-45-5575-BC01 BYPASS LINE                                                                     | N/A    | N/A      | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 2"/300#RF                 | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1614                                                                                                                                                                                                                                                                                                       | 45-PY-5003B   | POSITIONER                                     | 17039-ND-P-DW-0210-01                | N/A                                                                                                | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | SS316                           | *            | *         | -              | A    | -      |  |
| 1615                                                                                                                                                                                                                                                                                                       | 45-LV-5009    | LEVEL CONTROL VALVE                            | 17039-ND-P-DW-0210-01                | 3"-PV-45-5002-BC01                                                                                 | N/A    | N/A      | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 1"/300#RF                 | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1616                                                                                                                                                                                                                                                                                                       | 45-LY-5009    | POSITIONER                                     | 17039-ND-P-DW-0210-01                | N/A                                                                                                | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | SS316                           | *            | *         | -              | A    | -      |  |
| 1617                                                                                                                                                                                                                                                                                                       | 45-PT-5003A   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0210-01                | 3"-PV-45-5001-BC01                                                                                 | DCS    | AI       | 30/FV                     | 85                | 24                           | 55                   | MPC-2 | 1/2" NPT                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1618                                                                                                                                                                                                                                                                                                       | 45-LT-5040    | DP TYPE LEVEL TRANSMITTER                      | 17039-ND-P-DW-0210-01                | ND-MBF-3000                                                                                        | PSD    | AI       | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 2"/300#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1619                                                                                                                                                                                                                                                                                                       | 45-TI-5041    | TEMPERATURE INDICATOR                          | 17039-ND-P-DW-0210-01                | ND-MBF-3000                                                                                        | N/A    | N/A      | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 1/2"NPTM                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1620                                                                                                                                                                                                                                                                                                       | 45-TW-5041    | THERMOWELL                                     | 17039-ND-P-DW-0210-01                | ND-MBF-3000                                                                                        | N/A    | N/A      | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 2"/300#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1621                                                                                                                                                                                                                                                                                                       | 45-PI-5005    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0210-01                | ND-MBF-3000                                                                                        | N/A    | N/A      | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 1/2" NPTM                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1622                                                                                                                                                                                                                                                                                                       | 45-PT-5006    | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0210-01                | ND-MBF-3000                                                                                        | PSD    | AI       | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 2"/150#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1623                                                                                                                                                                                                                                                                                                       | 45-LG/LT-5007 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0210-01                | ND-MBF-3000                                                                                        | DCS    | AI       | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 2"/150#RF                 | SS316                           | *            | *         | -              | A    | -      |  |
| 1624                                                                                                                                                                                                                                                                                                       | 45-PT-5003B   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0210-01                | OUTLET OF ND-MBF-3000                                                                              | DCS    | AI       | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 1/2" NPT                  | SS316                           | *            | *         | -              | A    | -      |  |
| 1625                                                                                                                                                                                                                                                                                                       | 45-PSV-5005A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0210-01                | 4"-FG-45-5092-AC01                                                                                 | N/A    | N/A      | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 3" K 4"/150#RF            | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1626                                                                                                                                                                                                                                                                                                       | 45-PSV-5005B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0210-01                | 4"-FG-45-5093-AC01                                                                                 | N/A    | N/A      | 11/FV                     | 80                | 7                            | 44-45.5              | MPC-2 | 3" K 4"/150#RF            | BODY:CARBONSTEEL / TRIM : SS316 |              |           |                |      |        |  |

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<div><div>KAVIN™</div><div><div>অঁঁঁँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँँ</div></div></div> 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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|-----------------------|----------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                  |               |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                       |                                  |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                  |               |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                       |                                  |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                             | Tag No        | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING         | BODY MATERIAL                    | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 1709                                                                                                                                                                                             | 42-PCV-3834A  | PRESSURE REGULATOR                             | 17039-ND-P-DW-0211-02 | 1/2"-CO-42-3834A-GT20                                                                             | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/2"NPT               | BODY / TRIM :SS 316              | *            | *         | -              | A    | -      |  |
| 1710                                                                                                                                                                                             | 42-PCV-3834B  | PRESSURE REGULATOR                             | 17039-ND-P-DW-0211-02 | 1/2"-CO-42-3834B-GT20                                                                             | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/2"NPT               | BODY / TRIM :SS 316              | *            | *         | -              | A    | -      |  |
| 1711                                                                                                                                                                                             | 42-PI-3811A   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-02 | ND-PBA-5030A OUTLET                                                                               | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/2" NPTM             | SS316                            | *            | *         | -              | A    | -      |  |
| 1712                                                                                                                                                                                             | 42-PI-3811B   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-02 | ND-PBA-5030B OUTLET                                                                               | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/2" NPTM             | SS316                            | *            | *         | -              | A    | -      |  |
| 1713                                                                                                                                                                                             | 42-PSV-3835A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-02 | 1/2"-CO-42-3821A-GT20                                                                             | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC :<br>SS 316 | *            | *         | -              | A    | -      |  |
| 1714                                                                                                                                                                                             | 42-PSV-3835B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-02 | 1/2"-CO-42-3821B-GT20                                                                             | N/A    | N/A      | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC :<br>SS 316 | *            | *         | -              | A    | -      |  |
| 1715                                                                                                                                                                                             | 42-PT-3812A   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-02 | ND-PBA-5030A OUTLET                                                                               | USD    | AI       | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/2" NPTM             | SS 316L                          | *            | *         | -              | A    | -      |  |
| 1716                                                                                                                                                                                             | 42-PT-3812B   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-02 | ND-PBA-5030B OUTLET                                                                               | USD    | AI       | 110                       | 80                | 95                           | AMB                  | MPC-2 | 1/2" NPTM             | SS 316L                          | *            | *         | -              | A    | -      |  |
| 1717                                                                                                                                                                                             | 42-XC-5030A   | START / STOP                                   | 17039-ND-P-DW-0211-02 | ND-PM-5030A                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1718                                                                                                                                                                                             | 42-XI-5030A   | RUNNING                                        | 17039-ND-P-DW-0211-02 | ND-PM-5030A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1719                                                                                                                                                                                             | 42-XA-5030A   | FAULT ALARM                                    | 17039-ND-P-DW-0211-02 | ND-PM-5030A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1720                                                                                                                                                                                             | 42-XE-5030A   | AVAILABLE                                      | 17039-ND-P-DW-0211-02 | ND-PM-5030A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1721                                                                                                                                                                                             | 42-XB-5030A   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-02 | ND-PM-5030A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1722                                                                                                                                                                                             | 42-XS-5030A   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-02 | ND-PM-5030A                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1723                                                                                                                                                                                             | 42-XXS-5030A  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-02 | ND-PM-5030A                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1724                                                                                                                                                                                             | 42-XC-5030B   | START / STOP                                   | 17039-ND-P-DW-0211-02 | ND-PM-5030B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1725                                                                                                                                                                                             | 42-XI-5030B   | RUNNING                                        | 17039-ND-P-DW-0211-02 | ND-PM-5030B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1726                                                                                                                                                                                             | 42-XA-5030B   | FAULT ALARM                                    | 17039-ND-P-DW-0211-02 | ND-PM-5030B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1727                                                                                                                                                                                             | 42-XE-5030B   | AVAILABLE                                      | 17039-ND-P-DW-0211-02 | ND-PM-5030B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1728                                                                                                                                                                                             | 42-XB-5030B   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-02 | ND-PM-5030B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1729                                                                                                                                                                                             | 42-XS-5030B   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-02 | ND-PM-5030B                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1730                                                                                                                                                                                             | 42-XXS-5030B  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-02 | ND-PM-5030B                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1731                                                                                                                                                                                             | 42-LG/LT-3833 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0211-03 | ND-ABJ-5050                                                                                       | PSD    | AI       | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-2 | 2"/150#RF             | SS316L                           | *            | *         | -              | A    | -      |  |
| 1732                                                                                                                                                                                             | 42-PI-3834A   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-03 | ND-PBA-5050A OUTLET                                                                               | N/A    | N/A      | 100                       | 80                | 90                           | AMB                  | MPC-2 | 1/2" NPTM             | SS316                            | *            | *         | -              | A    | -      |  |
| 1733                                                                                                                                                                                             | 42-PI-3834B   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-03 | ND-PBA-5050B OUTLET                                                                               | N/A    | N/A      | 100                       | 80                | 90                           | AMB                  | MPC-2 | 1/2" NPTM             | SS316                            | *            | *         | -              | A    | -      |  |
| 1734                                                                                                                                                                                             | 42-PSV-3917A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-03 | 1/2"-CK-42-3863A-GT20                                                                             | N/A    | N/A      | 100                       | 80                | 90                           | AMB                  | MPC-2 | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC :<br>SS 316 | *            | *         | -              | A    | -      |  |
| 1735                                                                                                                                                                                             | 42-PSV-3917B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-03 | 1/2"-CK-42-3863B-GT20                                                                             | N/A    | N/A      | 100                       | 80                | 90                           | AMB                  | MPC-2 | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC :<br>SS 316 | *            | *         | -              | A    | -      |  |
| 1736                                                                                                                                                                                             | 42-PT-3835A   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-03 | ND-PBA-5050A OUTLET                                                                               | USD    | AI       | 100                       | 80                | 90                           | AMB                  | MPC-2 | 1/2"NPTM              | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | -      |  |
| 1737                                                                                                                                                                                             | 42-PT-3835B   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-03 | ND-PBA-5050B OUTLET                                                                               | USD    | AI       | 100                       | 80                | 90                           | AMB                  | MPC-2 | 1/2"NPTM              | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | -      |  |
| 1738                                                                                                                                                                                             | 42-XC-5050A   | START / STOP                                   | 17039-ND-P-DW-0211-03 | ND-PM-5050A                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1739                                                                                                                                                                                             | 42-XI-5050A   | RUNNING                                        | 17039-ND-P-DW-0211-03 | ND-PM-5050A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1740                                                                                                                                                                                             | 42-XA-5050A   | FAULT ALARM                                    | 17039-ND-P-DW-0211-03 | ND-PM-5050A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1741                                                                                                                                                                                             | 42-XE-5050A   | AVAILABLE                                      | 17039-ND-P-DW-0211-03 | ND-PM-5050A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1742                                                                                                                                                                                             | 42-XB-5050A   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-03 | ND-PM-5050A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1743                                                                                                                                                                                             | 42-XS-5050A   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-03 | ND-PM-5050A                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1744                                                                                                                                                                                             | 42-XXS-5050A  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-03 | ND-PM-5050A                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1745                                                                                                                                                                                             | 42-XC-5050B   | START / STOP                                   | 17039-ND-P-DW-0211-03 | ND-PM-5050B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1746                                                                                                                                                                                             | 42-XI-5050B   | RUNNING                                        | 17039-ND-P-DW-0211-03 | ND-PM-5050B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1747                                                                                                                                                                                             | 42-XA-5050B   | FAULT ALARM                                    | 17039-ND-P-DW-0211-03 | ND-PM-5050B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1748                                                                                                                                                                                             | 42-XE-5050B   | AVAILABLE                                      | 17039-ND-P-DW-0211-03 | ND-PM-5050B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1749                                                                                                                                                                                             | 42-XB-5050B   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-03 | ND-PM-5050B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1750                                                                                                                                                                                             | 42-XS-5050B   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-03 | ND-PM-5050B                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1751                                                                                                                                                                                             | 42-XXS-5050B  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-03 | ND-PM-5050B                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1752                                                                                                                                                                                             | 42-LG/LT-3842 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0211-04 | ND-ABJ-5060                                                                                       | PSD    | AI       | FOW+0.07                  | 85                | ATM                          | 55.00                | MPC-2 | 2"/150#RF             | SS316L                           | *            | *         | -              | A    | -      |  |
| 1753                                                                                                                                                                                             | 42-XC-5070B   | START / STOP                                   | 17039-ND-P-DW-0211-04 | ND-PM-5070B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1754                                                                                                                                                                                             | 42-XI-5070B   | RUNNING                                        | 17039-ND-P-DW-0211-04 | ND-PM-5070B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1755                                                                                                                                                                                             | 42-XA-5070B   | FAULT ALARM                                    | 17039-ND-P-DW-0211-04 | ND-PM-5070B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1756                                                                                                                                                                                             | 42-XE-5070B   | AVAILABLE                                      | 17039-ND-P-DW-0211-04 | ND-PM-5070B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            | *         | -              | A    | -      |  |
| 1757                                                                                                                                                                                             | 42-XB-5070B   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-04 | ND-PM-5070B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                              | *            |           |                |      |        |  |

| <div><div><div>KAVIN™</div></div><div><div>अभियान इंजिनियरिंग लिमिटेड<br/>Oil India Limited</div></div></div> <div>CLIENT : OIL INDIA LIMITED</div> <div>DOC NO. :</div> |               |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |                        |          |                   |        |          |                           |                       |                                 |                      |     | REV NO. :     |               |              |           |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|------------------------|----------|-------------------|--------|----------|---------------------------|-----------------------|---------------------------------|----------------------|-----|---------------|---------------|--------------|-----------|----------------|
|                                                                                                                                                                                                                                                                                                                                         |               |                                                |                       |                                                                                                   |        |                        |          |                   |        |          |                           |                       |                                 |                      |     | DATE :        |               |              |           |                |
|                                                                                                                                                                                                                                                                                                                                         |               |                                                |                       | S.No                                                                                              | Tag No | INSTRUMENT DESCRIPTION | P&ID NO. | LINE / VESSEL NO. | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C)     | OPERATING PRESSURE (kg/cm2g)    | OPERATING TEMP. (°C) | MPC | SIZE / RATING | BODY MATERIAL | MANUFACTURER | MODEL NO. | DATA SHEET NO. |
| 1770                                                                                                                                                                                                                                                                                                                                    | 41-TV-8046    | TEMPERATURE CONTROL VALVE                      | 17039-ND-P-DW-0211-04 | 2"-HM-41-7803-BC01-1N                                                                             | N/A    | N/A                    | FOW+0.07 | 85                | ATM    | 55       | MPC-2                     | 1"/300#RF             | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1771                                                                                                                                                                                                                                                                                                                                    | 41-TY-8046    | POSITIONER                                     | 17039-ND-P-DW-0211-04 | N/A                                                                                               | DCS    | AO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1772                                                                                                                                                                                                                                                                                                                                    | 42-TT-8049    | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0211-04 | ND-ABJ-5060                                                                                       | DCS    | AI                     | FOW+0.07 | 85                | ATM    | 55       | MPC-2                     | 1/2" NPTM             | SS316L                          | *                    | *   | -             | A             | -            |           |                |
| 1773                                                                                                                                                                                                                                                                                                                                    | 42-TW-8049    | THERMOWELL                                     | 17039-ND-P-DW-0211-04 | ND-ABJ-5060                                                                                       | N/A    | N/A                    | FOW+0.07 | 85                | ATM    | 55       | MPC-2                     | 2"/150#RF             | SS316L                          | *                    | *   | -             | A             | -            |           |                |
| 1774                                                                                                                                                                                                                                                                                                                                    | 42-TT-8050    | TEMPERATURE TRANSMITTER                        | 17039-ND-P-DW-0211-04 | ND-ABJ-5060                                                                                       | USD    | AI                     | FOW+0.07 | 85                | ATM    | 55       | MPC-2                     | 1/2" NPTM             | SS316L                          | *                    | *   | -             | A             | -            |           |                |
| 1775                                                                                                                                                                                                                                                                                                                                    | 42-TW-8050    | THERMOWELL                                     | 17039-ND-P-DW-0211-04 | ND-ABJ-5060                                                                                       | N/A    | N/A                    | FOW+0.07 | 85                | ATM    | 55       | MPC-2                     | 2"/150#RF             | SS316L                          | *                    | *   | -             | A             | -            |           |                |
| 1776                                                                                                                                                                                                                                                                                                                                    | 41-PSV-8048   | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-04 | 2"-HM-41-7806-BC01-3N                                                                             | N/A    | N/A                    | 110      | 80                | 95     | 80       | MPC-2                     | 1" D 2"/300#RF        | BODY:CARBONSTEEL / TRIM : SS316 | *                    | *   | -             | A             | -            |           |                |
| 1777                                                                                                                                                                                                                                                                                                                                    | 42-XC-5070A   | START / STOP                                   | 17039-ND-P-DW-0211-04 | ND-PM-5070A                                                                                       | DCS    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1778                                                                                                                                                                                                                                                                                                                                    | 42-XI-5070A   | RUNNING                                        | 17039-ND-P-DW-0211-04 | ND-PM-5070A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1779                                                                                                                                                                                                                                                                                                                                    | 42-XA-5070A   | FAULT ALARM                                    | 17039-ND-P-DW-0211-04 | ND-PM-5070A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1780                                                                                                                                                                                                                                                                                                                                    | 42-XE-5070A   | AVAILABLE                                      | 17039-ND-P-DW-0211-04 | ND-PM-5070A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1781                                                                                                                                                                                                                                                                                                                                    | 42-XB-5070A   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-04 | ND-PM-5070A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1782                                                                                                                                                                                                                                                                                                                                    | 42-XS-5070A   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-04 | ND-PM-5070A                                                                                       | USD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1783                                                                                                                                                                                                                                                                                                                                    | 42-XXS-5070A  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-04 | ND-PM-5070A                                                                                       | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1784                                                                                                                                                                                                                                                                                                                                    | 42-LG/LT-3846 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0211-05 | ND-ABJ-5080                                                                                       | PSD    | AI                     | FOW+0.07 | 80                | ATM    | AMB      | MPC-2                     | 2'/ 150# RF           | SS 316L                         | *                    | *   | -             | A             | -            |           |                |
| 1785                                                                                                                                                                                                                                                                                                                                    | 42-PI-3847A   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-05 | ND-PBA-5080A OUTLET                                                                               | N/A    | N/A                    | 8        | 80                | 6.5    | AMB      | MPC-2                     | 1/2" NPTM             | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1786                                                                                                                                                                                                                                                                                                                                    | 42-PI-3847B   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-05 | ND-PBA-5080B OUTLET                                                                               | N/A    | N/A                    | 8        | 80                | 6.5    | AMB      | MPC-2                     | 1/2" NPTM             | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1787                                                                                                                                                                                                                                                                                                                                    | 42-PSV-3989A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-05 | 1/2"-CD-42-3897A-GT20                                                                             | N/A    | N/A                    | 8        | 80                | 6.5    | AMB      | MPC-2                     | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC : SS 316   | *                    | *   | -             | A             | -            |           |                |
| 1788                                                                                                                                                                                                                                                                                                                                    | 42-PSV-3989B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-05 | 1/2"-CD-42-3898B-GT20                                                                             | N/A    | N/A                    | 8        | 80                | 6.5    | AMB      | MPC-2                     | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC : SS 316   | *                    | *   | -             | A             | -            |           |                |
| 1789                                                                                                                                                                                                                                                                                                                                    | 42-PT-3848A   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-05 | ND-PBA-5080A OUTLET                                                                               | USD    | AI                     | 8        | 80                | 6.5    | AMB      | MPC-2                     | 1/2" NPT              | SS 316L                         | *                    | *   | -             | A             | -            |           |                |
| 1790                                                                                                                                                                                                                                                                                                                                    | 42-PT-3848B   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-05 | ND-PBA-5080B OUTLET                                                                               | USD    | AI                     | 8        | 80                | 6.5    | AMB      | MPC-2                     | 1/2" NPT              | SS 316L                         | *                    | *   | -             | A             | -            |           |                |
| 1791                                                                                                                                                                                                                                                                                                                                    | 42-XC-5090A   | START / STOP                                   | 17039-ND-P-DW-0211-05 | ND-PM-5090A                                                                                       | DCS    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1792                                                                                                                                                                                                                                                                                                                                    | 42-XI-5090A   | RUNNING                                        | 17039-ND-P-DW-0211-05 | ND-PM-5090A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1793                                                                                                                                                                                                                                                                                                                                    | 42-XA-5090A   | FAULT ALARM                                    | 17039-ND-P-DW-0211-05 | ND-PM-5090A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1794                                                                                                                                                                                                                                                                                                                                    | 42-XE-5090A   | AVAILABLE                                      | 17039-ND-P-DW-0211-05 | ND-PM-5090A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1795                                                                                                                                                                                                                                                                                                                                    | 42-XB-5090A   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-05 | ND-PM-5090A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1796                                                                                                                                                                                                                                                                                                                                    | 42-XS-5090A   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-05 | ND-PM-5090A                                                                                       | USD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1797                                                                                                                                                                                                                                                                                                                                    | 42-XXS-5090A  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-05 | ND-PM-5090A                                                                                       | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1798                                                                                                                                                                                                                                                                                                                                    | 42-XC-5090B   | START / STOP                                   | 17039-ND-P-DW-0211-05 | ND-PM-5090B                                                                                       | DCS    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1799                                                                                                                                                                                                                                                                                                                                    | 42-XI-5090B   | RUNNING                                        | 17039-ND-P-DW-0211-05 | ND-PM-5090B                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1800                                                                                                                                                                                                                                                                                                                                    | 42-XA-5090B   | FAULT ALARM                                    | 17039-ND-P-DW-0211-05 | ND-PM-5090B                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1801                                                                                                                                                                                                                                                                                                                                    | 42-XE-5090B   | AVAILABLE                                      | 17039-ND-P-DW-0211-05 | ND-PM-5090B                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1802                                                                                                                                                                                                                                                                                                                                    | 42-XB-5090B   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-05 | ND-PM-5090B                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1803                                                                                                                                                                                                                                                                                                                                    | 42-XS-5090B   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-05 | ND-PM-5090B                                                                                       | USD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1804                                                                                                                                                                                                                                                                                                                                    | 42-XXS-5090B  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-05 | ND-PM-5090B                                                                                       | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1805                                                                                                                                                                                                                                                                                                                                    | 42-LG/LT-3826 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0211-06 | ND-ABJ-5100                                                                                       | PSD    | AI                     | FOW+0.07 | 80                | ATM    | AMB      | MPC-2                     | 2'/ 150# RF           | SS 316L                         | *                    | *   | -             | A             | -            |           |                |
| 1806                                                                                                                                                                                                                                                                                                                                    | 42-PI-3827A   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-06 | ND-PBA-5110A OUTLET                                                                               | N/A    | N/A                    | 110      | 80                | 95     | AMB      | MPC-2                     | 1/2" NPTM             | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1807                                                                                                                                                                                                                                                                                                                                    | 42-PI-3827B   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-06 | ND-PBA-5110B OUTLET                                                                               | N/A    | N/A                    | 110      | 80                | 95     | AMB      | MPC-2                     | 1/2" NPTM             | SS316                           | *                    | *   | -             | A             | -            |           |                |
| 1808                                                                                                                                                                                                                                                                                                                                    | 42-PSV-3894A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-06 | 1/2"-CV-42-3847A-GT20                                                                             | N/A    | N/A                    | 110      | 80                | 95     | AMB      | MPC-2                     | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC : SS 316L  | *                    | *   | -             | A             | -            |           |                |
| 1809                                                                                                                                                                                                                                                                                                                                    | 42-PSV-3894B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-06 | 1/2"-CV-42-3847B-GT20                                                                             | N/A    | N/A                    | 110      | 80                | 95     | AMB      | MPC-2                     | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC : SS 316L  | *                    | *   | -             | A             | -            |           |                |
| 1810                                                                                                                                                                                                                                                                                                                                    | 42-PT-3828A   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-06 | ND-PBA-5110A OUTLET                                                                               | USD    | AI                     | 110      | 80                | 95     | AMB      | MPC-2                     | 1/2" NPTM             | SS 316L                         | *                    | *   | -             | A             | -            |           |                |
| 1811                                                                                                                                                                                                                                                                                                                                    | 42-PT-3828B   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-06 | ND-PBA-5110B OUTLET                                                                               | USD    | AI                     | 110      | 80                | 95     | AMB      | MPC-2                     | 1/2" NPTM             | SS 316L                         | *                    | *   | -             | A             | -            |           |                |
| 1812                                                                                                                                                                                                                                                                                                                                    | 42-XC-5110A   | START / STOP                                   | 17039-ND-P-DW-0211-06 | ND-PM-5110A                                                                                       | DCS    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1813                                                                                                                                                                                                                                                                                                                                    | 42-XI-5110A   | RUNNING                                        | 17039-ND-P-DW-0211-06 | ND-PM-5110A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1814                                                                                                                                                                                                                                                                                                                                    | 42-XA-5110A   | FAULT ALARM                                    | 17039-ND-P-DW-0211-06 | ND-PM-5110A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1815                                                                                                                                                                                                                                                                                                                                    | 42-XE-5110A   | AVAILABLE                                      | 17039-ND-P-DW-0211-06 | ND-PM-5110A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1816                                                                                                                                                                                                                                                                                                                                    | 42-XB-5110A   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-06 | ND-PM-5110A                                                                                       | DCS    | DI                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1817                                                                                                                                                                                                                                                                                                                                    | 42-XS-5110A   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-06 | ND-PM-5110A                                                                                       | USD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1818                                                                                                                                                                                                                                                                                                                                    | 42-XXS-5110A  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-06 | ND-PM-5110A                                                                                       | ESD    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             | *                    | *   | -             | A             | -            |           |                |
| 1819                                                                                                                                                                                                                                                                                                                                    | 42-XC-5110B   | START / STOP                                   | 17039-ND-P-DW-0211-06 | ND-PM-5110B                                                                                       | DCS    | DO                     | N/A      | N/A               | N/A    | N/A      | MPC-2                     | N/A                   | N/A                             |                      |     |               |               |              |           |                |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|-----------------------|-----------------------------------|--------------|-----------|----------------|------|--------|--|--|
|                                                                                                                                                                                                                                                |               |                                                |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                       |                                   |              |           | REV NO. :      |      |        |  |  |
|                                                                                                                                                                                                                                                |               |                                                |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                       |                                   |              |           | DATE :         |      |        |  |  |
| S.No                                                                                                                                                                                                                                           | Tag No        | INSTRUMENT DESCRIPTION                         | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING         | BODY MATERIAL                     | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |  |
| 1831                                                                                                                                                                                                                                           | 42-PSV-3943A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-07 | 1/2"-CS-42-3874A-GT20                                                                             | N/A    | N/A      | 8                         | 80                | 6.5                          | AMB                  | MPC-2 | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC :<br>SS 316L | *            | *         | -              | A    | -      |  |  |
| 1832                                                                                                                                                                                                                                           | 42-PSV-3943B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-07 | 1/2"-CS-42-3874B-GT20                                                                             | N/A    | N/A      | 8                         | 80                | 6.5                          | AMB                  | MPC-2 | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC :<br>SS 316L | *            | *         | -              | A    | -      |  |  |
| 1833                                                                                                                                                                                                                                           | 42-PT-3839A   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-07 | ND-PBA-5130A OUTLET                                                                               | USD    | AI       | 8                         | 80                | 6.5                          | AMB                  | MPC-2 | 1/2" NPT              | SS 316L                           | *            | *         | -              | A    | -      |  |  |
| 1834                                                                                                                                                                                                                                           | 42-PT-3839B   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-07 | ND-PBA-5130B OUTLET                                                                               | USD    | AI       | 8                         | 80                | 6.5                          | AMB                  | MPC-2 | 1/2" NPT              | SS 316L                           | *            | *         | -              | A    | -      |  |  |
| 1835                                                                                                                                                                                                                                           | 42-XC-5130A   | START / STOP                                   | 17039-ND-P-DW-0211-07 | ND-PM-5130A                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1836                                                                                                                                                                                                                                           | 42-XI-5130A   | RUNNING                                        | 17039-ND-P-DW-0211-07 | ND-PM-5130A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1837                                                                                                                                                                                                                                           | 42-XA-5130A   | FAULT ALARM                                    | 17039-ND-P-DW-0211-07 | ND-PM-5130A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1838                                                                                                                                                                                                                                           | 42-XE-5130A   | AVAILABLE                                      | 17039-ND-P-DW-0211-07 | ND-PM-5130A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1839                                                                                                                                                                                                                                           | 42-XB-5130A   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-07 | ND-PM-5130A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1840                                                                                                                                                                                                                                           | 42-XS-5130A   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-07 | ND-PM-5130A                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1841                                                                                                                                                                                                                                           | 42-XXS-5130A  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-07 | ND-PM-5130A                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1842                                                                                                                                                                                                                                           | 42-XC-5130B   | START / STOP                                   | 17039-ND-P-DW-0211-07 | ND-PM-5130B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1843                                                                                                                                                                                                                                           | 42-XI-5130B   | RUNNING                                        | 17039-ND-P-DW-0211-07 | ND-PM-5130B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1844                                                                                                                                                                                                                                           | 42-XA-5130B   | FAULT ALARM                                    | 17039-ND-P-DW-0211-07 | ND-PM-5130B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1845                                                                                                                                                                                                                                           | 42-XE-5130B   | AVAILABLE                                      | 17039-ND-P-DW-0211-07 | ND-PM-5130B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1846                                                                                                                                                                                                                                           | 42-XB-5130B   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-07 | ND-PM-5130B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1847                                                                                                                                                                                                                                           | 42-XS-5130B   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-07 | ND-PM-5130B                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1848                                                                                                                                                                                                                                           | 42-XXS-5130B  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-07 | ND-PM-5130B                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1849                                                                                                                                                                                                                                           | 42-LG/LT-3852 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0211-08 | ND-ABJ-5140                                                                                       | PSD    | AI       | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-2 | 2" 150# RF            | SS 316L                           | *            | *         | -              | A    | -      |  |  |
| 1850                                                                                                                                                                                                                                           | 42-PI-3853A   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-08 | ND-PBA-5150A OUTLET                                                                               | N/A    | N/A      | 30                        | 80                | 23                           | AMB                  | MPC-2 | 1/2" NPTM             | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1851                                                                                                                                                                                                                                           | 42-PI-3853B   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0211-08 | MD-PBA-5150B OUTLET                                                                               | N/A    | N/A      | 30                        | 80                | 23                           | AMB                  | MPC-2 | 1/2" NPTM             | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1852                                                                                                                                                                                                                                           | 42-PSV-3855A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-08 | 1/2"-CK-42-3863A-GT20                                                                             | N/A    | N/A      | 30                        | 80                | 23                           | AMB                  | MPC-2 | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC :<br>SS 316  | *            | *         | -              | A    | -      |  |  |
| 1853                                                                                                                                                                                                                                           | 42-PSV-3855B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0211-08 | 1/2"-CK-42-3863B-GT20                                                                             | N/A    | N/A      | 30                        | 80                | 23                           | AMB                  | MPC-2 | 1/4" MNPT x 1/4" FNPT | BODY / NOZZLE & DISC :<br>SS 316  | *            | *         | -              | A    | -      |  |  |
| 1854                                                                                                                                                                                                                                           | 42-PT-3854A   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-08 | ND-PBA-5150A OUTLET                                                                               | USD    | AI       | 30                        | 80                | 23                           | AMB                  | MPC-2 | 1/2" NPTF             | SS 316L                           | *            | *         | -              | A    | -      |  |  |
| 1855                                                                                                                                                                                                                                           | 42-PT-3854B   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0211-08 | ND-PBA-5150B OUTLET                                                                               | USD    | AI       | 30                        | 80                | 23                           | AMB                  | MPC-2 | 1/2" NPTF             | SS 316L                           | *            | *         | -              | A    | -      |  |  |
| 1856                                                                                                                                                                                                                                           | 42-XC-5150A   | START / STOP                                   | 17039-ND-P-DW-0211-08 | ND-PM-5150A                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1857                                                                                                                                                                                                                                           | 42-XI-5150A   | RUNNING                                        | 17039-ND-P-DW-0211-08 | ND-PM-5150A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1858                                                                                                                                                                                                                                           | 42-XA-5150A   | FAULT ALARM                                    | 17039-ND-P-DW-0211-08 | ND-PM-5150A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1859                                                                                                                                                                                                                                           | 42-XE-5150A   | AVAILABLE                                      | 17039-ND-P-DW-0211-08 | ND-PM-5150A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1860                                                                                                                                                                                                                                           | 42-XB-5150A   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-08 | ND-PM-5150A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1861                                                                                                                                                                                                                                           | 42-XS-5150A   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-08 | ND-PM-5150A                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1862                                                                                                                                                                                                                                           | 42-XXS-5150A  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-08 | ND-PM-5150A                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1863                                                                                                                                                                                                                                           | 42-XC-5150B   | START / STOP                                   | 17039-ND-P-DW-0211-08 | ND-PM-5150B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1864                                                                                                                                                                                                                                           | 42-XI-5150B   | RUNNING                                        | 17039-ND-P-DW-0211-08 | ND-PM-5150B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1865                                                                                                                                                                                                                                           | 42-XA-5150B   | FAULT ALARM                                    | 17039-ND-P-DW-0211-08 | ND-PM-5150B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1866                                                                                                                                                                                                                                           | 42-XE-5150B   | AVAILABLE                                      | 17039-ND-P-DW-0211-08 | ND-PM-5150B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1867                                                                                                                                                                                                                                           | 42-XB-5150B   | TRIP FEEDBACK                                  | 17039-ND-P-DW-0211-08 | ND-PM-5150B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1868                                                                                                                                                                                                                                           | 42-XS-5150B   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-08 | ND-PM-5150B                                                                                       | USD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1869                                                                                                                                                                                                                                           | 42-XXS-5150B  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0211-08 | ND-PM-5150B                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                   | N/A                               | *            | *         | -              | A    | -      |  |  |
| 1870                                                                                                                                                                                                                                           | 53-FIT-5501   | MAGNETIC TYPE FLOW TRANSMITTER                 | 17039-ND-P-DW-0212-01 | 4"-WP-53-5590-AC01                                                                                | DCS    | AI       | 7/FV                      | 80                | 3                            | AMB                  | MPC-3 | 4"/150#RF             | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1871                                                                                                                                                                                                                                           | 53-FV-5501    | FLOW CONTROL VALVE                             | 17039-ND-P-DW-0212-01 | 4"-WP-53-5590-AC01                                                                                | N/A    | N/A      | 7/FV                      | 80                | 3                            | AMB                  | MPC-3 | 4"/150# RF            | BODY:CARBONSTEEL / TRIM : SS316   | *            | *         | -              | A    | -      |  |  |
| 1872                                                                                                                                                                                                                                           | 53-FY-5501    | POSITIONER                                     | 17039-ND-P-DW-0212-01 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A                   | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1873                                                                                                                                                                                                                                           | 53-PI-5557    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0212-01 | 4"-WP-53-5540-AC01                                                                                | N/A    | N/A      | 7/FV                      | 80                | 3                            | AMB                  | MPC-3 | 1/2" NPTM             | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1874                                                                                                                                                                                                                                           | 53-PI-XXXX    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0212-01 | ND-PBA-3280A                                                                                      | N/A    | N/A      | 7/FV                      | 80                | 3                            | AMB                  | MPC-3 | 1/2" NPTM             | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1875                                                                                                                                                                                                                                           | 53-PI-XXXX    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0212-01 | ND-PBA-3280B                                                                                      | N/A    | N/A      | 7/FV                      | 80                | 3                            | AMB                  | MPC-3 | 1/2" NPTM             | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1876                                                                                                                                                                                                                                           | 53-PI-XXXX    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0212-01 | ND-PBA-3280C                                                                                      | N/A    | N/A      | 7/FV                      | 80                | 3                            | AMB                  | MPC-3 | 1/2" NPTM             | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1877                                                                                                                                                                                                                                           | 53-PDIT-5558  | DIFFERENTIAL PRESSURE TRANSMITTER              | 17039-ND-P-DW-0212-01 | ACROSS -ND- MAJ-3210 A                                                                            | DCS    | AI       | 7/FV                      | 80                | 3                            | AMB                  | MPC-3 | 1/2" NPT              | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1878                                                                                                                                                                                                                                           | 53-PDIT-5559  | DIFFERENTIAL PRESSURE TRANSMITTER              | 17039-ND-P-DW-0212-01 | ACROSS -ND- MAJ-3210 A                                                                            | DCS    | AI       | 7/FV                      | 80                | 3                            | AMB                  | MPC-3 | 1/2" NPT              | SS316                             | *            | *         | -              | A    | -      |  |  |
| 1879                                                                                                                                                                                                                                           | 53-PSV-5538A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0212-01 | 2"-WP-53-5506-AC01                                                                                | N/A    | N/A      | 7/FV                      | 80                | 3                            | AMB                  |       |                       |                                   |              |           |                |      |        |  |  |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|-----------------------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|---------------|---------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                                                |              |                                              |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |                       |          |                           |                   |                              |                      |       |               |                                 |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                                                |              |                                              |                       |                                                                                                   |                       |          |                           |                   |                              |                      |       |               |                                 |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                                           | Tag No       | INSTRUMENT DESCRIPTION                       | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM                | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 1892                                                                                                                                                                                                                                           | 53-ZSH-5636  | LIMIT SWITCH HIGH                            | 17039-ND-P-DW-0212-01 | N/A                                                                                               | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |
| 1893                                                                                                                                                                                                                                           | 53-HS-5522   | UNIT SHUTDOWN                                | 17039-ND-P-DW-0212-03 | ND-ZZZ-3240A                                                                                      | DCS                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1894                                                                                                                                                                                                                                           | 53-YL-5523   | RUNNING LIGHT                                | 17039-ND-P-DW-0212-03 | ND-ZZZ-3240A                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1895                                                                                                                                                                                                                                           | 53-HS-5526   | UNIT SHUTDOWN                                | 17039-ND-P-DW-0212-03 | ND-ZZZ-3240B                                                                                      | DCS                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1896                                                                                                                                                                                                                                           | 53-YL-5527   | RUNNING LIGHT                                | 17039-ND-P-DW-0212-03 | ND-ZZZ-3240B                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1897                                                                                                                                                                                                                                           | 53-HS-5521   | UNIT SHUTDOWN                                | 17039-ND-P-DW-0212-03 | ND-ZZZ-3240A                                                                                      | ESD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1898                                                                                                                                                                                                                                           | 53-HS-5525   | UNIT SHUTDOWN                                | 17039-ND-P-DW-0212-03 | ND-ZZZ-3240B                                                                                      | ESD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1899                                                                                                                                                                                                                                           | 53-FV-5529   | FLOW CONTROL VALVE                           | 17039-ND-P-DW-0212-04 | 2"-WD-53-5538-AS20                                                                                | N/A                   | N/A      | 10/FV                     | 80                | 5.8                          | AMB                  | MPC-3 | 1"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |
| 1900                                                                                                                                                                                                                                           | 53-FY-5529   | POSITIONER                                   | 17039-ND-P-DW-0212-04 | N/A                                                                                               | DCS                   | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS316                           | *            | *         | -              | A    | -      |
| 1901                                                                                                                                                                                                                                           | 53-PI-5530A  | PRESSURE INDICATOR                           | 17039-ND-P-DW-0212-04 | N/A                                                                                               | N/A                   | N/A      | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |
| 1902                                                                                                                                                                                                                                           | 53-PIT-5531A | PRESSURE TRANSMITTER                         | 17039-ND-P-DW-0212-04 | N/A                                                                                               | USD                   | AI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/2" NPT      | SS 316                          | *            | *         | -              | A    | -      |
| 1903                                                                                                                                                                                                                                           | 53-FIT-5529  | MAGNETIC TYPE FLOW TRANSMITTER               | 17039-ND-P-DW-0212-04 | 3"-WD-53-5531-AS20                                                                                | DCS                   | AI       | 10                        | 80                | 4                            | AMB                  | MPC-3 | 3"/150#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1904                                                                                                                                                                                                                                           | 53-PI-5530B  | PRESSURE INDICATOR                           | 17039-ND-P-DW-0212-04 | N/A                                                                                               | N/A                   | N/A      | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |
| 1905                                                                                                                                                                                                                                           | 53-PIT-5531B | PRESSURE TRANSMITTER                         | 17039-ND-P-DW-0212-04 | N/A                                                                                               | USD                   | AI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/2" NPT      | SS 316                          | *            | *         | -              | A    | -      |
| 1906                                                                                                                                                                                                                                           | 53-XC-3250A  | START / STOP                                 | 17039-ND-P-DW-0212-04 | ND-PBA-3250A                                                                                      | DCS                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1907                                                                                                                                                                                                                                           | 53-XI-3250A  | RUNNING                                      | 17039-ND-P-DW-0212-04 | ND-PBA-3250A                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1908                                                                                                                                                                                                                                           | 53-XA-3250A  | FAULT ALARM                                  | 17039-ND-P-DW-0212-04 | ND-PBA-3250A                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1909                                                                                                                                                                                                                                           | 53-XE-3250A  | AVAILABLE                                    | 17039-ND-P-DW-0212-04 | ND-PBA-3250A                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1910                                                                                                                                                                                                                                           | 53-XB-3250A  | TRIP FEEDBACK                                | 17039-ND-P-DW-0212-04 | ND-PBA-3250A                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1911                                                                                                                                                                                                                                           | 53-XS-3250A  | SHUTDOWN TRIP                                | 17039-ND-P-DW-0212-04 | ND-PBA-3250A                                                                                      | PSD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1912                                                                                                                                                                                                                                           | 53-XXS-3250A | SHUTDOWN TRIP                                | 17039-ND-P-DW-0212-04 | ND-PBA-3250B                                                                                      | ESD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1913                                                                                                                                                                                                                                           | 53-XC-3250B  | START / STOP                                 | 17039-ND-P-DW-0212-04 | ND-PBA-3250B                                                                                      | DCS                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1914                                                                                                                                                                                                                                           | 53-XI-3250B  | RUNNING                                      | 17039-ND-P-DW-0212-04 | ND-PBA-3250B                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1915                                                                                                                                                                                                                                           | 53-XA-3250B  | FAULT ALARM                                  | 17039-ND-P-DW-0212-04 | ND-PBA-3250B                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1916                                                                                                                                                                                                                                           | 53-XE-3250B  | AVAILABLE                                    | 17039-ND-P-DW-0212-04 | ND-PBA-3250B                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1917                                                                                                                                                                                                                                           | 53-XB-3250B  | TRIP FEEDBACK                                | 17039-ND-P-DW-0212-04 | ND-PBA-3250B                                                                                      | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1918                                                                                                                                                                                                                                           | 53-XS-3250B  | SHUTDOWN TRIP                                | 17039-ND-P-DW-0212-04 | ND-PBA-3250B                                                                                      | PSD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1919                                                                                                                                                                                                                                           | 53-XXS-3250B | SHUTDOWN TRIP                                | 17039-ND-P-DW-0212-04 | ND-PBA-3250B                                                                                      | ESD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 1920                                                                                                                                                                                                                                           | 53-SDV-5607  | SHUTDOWN VALVE                               | 17039-ND-P-DW-0212-04 | 3"-WP-53-5534-AS20                                                                                | WATER, FRESH, POTABLE | N/A      | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-3 | 3"/150# RF    | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |
| 1921                                                                                                                                                                                                                                           | 53-SXV-5607  | SOLENOID VALVE                               | 17039-ND-P-DW-0212-04 | N/A                                                                                               | USD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/4" NPT      | SS 316                          | *            | *         | -              | A    | -      |
| 1922                                                                                                                                                                                                                                           | 53-ZSL-5607  | LIMIT SWITCH LOW                             | 17039-ND-P-DW-0212-04 | N/A                                                                                               | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |
| 1923                                                                                                                                                                                                                                           | 53-ZSH-5607  | LIMIT SWITCH HIGH                            | 17039-ND-P-DW-0212-04 | N/A                                                                                               | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |
| 1924                                                                                                                                                                                                                                           | 53-SDV-5630  | SHUTDOWN VALVE                               | 17039-ND-P-DW-0212-04 | 4"-WP-53-5611B-AC01                                                                               | WATER, FRESH, POTABLE | N/A      | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-3 | 3"/150# RF    | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |
| 1925                                                                                                                                                                                                                                           | 53-SXV-5630  | SOLENOID VALVE                               | 17039-ND-P-DW-0212-04 | N/A                                                                                               | USD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | 1/4" NPT      | SS 316                          | *            | *         | -              | A    | -      |
| 1926                                                                                                                                                                                                                                           | 53-ZSL-5630  | LIMIT SWITCH LOW                             | 17039-ND-P-DW-0212-04 | N/A                                                                                               | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |
| 1927                                                                                                                                                                                                                                           | 53-ZSH-5630  | LIMIT SWITCH HIGH                            | 17039-ND-P-DW-0212-04 | N/A                                                                                               | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-3 | N/A           | SS 316                          | *            | *         | -              | A    | -      |
| 1928                                                                                                                                                                                                                                           | 53-LG-5544   | REFLEX TYPE LEVEL INDICATOR                  | 17039-ND-P-DW-0212-04 | ND-ABJ-3270                                                                                       | POTABLE WATER         | N/A      | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-3 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1929                                                                                                                                                                                                                                           | 53-LG-5535   | REFLEX TYPE LEVEL INDICATOR                  | 17039-ND-P-DW-0212-04 | ND-ABJ-3270                                                                                       | POTABLE WATER         | N/A      | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-3 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1930                                                                                                                                                                                                                                           | 53-LIT-5538  | DP TYPE LEVEL TRANSMITTER                    | 17039-ND-P-DW-0212-04 | ND-ABJ-3270                                                                                       | USD                   | AI       | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-3 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1931                                                                                                                                                                                                                                           | 53-LIT-5541  | DP TYPE LEVEL TRANSMITTER                    | 17039-ND-P-DW-0212-04 | ND-ABJ-3270                                                                                       | USD                   | AI       | FOW+0.07                  | 80                | ATM                          | AMB                  | MPC-3 | 2"/150#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1932                                                                                                                                                                                                                                           | 64-SDV-5032  | SHUTDOWN VALVE                               | 17039-ND-P-DW-0213-01 | 2"-GN-64-6643-AG01                                                                                | N/A                   | N/A      | 13.5                      | 85                | 6-9                          | 51                   | MPC-2 | 2"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |
| 1933                                                                                                                                                                                                                                           | 64-SXV-5032  | SOLENOID VALVE                               | 17039-ND-P-DW-0213-01 | N/A                                                                                               | PSD                   | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT      | SS316                           | *            | *         | -              | A    | -      |
| 1934                                                                                                                                                                                                                                           | 64-ZIL-5032  | LIMIT SWITCH LOW                             | 17039-ND-P-DW-0213-01 | N/A                                                                                               | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          | *            | *         | -              | A    | -      |
| 1935                                                                                                                                                                                                                                           | 64-ZIH-5032  | LIMIT SWITCH HIGH                            | 17039-ND-P-DW-0213-01 | N/A                                                                                               | DCS                   | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A           | SS 316                          | *            | *         | -              | A    | -      |
| 1936                                                                                                                                                                                                                                           | 45-PCV-5500  | PRESSURE REGULATOR                           | 17039-ND-P-DW-0213-01 | 2"-GN-41-5501-BC01-3N                                                                             | N/A                   | N/A      | 13.5                      | 85                | 6-9                          | 51                   | MPC-2 | 2"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |
| 1937                                                                                                                                                                                                                                           | 41-FT-3746   | DP TYPE FLOW TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0213-01 | 4"-HM-41-3750-BC01-3N                                                                             | DCS                   | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1938                                                                                                                                                                                                                                           | 41-FE-3746   | FLOW ELEMENT (ORIFICE PLATE)                 | 17039-ND-P-DW-0213-01 | 4"-HM-41-3750-BC01-3N                                                                             | N/A                   | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 4"/300#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1939                                                                                                                                                                                                                                           | 41-PT-3742B  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL     | 17039-ND-P-DW-0213-01 | 4"-HM-41-3749-BC01-3N                                                                             | PSD                   | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1940                                                                                                                                                                                                                                           | 41-PI-3741B  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL       | 17039-ND-P-DW-0213-01 | 4"-HM-41-3749-BC01-3N                                                                             | N/A                   | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300#RF     | SS316                           | *            | *         | -              | A    | -      |
| 1941                                                                                                                                                                                                                                           | 41-PT-3742A  | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL     | 17039-ND-P-DW-0213-01 | 4"-HM-41-3748-BC01-3N                                                                             | PSD                   | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300#RF     | SS316</                         |              |           |                |      |        |

| <div><div><div>KAVIN™</div></div><div><div>ऑयल इंडिया लिमिटेड<br/>Oil India Limited</div></div></div> <div>CLIENT : OIL INDIA LIMITED</div> |              |                                               |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                 |              |           | DOC NO. :      |      |        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|---------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                                                            |              |                                               |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                 |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                                                                                                                            |              |                                               |                       | DATE :                                                                                            |        |          |                           |                   |                              |                      |       |                |                                 |              |           |                |      |        |  |
| S.No                                                                                                                                                                                                                                                                                                       | Tag No       | INSTRUMENT DESCRIPTION                        | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 1953                                                                                                                                                                                                                                                                                                       | 41-PSV-3750A | PRESSURE SAFETY VALVE                         | 17039-ND-P-DW-0213-01 | 2"-HM-41-3753-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1" D 2"/300#RF | SS316                           | *            | *         | -              | A    | -      |  |
| 1954                                                                                                                                                                                                                                                                                                       | 41-PSV-3750B | PRESSURE SAFETY VALVE                         | 17039-ND-P-DW-0213-01 | 2"-HM-41-3753A-BC01-3N                                                                            | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1" D 2"/300#RF | SS316                           | *            | *         | -              | A    | -      |  |
| 1955                                                                                                                                                                                                                                                                                                       | 45-FV-3746   | FLOW CONTROL VALVE                            | 17039-ND-P-DW-0213-01 | 3"-HM-41-3763-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1956                                                                                                                                                                                                                                                                                                       | 45-FY-3746   | POSITIONER                                    | 17039-ND-P-DW-0213-01 | N/A                                                                                               | DCS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 2"/300#RF      | SS316                           | *            | *         | -              | A    | -      |  |
| 1957                                                                                                                                                                                                                                                                                                       | 41-PCV-5501  | PRESSURE CONTROL VALVE                        | 17039-ND-P-DW-0213-01 | 2"-GF-43-4263-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1"/300#RF      | SS316                           | *            | *         | -              | A    | -      |  |
| 1958                                                                                                                                                                                                                                                                                                       | 41-PSV-3740A | PRESSURE SAFETY VALVE                         | 17039-ND-P-DW-0213-01 | 2"-HM-41-3754-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1" D 2"/300#RF | SS316                           | *            | *         | -              | A    | -      |  |
| 1959                                                                                                                                                                                                                                                                                                       | 41-PSV-3740B | PRESSURE SAFETY VALVE                         | 17039-ND-P-DW-0213-01 | 2"-HM-41-3755-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1" D 2"/300#RF | SS316                           | *            | *         | -              | A    | -      |  |
| 1960                                                                                                                                                                                                                                                                                                       | 41-XC-3350B  | START / STOP                                  | 17039-ND-P-DW-0213-01 | ND-PM-3350B                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 1961                                                                                                                                                                                                                                                                                                       | 41-XI-3350B  | RUNNING                                       | 17039-ND-P-DW-0213-01 | ND-PM-3350B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 1962                                                                                                                                                                                                                                                                                                       | 41-XB-3350B  | FAULT ALARM                                   | 17039-ND-P-DW-0213-01 | ND-PM-3350B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 1963                                                                                                                                                                                                                                                                                                       | 41-XE-3350B  | AVAILABLE                                     | 17039-ND-P-DW-0213-01 | ND-PM-3350B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 1964                                                                                                                                                                                                                                                                                                       | 41-XB-3350B  | TRIP FEEDBACK                                 | 17039-ND-P-DW-0213-01 | ND-PM-3350B                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 1965                                                                                                                                                                                                                                                                                                       | 41-XS-3350B  | SHUTDOWN TRIP                                 | 17039-ND-P-DW-0213-01 | ND-PM-3350B                                                                                       | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 1966                                                                                                                                                                                                                                                                                                       | 41-XXS-3350B | SHUTDOWN TRIP                                 | 17039-ND-P-DW-0213-01 | ND-PM-3350B                                                                                       | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 1967                                                                                                                                                                                                                                                                                                       | 41-LG-3737   | MAGNETIC TYPE LEVEL INDICATOR                 | 17039-ND-P-DW-0213-01 | ND-MBD-3310                                                                                       | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300# RF     | SS316                           | *            | *         | -              | A    | -      |  |
| 1968                                                                                                                                                                                                                                                                                                       | 41-PT-3739   | PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL      | 17039-ND-P-DW-0213-01 | ND-MBD-3310                                                                                       | PSD    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300# RF     | SS 316                          | *            | *         | -              | A    | -      |  |
| 1969                                                                                                                                                                                                                                                                                                       | 41-PI-3738   | PRESSURE INDICATOR WITH DIAPHRAGM SEAL        | 17039-ND-P-DW-0213-01 | ND-MBD-3310                                                                                       | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2" 300# RF     | SS 316                          | *            | *         | -              | A    | -      |  |
| 1970                                                                                                                                                                                                                                                                                                       | 41-LT-3736   | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0213-01 | ND-MBD-3310                                                                                       | PSD    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300#RF      | SS316                           | *            | *         | -              | A    | -      |  |
| 1971                                                                                                                                                                                                                                                                                                       | 41-LT-3733   | DP TYPE LEVEL TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0213-01 | ND-MBD-3310                                                                                       | DCS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300#RF      | SS316                           | *            | *         | -              | A    | -      |  |
| 1972                                                                                                                                                                                                                                                                                                       | 41-TW-3734   | THERMOWELL                                    | 17039-ND-P-DW-0213-01 | ND-MBD-3310                                                                                       | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/300#RF      | SS 316                          | *            | *         | -              | A    | -      |  |
| 1973                                                                                                                                                                                                                                                                                                       | 41-TI-3734   | TEMPERATURE INDICATOR                         | 17039-ND-P-DW-0213-01 | ND-MBD-3310                                                                                       | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2"NPTM       | SS 316                          | *            | *         | -              | A    | -      |  |
| 1974                                                                                                                                                                                                                                                                                                       | 63-PT-6423   | PRESSURE TRANSMITTER                          | 17039-ND-P-DW-0213-02 | 2"-UA-63-6424-AG01                                                                                | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 1975                                                                                                                                                                                                                                                                                                       | 45-FT-5503   | DP TYPE FLOW TRANSMITTER                      | 17039-ND-P-DW-0213-02 | 2"-FG-45-5509-AC01                                                                                | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 1976                                                                                                                                                                                                                                                                                                       | 45-FE-5503   | FLOW ELEMENT (ORIFICE PLATE)                  | 17039-ND-P-DW-0213-02 | 2"-FG-45-5509-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | SS 316                          | *            | *         | -              | A    | -      |  |
| 1977                                                                                                                                                                                                                                                                                                       | 45-FV-5503   | FLOW CONTROL VALVE                            | 17039-ND-P-DW-0213-02 | 2"-FG-45-5504-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1978                                                                                                                                                                                                                                                                                                       | 41-SXV-5503  | SOLENOID VALVE                                | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 1979                                                                                                                                                                                                                                                                                                       | 45-FY-5503   | POSITIONER                                    | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 1980                                                                                                                                                                                                                                                                                                       | 41-TT-3755   | TEMPERATURE TRANSMITTER                       | 17039-ND-P-DW-0213-02 | OUTLET OF ND-MBK-33760A                                                                           | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 1981                                                                                                                                                                                                                                                                                                       | 41-TW-3755   | THERMOWELL                                    | 17039-ND-P-DW-0213-02 | OUTLET OF ND-MBK-33760A                                                                           | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1 1/2"/300#RF  | SS316                           | *            | *         | -              | A    | -      |  |
| 1982                                                                                                                                                                                                                                                                                                       | 41-SDV-3764  | SHUTDOWN VALVE                                | 17039-ND-P-DW-0213-02 | 4"-HM-41-3750-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 4" /300#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1983                                                                                                                                                                                                                                                                                                       | 41-SXV-3764  | SOLENOID VALVE                                | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 1984                                                                                                                                                                                                                                                                                                       | 41-ZSL-3764  | LIMIT SWITCH LOW                              | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 1985                                                                                                                                                                                                                                                                                                       | 41-ZSH-3764  | LIMIT SWITCH HIGH                             | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 1986                                                                                                                                                                                                                                                                                                       | 64-PCV-6661  | PRESSURE CONTROL VALVE                        | 17039-ND-P-DW-0213-02 | 2"-FG-45-5509-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1"/150# RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1987                                                                                                                                                                                                                                                                                                       | 41-TT-3756   | TEMPERATURE TRANSMITTER                       | 17039-ND-P-DW-0213-02 | OUTLET OF ND-MBK-3360A                                                                            | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 1988                                                                                                                                                                                                                                                                                                       | 41-TW-3756   | THERMOWELL                                    | 17039-ND-P-DW-0213-02 | OUTLET OF ND-MBK-3360A                                                                            | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1 1/2"/300#RF  | SS316                           | *            | *         | -              | A    | -      |  |
| 1989                                                                                                                                                                                                                                                                                                       | 45-SDV-5506  | SHUTDOWN VALVE                                | 17039-ND-P-DW-0213-02 | 2"-FG-45-5505-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1990                                                                                                                                                                                                                                                                                                       | 45-SXV-5506  | SOLENOID VALVE                                | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 1991                                                                                                                                                                                                                                                                                                       | 45-ZSL-5506  | LIMIT SWITCH LOW                              | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 1992                                                                                                                                                                                                                                                                                                       | 45-ZSH-5506  | LIMIT SWITCH HIGH                             | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 1993                                                                                                                                                                                                                                                                                                       | 45-SDV-8013  | SHUTDOWN VALVE                                | 17039-ND-P-DW-0213-02 | 2"-FG-45-5505-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 1994                                                                                                                                                                                                                                                                                                       | 45-SXV-8013  | SOLENOID VALVE                                | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 1995                                                                                                                                                                                                                                                                                                       | 45-ZSL-8013  | LIMIT SWITCH LOW                              | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 1996                                                                                                                                                                                                                                                                                                       | 45-ZSH-8013  | LIMIT SWITCH HIGH                             | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 1997                                                                                                                                                                                                                                                                                                       | 45-SDV-8010  | SHUTDOWN VALVE                                | 17039-ND-P-DW-0213-02 | 2"-FG-45-5504-AC01                                                                                |        |          |                           |                   |                              |                      |       |                |                                 |              |           |                |      |        |  |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|---------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                         |              |                                                       |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                 |              | REV NO. : |                |      |        |  |
|                                                                                                                                                                                                                         |              |                                                       |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                 |              | DATE :    |                |      |        |  |
| S.No                                                                                                                                                                                                                    | Tag No       | INSTRUMENT DESCRIPTION                                | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 2014                                                                                                                                                                                                                    | 45-XY-5512   | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2015                                                                                                                                                                                                                    | 45-ZSL-5512  | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2016                                                                                                                                                                                                                    | 45-ZSH-5512  | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2017                                                                                                                                                                                                                    | 45-XV-5513   | ON/OFF VALVE                                          | 17039-ND-P-DW-0213-02 | 2"-FG-45-5504-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2018                                                                                                                                                                                                                    | 45-XY-5513   | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2019                                                                                                                                                                                                                    | 45-ZSL-5513  | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2020                                                                                                                                                                                                                    | 45-ZSH-5513  | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2021                                                                                                                                                                                                                    | 45-BSL-5507  | BURNER SWITCH                                         | 17039-ND-P-DW-0213-02 | BURNER                                                                                            | BMS    | DI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2022                                                                                                                                                                                                                    | 45-XI-5509   | BURNER ON / OFF                                       | 17039-ND-P-DW-0213-02 | BMS TO PCS                                                                                        | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2023                                                                                                                                                                                                                    | 45-XA-5509   | BURNER FAIL                                           | 17039-ND-P-DW-0213-02 | BMS TO PCS                                                                                        | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2024                                                                                                                                                                                                                    | 45-HS-5509   | BURNER STOP                                           | 17039-ND-P-DW-0213-02 | BMS TO PCS                                                                                        | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2025                                                                                                                                                                                                                    | 63-XC-3370A  | START / STOP                                          | 17039-ND-P-DW-0213-02 | ND-PM-3370A                                                                                       | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2026                                                                                                                                                                                                                    | 63-XI-3370A  | RUNNING                                               | 17039-ND-P-DW-0213-02 | ND-PM-3370A                                                                                       | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2027                                                                                                                                                                                                                    | 63-XA-3370A  | FAULT ALARM                                           | 17039-ND-P-DW-0213-02 | ND-PM-3370A                                                                                       | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2028                                                                                                                                                                                                                    | 63-XE-3370A  | AVAILABLE                                             | 17039-ND-P-DW-0213-02 | ND-PM-3370A                                                                                       | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2029                                                                                                                                                                                                                    | 63-XB-3370A  | TRIP FEEDBACK                                         | 17039-ND-P-DW-0213-02 | ND-PM-3370A                                                                                       | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2030                                                                                                                                                                                                                    | 63-XS-3370A  | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0213-02 | ND-PM-3370A                                                                                       | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2031                                                                                                                                                                                                                    | 63-XXS-3370A | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0213-02 | ND-PM-3370A                                                                                       | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2032                                                                                                                                                                                                                    | 63-FV-6425   | FLOW CONTROL VALVE                                    | 17039-ND-P-DW-0213-02 | 2"-UA-63-6424-AG01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2033                                                                                                                                                                                                                    | 41-SXV-6425  | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2034                                                                                                                                                                                                                    | 63-FY-6425   | POSITIONER                                            | 17039-ND-P-DW-0213-02 | N/A                                                                                               | BMS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2035                                                                                                                                                                                                                    | 45-TT-5508   | TEMPERATURE TRANSMITTER                               | 17039-ND-P-DW-0213-02 | ND-MBK-33760A                                                                                     | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 2036                                                                                                                                                                                                                    | 45-TW-5508   | THERMOWELL                                            | 17039-ND-P-DW-0213-02 | ND-MBK-33760A                                                                                     | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | SS316                           | *            | *         | -              | A    | -      |  |
| 2037                                                                                                                                                                                                                    | 41-PSV-3757A | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0213-02 | 2"-HM-3769-BC01-3N                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1" D 2"/150#RF | SS316                           | *            | *         | -              | A    | -      |  |
| 2038                                                                                                                                                                                                                    | 41-PSV-3757B | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0213-02 | 2"-HM-3770-BC01-3N                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1" D 2"/150#RF | SS316                           | *            | *         | -              | A    | -      |  |
| 2039                                                                                                                                                                                                                    | 41-TI-3751   | TEMPERATURE INDICATOR                                 | 17039-ND-P-DW-0213-02 | 4"-HM-41-3750-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2"NPTM       | SS316                           | *            | *         | -              | A    | -      |  |
| 2040                                                                                                                                                                                                                    | 41-TW-3751   | THERMOWELL                                            | 17039-ND-P-DW-0213-02 | 4"-HM-41-3750-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1 1/2"/150#RF  | SS316                           | *            | *         | -              | A    | -      |  |
| 2041                                                                                                                                                                                                                    | 41-PDT-3753  | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0213-02 | ACROSS ND-MBK-3360A                                                                               | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | SS316                           | *            | *         | -              | A    | -      |  |
| 2042                                                                                                                                                                                                                    | 63-PT-6429   | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0213-03 | 2"-UA-63-6428-AG01                                                                                | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 2043                                                                                                                                                                                                                    | 45-FT-5515   | DP TYPE FLOW TRANSMITTER                              | 17039-ND-P-DW-0213-03 | 2"-FG-45-5507-AC01                                                                                | DCS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2"NPTF       | SS 316                          | *            | *         | -              | A    | -      |  |
| 2044                                                                                                                                                                                                                    | 45-FE-5515   | FLOW ELEMENT (ORIFICE PLATE)                          | 17039-ND-P-DW-0213-03 | 2"-FG-45-5507-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 2045                                                                                                                                                                                                                    | 45-FV-5503   | FLOW CONTROL VALVE                                    | 17039-ND-P-DW-0213-03 | 2"-FG-45-5507-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2046                                                                                                                                                                                                                    | 45-SXV-5503  | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2047                                                                                                                                                                                                                    | 45-FY-5503   | POSITIONER                                            | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2048                                                                                                                                                                                                                    | 41-TT-3772   | TEMPERATURE TRANSMITTER                               | 17039-ND-P-DW-0213-03 | 4"-HM-41-3787-BC01-1N                                                                             | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 2049                                                                                                                                                                                                                    | 41-TW-3772   | THERMOWELL                                            | 17039-ND-P-DW-0213-03 | 4"-HM-41-3787-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1 1/2"/300#RF  | SS316                           | *            | *         | -              | A    | -      |  |
| 2050                                                                                                                                                                                                                    | 41-SDV-3766  | SHUTDOWN VALVE                                        | 17039-ND-P-DW-0213-03 | 4"-HM-41-3786-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 4" /300#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2051                                                                                                                                                                                                                    | 41-SXV-3766  | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2052                                                                                                                                                                                                                    | 41-ZSL-3766  | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2053                                                                                                                                                                                                                    | 41-ZSH-3766  | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2054                                                                                                                                                                                                                    | 64-PCV-8013  | PRESSURE CONTROL VALVE                                | 17039-ND-P-DW-0213-03 | 2"-FG-45-5509-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1"/150# RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2055                                                                                                                                                                                                                    | 41-TT-3773   | TEMPERATURE TRANSMITTER                               | 17039-ND-P-DW-0213-03 | 4"-HM-41-3787-BC01-1N                                                                             | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 2056                                                                                                                                                                                                                    | 41-TW-3773   | THERMOWELL                                            | 17039-ND-P-DW-0213-03 | 4"-HM-41-3787-BC01-1N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1 1/2"/300#RF  | SS316                           | *            | *         | -              | A    | -      |  |
| 2057                                                                                                                                                                                                                    | 45-SDV-5520  | SHUTDOWN VALVE                                        | 17039-ND-P-DW-0213-03 | 2"-FG-45-5508-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2058                                                                                                                                                                                                                    | 45-SXV-5520  | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2059                                                                                                                                                                                                                    | 45-ZSL-5520  | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 2060                                                                                                                                                                                                                    | 45-ZSH-5520  | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 2061                                                                                                                                                                                                                    | 45-SDV-8057  | SHUTDOWN VALVE                                        | 17039-ND-P-DW-0213-03 | 2"-FG-45-5508-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2062                                                                                                                                                                                                                    | 45-SXV-8057  | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DO       |                           |                   |                              |                      |       |                |                                 |              |           |                |      |        |  |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|---------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                            |              |                                                       |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                 |              |           | REV NO. :      |      |        |  |
|                                                                                                                                                                                                                                                                            |              |                                                       |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                 |              |           | DATE :         |      |        |  |
| S.No                                                                                                                                                                                                                                                                       | Tag No       | INSTRUMENT DESCRIPTION                                | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 2075                                                                                                                                                                                                                                                                       | 64-PCV-5516  | PRESSURE CONTROL VALVE                                | 17039-ND-P-DW-0213-03 | 2"-FG-45-5508-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1"/150# RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2076                                                                                                                                                                                                                                                                       | 45-PI-8014   | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0213-03 | 2"-FG-45-5507-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 2077                                                                                                                                                                                                                                                                       | 45-PSL-8018  | PRESSURE SWITCH LOW                                   | 17039-ND-P-DW-0213-03 | 2"-FG-45-5508-AC01                                                                                | BMS    | DI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2078                                                                                                                                                                                                                                                                       | 45-PSL-8015  | PRESSURE SWITCH LOW                                   | 17039-ND-P-DW-0213-03 | 2"-FG-45-5507-AC01                                                                                | BMS    | DI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2079                                                                                                                                                                                                                                                                       | 63-PSL-6428  | PRESSURE SWITCH LOW                                   | 17039-ND-P-DW-0213-03 | 2"-UA-63-6428-AG01                                                                                | BMS    | DI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2080                                                                                                                                                                                                                                                                       | 45-PSH-8016  | PRESSURE SWITCH HIGH                                  | 17039-ND-P-DW-0213-03 | 2"-FG-45-5507-AC01                                                                                | BMS    | DI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2081                                                                                                                                                                                                                                                                       | 45-XV-5518   | ON/OFF VALVE                                          | 17039-ND-P-DW-0213-03 | 2"-FG-45-5508-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2082                                                                                                                                                                                                                                                                       | 45-XY-5518   | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 2083                                                                                                                                                                                                                                                                       | 45-ZSL-5518  | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 2084                                                                                                                                                                                                                                                                       | 45-ZSH-5518  | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 2085                                                                                                                                                                                                                                                                       | 45-XV-5517   | ON/OFF VALVE                                          | 17039-ND-P-DW-0213-03 | 2"-FG-45-5507-AC01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2086                                                                                                                                                                                                                                                                       | 45-XY-5517   | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 2087                                                                                                                                                                                                                                                                       | 45-ZSL-5517  | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 2088                                                                                                                                                                                                                                                                       | 45-ZSH-5517  | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS 316                          | *            | *         | -              | A    | -      |  |
| 2089                                                                                                                                                                                                                                                                       | 45-BSL-5521  | BURNER SWITCH                                         | 17039-ND-P-DW-0213-03 | BURNER                                                                                            | BMS    | DI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2090                                                                                                                                                                                                                                                                       | 45-XI-5522   | BURNER ON / OFF                                       | 17039-ND-P-DW-0213-03 | BMS TO PCS                                                                                        | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2091                                                                                                                                                                                                                                                                       | 45-XA-5522   | BURNER FAIL                                           | 17039-ND-P-DW-0213-03 | BMS TO PCS                                                                                        | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2092                                                                                                                                                                                                                                                                       | 45-HS-5522   | BURNER STOP                                           | 17039-ND-P-DW-0213-03 | BMS TO PCS                                                                                        | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2093                                                                                                                                                                                                                                                                       | 63-XC-3380B  | START / STOP                                          | 17039-ND-P-DW-0213-03 | ND-PM-3370B                                                                                       | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2094                                                                                                                                                                                                                                                                       | 63-XI-3380B  | RUNNING                                               | 17039-ND-P-DW-0213-03 | ND-PM-3370B                                                                                       | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2095                                                                                                                                                                                                                                                                       | 63-XB-3380B  | FAULT ALARM                                           | 17039-ND-P-DW-0213-03 | ND-PM-3370B                                                                                       | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2096                                                                                                                                                                                                                                                                       | 63-XE-3380B  | AVAILABLE                                             | 17039-ND-P-DW-0213-03 | ND-PM-3370B                                                                                       | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2097                                                                                                                                                                                                                                                                       | 63-XB-3380B  | TRIP FEEDBACK                                         | 17039-ND-P-DW-0213-03 | ND-PM-3370B                                                                                       | BMS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2098                                                                                                                                                                                                                                                                       | 63-XS-3380B  | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0213-03 | ND-PM-3370B                                                                                       | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2099                                                                                                                                                                                                                                                                       | 63-XXS-3380B | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0213-03 | ND-PM-3370B                                                                                       | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2100                                                                                                                                                                                                                                                                       | 63-FV-6430   | FLOW CONTROL VALVE                                    | 17039-ND-P-DW-0213-03 | 2"-UA-63-6428-AG01                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1"/150#RF      | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |  |
| 2101                                                                                                                                                                                                                                                                       | 45-SXV-6430  | SOLENOID VALVE                                        | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -      |  |
| 2102                                                                                                                                                                                                                                                                       | 63-FY-6430   | POSITIONER                                            | 17039-ND-P-DW-0213-03 | N/A                                                                                               | BMS    | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | SS316                           | *            | *         | -              | A    | -      |  |
| 2103                                                                                                                                                                                                                                                                       | 45-TT-5523   | TEMPERATURE TRANSMITTER                               | 17039-ND-P-DW-0213-03 | ND-MBK-3360B                                                                                      | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 2104                                                                                                                                                                                                                                                                       | 45-TW-5523   | THERMOWELL                                            | 17039-ND-P-DW-0213-03 | ND-MBK-3360B                                                                                      | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | SS316                           | *            | *         | -              | A    | -      |  |
| 2105                                                                                                                                                                                                                                                                       | 41-PSV-3765A | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0213-03 | 2"-HM-3791-BC01-3N                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1" D 2"/150#RF | SS316                           | *            | *         | -              | A    | -      |  |
| 2106                                                                                                                                                                                                                                                                       | 41-PSV-3765B | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0213-03 | 2"-HM-3792-BC01-3N                                                                                | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1" D 2"/150#RF | SS316                           | *            | *         | -              | A    | -      |  |
| 2107                                                                                                                                                                                                                                                                       | 41-TI-3767   | TEMPERATURE INDICATOR                                 | 17039-ND-P-DW-0213-03 | 4"-HM-41-3786-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1/2"NPTM       | SS316                           | *            | *         | -              | A    | -      |  |
| 2108                                                                                                                                                                                                                                                                       | 41-TW-3767   | THERMOWELL                                            | 17039-ND-P-DW-0213-03 | 4"-HM-41-3786-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 1 1/2"/150#RF  | SS316                           | *            | *         | -              | A    | -      |  |
| 2109                                                                                                                                                                                                                                                                       | 41-PDT-3770  | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0213-03 | ACROSS ND-MBK-3360B                                                                               | BMS    | AI       | 12/FV                     | 250               | 6.5                          | 100                  | MPC-2 | 2"/150#RF      | SS 316                          | *            | *         | -              | A    | -      |  |
| 2110                                                                                                                                                                                                                                                                       | 41-PI-3761A  | PRESSURE INDICATOR WITH DIAPHRAGM SEAL                | 17039-ND-P-DW-0213-04 | ND-MBD-332A                                                                                       | N/A    | N/A      | 3.5/FV                    | 250               | ATM                          | 100- '200            | MPC-2 | 2"/150# RF     | SS 316                          | *            | *         | -              | A    | -      |  |
| 2111                                                                                                                                                                                                                                                                       | 41-PG-6202   | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0213-04 | ND-MBD-3320                                                                                       | N/A    | N/A      | 3.5/FV                    | 250               | ATM                          | 100- '200            | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 2112                                                                                                                                                                                                                                                                       | 41-PIT-6201  | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0213-04 | ND-MBD-3320                                                                                       | PSD    | AI       | 3.5/FV                    | 250               | ATM                          | 100- '200            | MPC-2 | 2"/150# RF     | SS 316                          | *            | *         | -              | A    | -      |  |
| 2113                                                                                                                                                                                                                                                                       | 41-LIT-6203  | ULTRA SONIC TYPE LEVEL TRANSMITTER                    | 17039-ND-P-DW-0213-04 | ND-MBD-332A                                                                                       | DCS    | AI       | 3.5/FV                    | 250               | ATM                          | 100- '200            | MPC-2 | 3" /150# RF    | SS 316                          | *            | *         | -              | A    | -      |  |
| 2114                                                                                                                                                                                                                                                                       | 41-TW-3608   | THERMOWELL                                            | 17039-ND-P-DW-0213-04 | ND-MBD-332A                                                                                       | N/A    | N/A      | 3.5/FV                    | 250               | ATM                          | 100- '200            | MPC-2 | 2" /150# RF    | SS 316                          | *            | *         | -              | A    | -      |  |
| 2115                                                                                                                                                                                                                                                                       | 41-PI-3608   | TEMPERATURE INDICATOR                                 | 17039-ND-P-DW-0213-04 | ND-MBD-332A                                                                                       | N/A    | N/A      | 3.5/FV                    | 250               | ATM                          | 100- '200            | MPC-2 | 1/2"NPTM       | SS 316                          | *            | *         | -              | A    | -      |  |
| 2116                                                                                                                                                                                                                                                                       | 41-PT-3760A  | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0213-04 | 2"-HM-41-3777-BC01-3N                                                                             | PSD    | AI       | 12                        | 250               | 5                            | 100- '200            | MPC-2 | 1/2" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 2117                                                                                                                                                                                                                                                                       | 41-PI-3759A  | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0213-04 | 2"-HM-41-3777-BC01-3N                                                                             | N/A    | N/A      | 12                        | 250               | 5                            | 100- '200            | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 2118                                                                                                                                                                                                                                                                       | 41-PT-3760B  | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0213-04 | 2"-HM-41-3778-BC01-3N                                                                             | PSD    | AI       | 12                        | 250               | 5                            | 100- '200            | MPC-2 | 1/2" NPT       | SS 316                          | *            | *         | -              | A    | -      |  |
| 2119                                                                                                                                                                                                                                                                       | 41-PI-3759B  | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0213-04 | 2"-HM-41-3778-BC01-3N                                                                             | N/A    | N/A      | 12                        | 250               | 5                            | 100- '200            | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -      |  |
| 2120                                                                                                                                                                                                                                                                       | 41-XC-3340A  | START / STOP                                          | 17039-ND-P-DW-0213-04 | ND-PM-3340A                                                                                       | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -      |  |
| 2121                                                                                                                                                                                                                                                                       | 41-XI-3340A  | RUNNING                                               | 17039-ND-P-DW-0213-04 | ND-PM-3340A                                                                                       | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         |                |      |        |  |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|------------------|----------------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                         |               |                                                       |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                  |                                        |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                         |               |                                                       |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                  |                                        |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                    | Tag No        | INSTRUMENT DESCRIPTION                                | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING    | BODY MATERIAL                          | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 2136                                                                                                                                                                                                                    | 41-PDI-3776   | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0213-05 | ACROSS ND-MAJ-3390A                                                                               | DCS    | AI       | 12/FV                     | 250               | 5                            | 250                  | MPC-2 | 2"/300#RF        | SS316                                  | *            | *         | -              | A    | -      |
| 2137                                                                                                                                                                                                                    | 41-PDI-3777   | DIFFERENTIAL PRESSURE TRANSMITTER WITH DIAPHRAGM SEAL | 17039-ND-P-DW-0213-05 | ACROSS ND-MAJ-3390B                                                                               | DCS    | AI       | 12/FV                     | 250               | 5                            | 250                  | MPC-2 | 2"/300#RF        | SS316                                  | *            | *         | -              | A    | -      |
| 2138                                                                                                                                                                                                                    | 41-PSV-3778A  | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0213-05 | 2"-HM-41-3801-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 5                            | 250                  | MPC-2 | 1" D 2" / 300#RF | SS316                                  | *            | *         | -              | A    | -      |
| 2139                                                                                                                                                                                                                    | 41-PSV-3778B  | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0213-05 | 2"-HM-41-3801-BC01-3N                                                                             | N/A    | N/A      | 12/FV                     | 250               | 5                            | 250                  | MPC-2 | 1" D 2" / 300#RF | SS316                                  | *            | *         | -              | A    | -      |
| 2140                                                                                                                                                                                                                    | 64-PV-6641    | PRESSURE REGULATOR                                    | 17039-ND-P-DW-0214-01 | 2"-GN-64-6653-AG01                                                                                | N/A    | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1"/150# RF       | BODY:CARBONSTEEL (galvanized) / TRIM : | *            | *         | -              | A    | -      |
| 2141                                                                                                                                                                                                                    | 45-PV-5024    | PRESSURE REGULATOR                                    | 17039-ND-P-DW-0214-01 | 2"-FG-45-5012-AC01                                                                                | N/A    | N/A      | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 1"/150# RF       | BODY:CARBONSTEEL / TRIM : SS316        | *            | *         | -              | A    | -      |
| 2142                                                                                                                                                                                                                    | 45-FIT-5007   | DP TYPE FLOW TRANSMITTER                              | 17039-ND-P-DW-0214-01 | N/A                                                                                               | DCS    | AI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/2"NPTF         | SS316L                                 | *            | *         | -              | A    | -      |
| 2143                                                                                                                                                                                                                    | 45-FE-5007    | FLOW ELEMENT (ORIFICE PLATE)                          | 17039-ND-P-DW-0214-01 | 2"-FG-45-5012-AC01                                                                                | N/A    | N/A      | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 2"/150# RF       | SS316L                                 | *            | *         | -              | A    | -      |
| 2144                                                                                                                                                                                                                    | 45-SDV-5031   | SHUTDOWN VALVE                                        | 17039-ND-P-DW-0214-01 | 2"-FG-45-5012-AC01                                                                                | N/A    | N/A      | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 2" / 150# RF     | BODY:CARBONSTEEL / TRIM : SS316        | *            | *         | -              | A    | -      |
| 2145                                                                                                                                                                                                                    | 45-SXV-5031   | SOLENOID VALVE                                        | 17039-ND-P-DW-0214-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT         | SS 316                                 | *            | *         | -              | A    | -      |
| 2146                                                                                                                                                                                                                    | 45-ZSL-5031   | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0214-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | SS 316                                 | *            | *         | -              | A    | -      |
| 2147                                                                                                                                                                                                                    | 45-ZSH-5031   | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0214-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | SS 316                                 | *            | *         | -              | A    | -      |
| 2148                                                                                                                                                                                                                    | 64-SDV-6652   | SHUTDOWN VALVE                                        | 17039-ND-P-DW-0214-01 | 2"-GN-64-6652-AG01                                                                                | N/A    | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2" / 150# RF     | BODY:CARBONSTEEL (galvanized) / TRIM : | *            | *         | -              | A    | -      |
| 2149                                                                                                                                                                                                                    | 64-SXV-6652   | SOLENOID VALVE                                        | 17039-ND-P-DW-0214-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | 1/4" NPT         | SS 316                                 | *            | *         | -              | A    | -      |
| 2150                                                                                                                                                                                                                    | 64-ZSL-6652   | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0214-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | N/A              | SS 316                                 | *            | *         | -              | A    | -      |
| 2151                                                                                                                                                                                                                    | 64-ZSH-6652   | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0214-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | N/A              | SS 316                                 | *            | *         | -              | A    | -      |
| 2152                                                                                                                                                                                                                    | 43-LT-4165    | DP TYPE LEVEL TRANSMITTER                             | 17039-ND-P-DW-0214-02 | ND-MBD-2190                                                                                       | ESD    | AI       | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 1/2" NPTF        | SS316                                  | *            | *         | -              | A    | -      |
| 2153                                                                                                                                                                                                                    | 43-TW-4166    | THERMOWELL                                            | 17039-ND-P-DW-0214-02 | ND-MBD-2190                                                                                       | N/A    | N/A      | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 2"/150#RF        | SS316                                  | *            | *         | -              | A    | -      |
| 2154                                                                                                                                                                                                                    | 43-TI-4166    | TEMPERATURE INDICATOR                                 | 17039-ND-P-DW-0214-02 | ND-MBD-2190                                                                                       | N/A    | N/A      | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 1/2"NPTM         | SS316                                  | *            | *         | -              | A    | -      |
| 2155                                                                                                                                                                                                                    | 43-LG/LT-4167 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER        | 17039-ND-P-DW-0214-02 | ND-MBD-2190                                                                                       | ESD    | AI       | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 2"/150#RF        | SS316                                  | *            | *         | -              | A    | -      |
| 2156                                                                                                                                                                                                                    | 43-LT-4168    | DP TYPE LEVEL TRANSMITTER                             | 17039-ND-P-DW-0214-02 | ND-MBD-2190                                                                                       | ESD    | AI       | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 2"/150#RF        | SS316                                  | *            | *         | -              | A    | -      |
| 2157                                                                                                                                                                                                                    | 43-PI-4169    | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0214-02 | ND-MBD-2190                                                                                       | N/A    | N/A      | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 1/2" NPTM        | SS316                                  | *            | *         | -              | A    | -      |
| 2158                                                                                                                                                                                                                    | 43-SDV-4218   | SHUTDOWN VALVE                                        | 17039-ND-P-DW-0214-02 | 2"-PL-43-4185-AC01                                                                                | N/A    | N/A      | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 2"/150#RF        | BODY:CARBONSTEEL / TRIM : SS316        | *            | *         | -              | A    | -      |
| 2159                                                                                                                                                                                                                    | 43-SXV-4218   | SOLENOID VALVE                                        | 17039-ND-P-DW-0214-02 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT         | SS 316                                 | *            | *         | -              | A    | -      |
| 2160                                                                                                                                                                                                                    | 43-ZSL-4218   | LIMIT SWITCH LOW                                      | 17039-ND-P-DW-0214-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | SS 316                                 | *            | *         | -              | A    | -      |
| 2161                                                                                                                                                                                                                    | 43-ZSH-4218   | LIMIT SWITCH HIGH                                     | 17039-ND-P-DW-0214-02 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | SS 316                                 | *            | *         | -              | A    | -      |
| 2162                                                                                                                                                                                                                    | 43-LG/LT-4170 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER        | 17039-ND-P-DW-0214-02 | ND-MBD-2140                                                                                       | DCS    | AI       | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 2"/150#RF        | SS316                                  | *            | *         | -              | A    | -      |
| 2163                                                                                                                                                                                                                    | 43-PI-4171A   | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0214-02 | 2"-PL-43-4188-AC01                                                                                | N/A    | N/A      | 10/FV                     | 100               | 5.0                          | AMB                  | MPC-2 | 1/2" NPTM        | SS316                                  | *            | *         | -              | A    | -      |
| 2164                                                                                                                                                                                                                    | 43-PI-4171B   | PRESSURE INDICATOR                                    | 17039-ND-P-DW-0214-02 | 2"-PL-43-4189-AC01                                                                                | N/A    | N/A      | 10/FV                     | 100               | 5.0                          | AMB                  | MPC-2 | 1/2" NPTM        | SS316                                  | *            | *         | -              | A    | -      |
| 2165                                                                                                                                                                                                                    | 43-PT-4172A   | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0214-02 | 2"-PL-43-4188-AC01                                                                                | PSD    | AI       | 10/FV                     | 100               | 5.0                          | AMB                  | MPC-2 | 1/2" NPTF        | SS316                                  | *            | *         | -              | A    | -      |
| 2166                                                                                                                                                                                                                    | 43-PT-4172B   | PRESSURE TRANSMITTER                                  | 17039-ND-P-DW-0214-02 | 2"-PL-43-4189-AC01                                                                                | PSD    | AI       | 10/FV                     | 100               | 5.0                          | AMB                  | MPC-2 | 1/2" NPTF        | SS316                                  | *            | *         | -              | A    | -      |
| 2167                                                                                                                                                                                                                    | 43-PSV-4175A  | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0214-02 | 2"-PL-43-4192-AC01                                                                                | N/A    | N/A      | 10/FV                     | 100               | 5.0                          | AMB                  | MPC-2 | 1" E 2" /150#RF  | SS316                                  | *            | *         | -              | A    | -      |
| 2168                                                                                                                                                                                                                    | 43-PSV-4175B  | PRESSURE SAFETY VALVE                                 | 17039-ND-P-DW-0214-02 | 2"-PL-43-4191-AC01                                                                                | N/A    | N/A      | 10/FV                     | 100               | 5.0                          | AMB                  | MPC-2 | 1" E 2" /150#RF  | SS316                                  | *            | *         | -              | A    | -      |
| 2169                                                                                                                                                                                                                    | 43-XC-2180A   | START / STOP                                          | 17039-ND-P-DW-0214-02 | ND-PBA-2150A                                                                                      | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2170                                                                                                                                                                                                                    | 43-XI-2180A   | RUNNING                                               | 17039-ND-P-DW-0214-02 | ND-PBA-2150A                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2171                                                                                                                                                                                                                    | 43-XA-2180A   | FAULT ALARM                                           | 17039-ND-P-DW-0214-02 | ND-PBA-2150A                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2172                                                                                                                                                                                                                    | 43-XE-2180A   | AVAILABLE                                             | 17039-ND-P-DW-0214-02 | ND-PBA-2150A                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2173                                                                                                                                                                                                                    | 43-XB-2180A   | FEEDBACK                                              | 17039-ND-P-DW-0214-02 | ND-PBA-2150A                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2174                                                                                                                                                                                                                    | 43-XS-2180A   | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0214-02 | ND-PBA-2150A                                                                                      | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2175                                                                                                                                                                                                                    | 43-XXS-2180A  | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0214-02 | ND-PBA-2150A                                                                                      | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2176                                                                                                                                                                                                                    | 43-XC-2180B   | START / STOP                                          | 17039-ND-P-DW-0214-02 | ND-PBA-2150B                                                                                      | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2177                                                                                                                                                                                                                    | 43-XI-2180B   | RUNNING                                               | 17039-ND-P-DW-0214-02 | ND-PBA-2150B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2178                                                                                                                                                                                                                    | 43-XB-2180B   | FAULT ALARM                                           | 17039-ND-P-DW-0214-02 | ND-PBA-2150B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2179                                                                                                                                                                                                                    | 43-XE-2180B   | AVAILABLE                                             | 17039-ND-P-DW-0214-02 | ND-PBA-2150B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2180                                                                                                                                                                                                                    | 43-XB-2180B   | FEEDBACK                                              | 17039-ND-P-DW-0214-02 | ND-PBA-2150B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2181                                                                                                                                                                                                                    | 43-XS-2180B   | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0214-02 | ND-PBA-2150B                                                                                      | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A              | N/A                                    | *            | *         | -              | A    | -      |
| 2182                                                                                                                                                                                                                    | 43-XXS-2180B  | SHUTDOWN TRIP                                         | 17039-ND-P-DW-0214-02 | ND-PBA-2150B                                                                                      | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A</                |       |                  |                                        |              |           |                |      |        |

| <div><div></div><div></div></div> |               |                                   |                       | CLIENT : OIL INDIA LIMITED                                                                        |                         |          |                           |                   |                              |                      |       |                           |                                  |              | DOC NO. : |                |      |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|-------------------------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|---------------------------|----------------------------------|--------------|-----------|----------------|------|----------------|
|                                                                                                                                                                                                  |               |                                   |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |                         |          |                           |                   |                              |                      |       |                           |                                  |              | REV NO. : |                |      |                |
|                                                                                                                                                                                                  |               |                                   |                       |                                                                                                   |                         |          |                           |                   |                              |                      |       |                           |                                  |              | DATE :    |                |      |                |
| S.No                                                                                                                                                                                             | Tag No        | INSTRUMENT DESCRIPTION            | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM                  | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING             | BODY MATERIAL                    | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK         |
| 2197                                                                                                                                                                                             | 63-ZSH-6433   | LIMIT SWITCH HIGH                 | 17039-ND-P-DW-0214-04 | N/A                                                                                               | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2198                                                                                                                                                                                             | 45-SDV-5529   | SHUTDOWN VALVE                    | 17039-ND-P-DW-0214-04 | 2"-FG-45-5020-AC01                                                                                | N/A                     | N/A      | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 2"/150#RF                 | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | PACKAGE VENDOR |
| 2199                                                                                                                                                                                             | 45-SXV-5529   | SOLENOID VALVE                    | 17039-ND-P-DW-0214-04 | N/A                                                                                               | PSD                     | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                  | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2200                                                                                                                                                                                             | 45-ZSL-5529   | LIMIT SWITCH LOW                  | 17039-ND-P-DW-0214-04 | N/A                                                                                               | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2201                                                                                                                                                                                             | 45-ZSH-5529   | LIMIT SWITCH HIGH                 | 17039-ND-P-DW-0214-04 | N/A                                                                                               | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2202                                                                                                                                                                                             | 45-SDV-4289   | SHUTDOWN VALVE                    | 17039-ND-P-DW-0214-04 | 2"-FG-45-5679-AC01                                                                                | N/A                     | N/A      | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 2"/150#RF                 | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | PACKAGE VENDOR |
| 2203                                                                                                                                                                                             | 45-SXV-4289   | SOLENOID VALVE                    | 17039-ND-P-DW-0214-04 | N/A                                                                                               | PSD                     | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | 1/4" NPT                  | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2204                                                                                                                                                                                             | 45-ZIL-4289   | LIMIT SWITCH LOW                  | 17039-ND-P-DW-0214-04 | N/A                                                                                               | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2205                                                                                                                                                                                             | 45-ZIH-4289   | LIMIT SWITCH HIGH                 | 17039-ND-P-DW-0214-04 | N/A                                                                                               | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2206                                                                                                                                                                                             | 63-PV-6431    | PRESSURE CONTROL VALVE            | 17039-ND-P-DW-0214-04 | 2"-IA-63-6429-AG01                                                                                | N/A                     | N/A      | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 1/2"/150#RF               | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | PACKAGE VENDOR |
| 2207                                                                                                                                                                                             | 45-PV-5526    | PRESSURE CONTROL VALVE            | 17039-ND-P-DW-0214-04 | 2"-FG-45-5632-AC01                                                                                | N/A                     | N/A      | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 1/2"/150#RF               | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | PACKAGE VENDOR |
| 2208                                                                                                                                                                                             | 45-PV-5527    | PRESSURE CONTROL VALVE            | 17039-ND-P-DW-0214-04 | 2"-FG-45-5679-AC01                                                                                | N/A                     | N/A      | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 1/2"/150#RF               | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | PACKAGE VENDOR |
| 2209                                                                                                                                                                                             | 63-PI-6432    | PRESSURE INDICATOR                | 17039-ND-P-DW-0214-04 | 1"-IA-63-6430-AG01                                                                                | N/A                     | N/A      | 10/FV                     | 200               | 3.5                          | AMB                  | MPC-2 | 1/2" NPTM                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2210                                                                                                                                                                                             | 45-PI-5528    | PRESSURE INDICATOR                | 17039-ND-P-DW-0214-04 | 1"-FG-45-5507-AC01                                                                                | N/A                     | N/A      | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 1/2" NPTM                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2211                                                                                                                                                                                             | 45-PI-5530    | PRESSURE INDICATOR                | 17039-ND-P-DW-0214-04 | 1"-FG-45-5507-AC01                                                                                | N/A                     | N/A      | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 1/2" NPTM                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2212                                                                                                                                                                                             | 43-TT-4137    | TEMPERATURE TRANSMITTER           | 17039-ND-P-DW-0214-04 | 1"-FG-45-5510-AC01                                                                                | IGNITION CONTROL SYSTEM | AI       | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 2" 900#                   | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2213                                                                                                                                                                                             | 43-TT-4138    | TEMPERATURE TRANSMITTER           | 17039-ND-P-DW-0214-04 | 1"-FG-45-5511-AC01                                                                                | IGNITION CONTROL SYSTEM | AI       | 11/FV                     | 100               | 6                            | 64-66                | MPC-2 | 2" 900#                   | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2214                                                                                                                                                                                             | 43-XAL-4276   | IGNITION FAILURE                  | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2215                                                                                                                                                                                             | 43-XAL-4279   | FUEL GAS PRESSURE LOW             | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2216                                                                                                                                                                                             | 43-XAL-4280   | COMMON ALARM FAILURE              | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2217                                                                                                                                                                                             | 43-XAL-4281   | BACK-UP FUEL GAS LOW              | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2218                                                                                                                                                                                             | 43-HS-4269    | POWER ON/OFF SWITCH               | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2219                                                                                                                                                                                             | 43-PB-4270    | IGNITION PUSH BUTTON              | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2220                                                                                                                                                                                             | 43-PB-4271    | AUTO/OFF/MAN SELECTOR             | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2221                                                                                                                                                                                             | 43-HS-4272    | PILOT SELECTOR                    | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2222                                                                                                                                                                                             | 43-PB-4273    | LAMP TEST PUSH BUTTON             | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2223                                                                                                                                                                                             | 43-PB-4274    | RESET PUSH BUTTON                 | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2224                                                                                                                                                                                             | 43-XL-4275    | POWER ON WHITE LAMP               | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2225                                                                                                                                                                                             | 43-XL-4276    | IGNITION FAILURE                  | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2226                                                                                                                                                                                             | 43-TAH-4277   | TEMPERATURE SWITCH HIGH           | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2227                                                                                                                                                                                             | 43-TAH-4278   | TEMPERATURE SWITCH LOW            | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2228                                                                                                                                                                                             | 43-XAL-4279   | FUEL GAS PRESSURE LOW             | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2229                                                                                                                                                                                             | 43-XAL-4280   | COMMON ALARM FAILURE              | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2230                                                                                                                                                                                             | 43-XAL-4281   | BACK-UP FUEL GAS LOW              | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | IGNITION CONTROL SYSTEM | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2231                                                                                                                                                                                             | 43-XAL-4277   | PILOT "1" FAILURE                 | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2232                                                                                                                                                                                             | 43-XAL-4278   | PILOT "2" FAILURE                 | 17039-ND-P-DW-0214-04 | LOCAL ELECTRICAL PANEL FOR IGNITION CONTROL                                                       | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2233                                                                                                                                                                                             | 63-PI-6501A   | PRESSURE INDICATOR                | 17039-ND-P-DW-0215-01 | 2"-UA-63-7700-AG01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 6-9                          | 51                   | MPC-4 | 1/2" NPTM                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2234                                                                                                                                                                                             | 63-PDIT-6502A | DIFFERENTIAL PRESSURE TRANSMITTER | 17039-ND-P-DW-0215-01 | ACROSS - ND-MAJ-2240A                                                                             | DCS                     | AI       | 13.5                      | 85                | 6-9                          | 51                   | MPC-4 | 1/2" NPT                  | SS316                            | *            | *         | -              | A    | -              |
| 2235                                                                                                                                                                                             | 63-PSV-8102A  | PRESSURE SAFETY VALVE             | 17039-ND-P-DW-0215-01 | 2"-UA-63-7707-AC01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 6-9                          | 51                   | MPC-4 | 1" E 2"/150#RF            | BODY:Carbon steel / TRIM : SS316 | *            | *         | -              | A    | PACKAGE VENDOR |
| 2236                                                                                                                                                                                             | 63-PI-6501B   | PRESSURE INDICATOR                | 17039-ND-P-DW-0215-01 | 2"-UA-63-7701-AG01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 6-9                          | 51                   | MPC-4 | 1/2" NPTM                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2237                                                                                                                                                                                             | 63-PDIT-6502B | DIFFERENTIAL PRESSURE TRANSMITTER | 17039-ND-P-DW-0215-01 | ACROSS - ND-MAJ-2240A                                                                             | DCS                     | AI       | 13.5                      | 85                | 6-9                          | 51                   | MPC-4 | 1/2" NPT                  | SS316                            | *            | *         | -              | A    | -              |
| 2238                                                                                                                                                                                             | 63-PSV-8102B  | PRESSURE SAFETY VALVE             | 17039-ND-P-DW-0215-01 | 2"-UA-63-7704-AC01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 6-9                          | 51                   | MPC-4 | 1" E 2"/150#RF            | BODY:Carbon steel / TRIM : SS316 | *            | *         | -              | A    | PACKAGE VENDOR |
| 2239                                                                                                                                                                                             | 63-PI-6511    | PRESSURE INDICATOR                | 17039-ND-P-DW-0215-02 | 2"-UA-63-7703-AG01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 6-9                          | 51                   | MPC-4 | 1/2" NPTM                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2240                                                                                                                                                                                             | 64-FI-6505    | ROTAMETER                         | 17039-ND-P-DW-0215-02 | 2"-GN-64-7717-AG01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPT                  | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2241                                                                                                                                                                                             | 64-XV-8076    | ON/OFF VALVE                      | 17039-ND-P-DW-0215-02 | 2"-GN-64-7717-AG01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/ 150# RF               | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | PACKAGE VENDOR |
| 2242                                                                                                                                                                                             | 64-SXV-8076   | SOLENOID VALVE                    | 17039-ND-P-DW-0215-02 | N/A                                                                                               | ND-LCP-2250             | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | 1/4" NPT                  | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2243                                                                                                                                                                                             | 64-ZSL-8076   | LIMIT SWITCH LOW                  | 17039-ND-P-DW-0215-02 | N/A                                                                                               | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | N/A                       | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2244                                                                                                                                                                                             | 64-ZSH-8076   | LIMIT SWITCH HIGH                 | 17039-ND-P-DW-0215-02 | N/A                                                                                               | DCS                     | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | N/A                       | SS 316                           | *            | *         | -              | A    | PACKAGE VENDOR |
| 2245                                                                                                                                                                                             | 64-AIT-6507   | ANALYSER TRANSMITTER              | 17039-ND-P-DW-0215-02 | 2"-GN-64-7717-AG01                                                                                | ND-LCP-2250             | AI       | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPT                  | SS316                            | *            | *         | -              | A    | -              |
| 2246                                                                                                                                                                                             | 64-SXY-2250   | SHUTDOWN SIGNAL                   | 17039-ND-P-DW-0215-02 | N/A                                                                                               | ND-LCP-2250             | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | N/A                       | N/A                              | *            | *         | -              | A    | PACKAGE VENDOR |
| 2247                                                                                                                                                                                             | 64-XA-2250    | FAILURE                           | 17039-ND-P-DW-0215-02 | N/A                                                                                               | ND-LCP-2250             | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | N/A                       | N/A                              | *            | *         | -              | A    | -              |
| 2248                                                                                                                                                                                             | 64-XI-2250    | RUNNING                           | 17039-ND-P-DW-0215-02 | N/A                                                                                               | ND-LCP-2250             | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | N/A                       | N/A                              | *            | *         | -              | A    | PACKAGE VENDOR |
| 2249                                                                                                                                                                                             | 64-AI-2250    | ANALYSER INDICATION               | 17039-ND-P-DW-0215-02 | N/A                                                                                               | ND-LCP-2250             | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-4 | N/A                       | N/A                              | *            | *         | -              | A    | PACKAGE VENDOR |
| 2250                                                                                                                                                                                             | 64-TI-6508    | TEMPERATURE INDICATOR             | 17039-ND-P-DW-0215-03 | ND-MBD-2260                                                                                       | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2"NPTM                  | SS316                            | *            | *         | -              | A    | -              |
| 2251                                                                                                                                                                                             | 64-TW-6508    | THERMOWELL                        | 17039-ND-P-DW-0215-03 | ND-MBD-2260                                                                                       | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/150#RF                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2252                                                                                                                                                                                             | 64-PI-6509    | PRESSURE INDICATOR                | 17039-ND-P-DW-0215-03 | ND-MBD-2260                                                                                       | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPTM                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2253                                                                                                                                                                                             | 64-LG-6510    | MAGNETIC TYPE LEVEL INDICATOR     | 17039-ND-P-DW-0215-03 | ND-MBD-2260                                                                                       | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 2"/150#RF                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2254                                                                                                                                                                                             | 64-PIT-6513   | PRESSURE TRANSMITTER              | 17039-ND-P-DW-0215-03 | 2"-GN-64-6625-AG01                                                                                | DCS                     | AI       | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1/2" NPTM                 | SS316                            | *            | *         | -              | A    | PACKAGE VENDOR |
| 2255                                                                                                                                                                                             | 64-PSV-8122A  | PRESSURE SAFETY VALVE             | 17039-ND-P-DW-0215-03 | 2"-GN-64-7724-AC01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1 1/2"/300#RF F 2"/150#RF | BODY:Carbon steel / TRIM : SS316 | *            | *         | -              | A    | PACKAGE VENDOR |
| 2256                                                                                                                                                                                             | 64-PSV-8122B  | PRESSURE SAFETY VALVE             | 17039-ND-P-DW-0215-03 | 2"-GN-64-7723-AC01                                                                                | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1 1/2"/300#RF F 2"/150#RF | BODY:Carbon steel / TRIM : SS316 | *            | *         | -              | A    | PACKAGE VENDOR |
| 2257                                                                                                                                                                                             | 64-PCV-6635A  | PRESSURE REGULATOR                | 17039-ND-P-DW-0215-03 | 2"-GN-64-6625-AG70                                                                                | N/A                     | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1"/ 150# RF               | BODY:CARBONSTEEL / TRIM : SS316  | *            | *         | -              | A    | PACKAGE VENDOR |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|-------|----------------|---------------------------------|--------------|-----------|----------------|------|----------------|--|
|                                                                                                                                                                                                                         |              |                                     |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |       |                |                                 |              |           | REV NO. :      |      |                |  |
|                                                                                                                                                                                                                         |              |                                     |                       |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                 |              |           | DATE :         |      |                |  |
| S.No                                                                                                                                                                                                                    | Tag No       | INSTRUMENT DESCRIPTION              | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC   | SIZE / RATING  | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK         |  |
| 2258                                                                                                                                                                                                                    | 64-PCV-6635B | PRESSURE REGULATOR                  | 17039-ND-P-DW-0215-03 | 2"-GN-64-6625-AG70                                                                                | N/A    | N/A      | 13.5                      | 85                | 5.5-8.5                      | 51                   | MPC-4 | 1"/150# RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | PACKAGE VENDOR |  |
| 2259                                                                                                                                                                                                                    | 57-PG-6026A  | PRESSURE INDICATOR                  | 17039-ND-P-DW-0216-02 | 2"-DC-57-6210-AC01                                                                                | N/A    | N/A      | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -              |  |
| 2260                                                                                                                                                                                                                    | 57-PIT-6027A | PRESSURE TRANSMITTER                | 17039-ND-P-DW-0216-02 | 2"-DC-57-6210-AC01                                                                                | PSD    | AI       | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 1/2" NPTF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2261                                                                                                                                                                                                                    | 57-PI-6026B  | PRESSURE INDICATOR                  | 17039-ND-P-DW-0216-02 | 2"-DC-57-6210-AC01                                                                                | N/A    | N/A      | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -              |  |
| 2262                                                                                                                                                                                                                    | 57-PIT-6027B | PRESSURE TRANSMITTER                | 17039-ND-P-DW-0216-02 | 2"-DC-57-6210-AC01                                                                                | PSD    | AI       | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 1/2" NPTF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2263                                                                                                                                                                                                                    | 57-PIT-6201  | PRESSURE TRANSMITTER                | 17039-ND-P-DW-0216-02 | ND-MBD-3500                                                                                       | PSD    | AI       | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -              |  |
| 2264                                                                                                                                                                                                                    | 57-PG-6202   | PRESSURE INDICATOR                  | 17039-ND-P-DW-0216-02 | ND-MBD-3500                                                                                       | N/A    | N/A      | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 1/2" NPTM      | SS316                           | *            | *         | -              | A    | -              |  |
| 2265                                                                                                                                                                                                                    | 57-PSV-6201A | PRESSURE SAFETY VALVE               | 17039-ND-P-DW-0216-02 | 2"-57-DC-6212A-AC01                                                                               | N/A    | N/A      | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 1" D 2"/150#RF | SS316                           | *            | *         | -              | A    | -              |  |
| 2266                                                                                                                                                                                                                    | 57-PSV-6201B | PRESSURE SAFETY VALVE               | 17039-ND-P-DW-0216-02 | 2"-57-DC-6213B-AC01                                                                               | N/A    | N/A      | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 1" D 2"/150#RF | SS316                           | *            | *         | -              | A    | -              |  |
| 2267                                                                                                                                                                                                                    | 57-LIT-6203  | RADAR TYPE LEVEL TRANSMITTER        | 17039-ND-P-DW-0216-02 | ND-MBD-3500                                                                                       | PSD    | AI       | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 3"/150#RF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2268                                                                                                                                                                                                                    | 57-LIT-6204  | RADAR TYPE LEVEL TRANSMITTER        | 17039-ND-P-DW-0216-02 | ND-MBD-3500                                                                                       | PSD    | AI       | 10/FV                     | 120               | 0.7                          | AMB                  | MPC-2 | 3"/150#RF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2269                                                                                                                                                                                                                    | 57-XC-3510A  | START / STOP                        | 17039-ND-P-DW-0216-02 | ND-PBA-3510A                                                                                      | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2270                                                                                                                                                                                                                    | 57-XI-3510A  | RUNNING                             | 17039-ND-P-DW-0216-02 | ND-PBA-3510A                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2271                                                                                                                                                                                                                    | 57-XA-3510A  | FAULT ALARM                         | 17039-ND-P-DW-0216-02 | ND-PBA-3510A                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2272                                                                                                                                                                                                                    | 57-XE-3510A  | AVAILABLE                           | 17039-ND-P-DW-0216-02 | ND-PBA-3510A                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2273                                                                                                                                                                                                                    | 57-XB-3510A  | TRIP FEEDBACK                       | 17039-ND-P-DW-0216-02 | ND-PBA-3510A                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2274                                                                                                                                                                                                                    | 57-XS-3510A  | SHUTDOWN TRIP                       | 17039-ND-P-DW-0216-02 | ND-PBA-3510A                                                                                      | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2275                                                                                                                                                                                                                    | 57-XXS-3510A | SHUTDOWN TRIP                       | 17039-ND-P-DW-0216-02 | ND-PBA-3510A                                                                                      | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2276                                                                                                                                                                                                                    | 57-XC-3510B  | START / STOP                        | 17039-ND-P-DW-0216-02 | ND-PBA-3510B                                                                                      | DCS    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2277                                                                                                                                                                                                                    | 57-XI-3510B  | RUNNING                             | 17039-ND-P-DW-0216-02 | ND-PBA-3510B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2278                                                                                                                                                                                                                    | 57-XA-3510B  | FAULT ALARM                         | 17039-ND-P-DW-0216-02 | ND-PBA-3510B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2279                                                                                                                                                                                                                    | 57-XE-3510B  | AVAILABLE                           | 17039-ND-P-DW-0216-02 | ND-PBA-3510B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2280                                                                                                                                                                                                                    | 57-XB-3510B  | TRIP FEEDBACK                       | 17039-ND-P-DW-0216-02 | ND-PBA-3510B                                                                                      | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2281                                                                                                                                                                                                                    | 57-XS-3510B  | SHUTDOWN TRIP                       | 17039-ND-P-DW-0216-02 | ND-PBA-3510B                                                                                      | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2282                                                                                                                                                                                                                    | 57-XXS-3510B | SHUTDOWN TRIP                       | 17039-ND-P-DW-0216-02 | ND-PBA-3510B                                                                                      | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-2 | N/A            | N/A                             | *            | *         | -              | A    | -              |  |
| 2283                                                                                                                                                                                                                    | 71-SDV-7101  | SHUTDOWN VALVE                      | 17039-ND-P-DW-0217-01 | 4"-WP-71-7101-AC01                                                                                | N/A    | N/A      | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 4" /150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -              |  |
| 2284                                                                                                                                                                                                                    | 71-SXV-7101  | SOLENOID VALVE                      | 17039-ND-P-DW-0217-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -              |  |
| 2285                                                                                                                                                                                                                    | 71-ZIL-7101  | LIMIT SWITCH LOW                    | 17039-ND-P-DW-0217-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | N/A            |                                 | *            | *         | -              | A    | -              |  |
| 2286                                                                                                                                                                                                                    | 71-ZIH-7101  | LIMIT SWITCH HIGH                   | 17039-ND-P-DW-0217-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | N/A            |                                 | *            | *         | -              | A    | -              |  |
| 2287                                                                                                                                                                                                                    | 71-LI-8005   | FLOAT AND TAPE TYPE LEVEL INDICATOR | 17039-ND-P-DW-0217-01 | ND-ABJ-3110A                                                                                      | N/A    | N/A      | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 2"/150#RF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2288                                                                                                                                                                                                                    | 71-LIT-8006  | RADAR TYPE LEVEL TRANSMITTER        | 17039-ND-P-DW-0217-01 | ND-ABJ-3110A                                                                                      | DCS    | AI       | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 2"/150#RF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2289                                                                                                                                                                                                                    | 71-LI-8004   | FLOAT AND TAPE TYPE LEVEL INDICATOR | 17039-ND-P-DW-0217-01 | ND-ABJ-3110B                                                                                      | N/A    | N/A      | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 2"/150#RF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2290                                                                                                                                                                                                                    | 71-LIT-8007  | RADAR TYPE LEVEL TRANSMITTER        | 17039-ND-P-DW-0217-01 | ND-ABJ-3110B                                                                                      | DCS    | AI       | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 2"/150#RF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2291                                                                                                                                                                                                                    | 71-FI-7265   | FLOW INDICATOR                      | 17039-ND-P-DW-0217-01 | 6"-WF-71-7108-AG01                                                                                | N/A    | N/A      | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 6"/150#RF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2292                                                                                                                                                                                                                    | 71-FE-7265   | FLOW ELEMENT (ORIFICE)              | 17039-ND-P-DW-0217-01 | 6"-WF-71-7108-AG01                                                                                | N/A    | N/A      | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 6"/150#RF      | SS316                           | *            | *         | -              | A    | -              |  |
| 2293                                                                                                                                                                                                                    | 71-PI-7266   | PRESSURE INDICATOR                  | 17039-ND-P-DW-0217-01 | 6"-WF-71-7108-AG01                                                                                | N/A    | N/A      | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 1/2"NPTM       | SS316                           | *            | *         | -              | A    | -              |  |
| 2294                                                                                                                                                                                                                    | 71-XV-8008   | SHUTDOWN VALVE                      | 17039-ND-P-DW-0217-01 | 2"-WP-53-4639A-AC01                                                                               | N/A    | N/A      | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 2" /150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -              |  |
| 2295                                                                                                                                                                                                                    | 71-SXV-8008  | SOLENOID VALVE                      | 17039-ND-P-DW-0217-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -              |  |
| 2296                                                                                                                                                                                                                    | 71-ZIL-8008  | LIMIT SWITCH LOW                    | 17039-ND-P-DW-0217-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | N/A            | SS316                           | *            | *         | -              | A    | -              |  |
| 2297                                                                                                                                                                                                                    | 71-ZIH-8008  | LIMIT SWITCH HIGH                   | 17039-ND-P-DW-0217-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | N/A            | SS316                           | *            | *         | -              | A    | -              |  |
| 2298                                                                                                                                                                                                                    | 71-XV-8009   | SHUTDOWN VALVE                      | 17039-ND-P-DW-0217-01 | 2"-WP-53-4639B-AC01                                                                               | N/A    | N/A      | FOW                       | 80                | ATM                          | 41                   | MPC-5 | 2" /150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -              |  |
| 2299                                                                                                                                                                                                                    | 71-SXV-8009  | SOLENOID VALVE                      | 17039-ND-P-DW-0217-01 | N/A                                                                                               | PSD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | 1/4" NPT       | SS316                           | *            | *         | -              | A    | -              |  |
| 2300                                                                                                                                                                                                                    | 71-ZIL-8009  | LIMIT SWITCH LOW                    | 17039-ND-P-DW-0217-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | N/A            | SS316                           | *            | *         | -              | A    | -              |  |
| 2301                                                                                                                                                                                                                    | 71-ZIH-8009  | LIMIT SWITCH HIGH                   | 17039-ND-P-DW-0217-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5 | N/A            | SS316                           | *            | *         | -              | A    | -              |  |
| 2302                                                                                                                                                                                                                    | 71-PT-7102A  | PRESSURE TRANSMITTER                | 17039-ND-P-DW-0217-02 | 8"-WF-71-7122-AG01                                                                                | PSD    | AI       | 15                        | 80                | 10                           | 41                   | MPC-5 | 1/2" NPT       | SS316                           | *            | *         | -              | A    | -              |  |
| 2303                                                                                                                                                                                                                    | 71-PT-7103A  | PRESSURE TRANSMITTER                | 17039-ND-P-DW-0217-02 | 8"-WF-71-7122-AG01                                                                                | PSD    | AI       | 15                        | 80                | 10                           | 41                   | MPC-5 | 1/2" NPT       | SS316                           | *            | *         | -              | A    | -              |  |
| 2304                                                                                                                                                                                                                    | 71-PT-7104A  | PRESSURE TRANSMITTER                | 17039-ND-P-DW-0217-02 | 8"-WF-71-7122-AG01                                                                                | PSD    | AI       | 15                        | 80                | 10                           | 41                   | MPC-5 | 1/2" NPT       | SS316                           | *            | *         | -              | A    | -              |  |
| 2305                                                                                                                                                                                                                    | 71-PSV-7106  | PRESSURE SAFETY VALVE               | 17039-ND-P-DW-0217-02 | 8"-WF-71-7106-AG01                                                                                | N/A    | N/A      | 15                        | 80                | 10                           | 41                   | MPC-5 | 4" P 6"/150#RF | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -              |  |
| 2306                                                                                                                                                                                                                    | 71-TSV-7106  | TEMPERATURE SAFETY VALVE            | 17039-ND-P-DW-        |                                                                                                   |        |          |                           |                   |                              |                      |       |                |                                 |              |           |                |      |                |  |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------|-----------|----------|---------------------------|-------------------|------------------------------|----------------------|---------|---------------|---------------------------------|--------------|-----------|----------------|------|--------|
|                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                    |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJJAN, ASSAM |           |          |                           |                   |                              |                      |         |               |                                 |              | REV NO. : |                |      |        |
|                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                    |                       |                                                                                                    |           |          |                           |                   |                              |                      |         |               |                                 |              | DATE :    |                |      |        |
| S.No                                                                                                                                                                                                                                                                                                                                                                                                       | Tag No       | INSTRUMENT DESCRIPTION             | P&ID NO.              | LINE / VESSEL NO.                                                                                  | SYSTEM    | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING | BODY MATERIAL                   | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |
| 2319                                                                                                                                                                                                                                                                                                                                                                                                       | 71-LT-8030A  | LEVEL TRANSMITTER                  | 17039-ND-P-DW-0217-02 | DIESEL DAY TANK                                                                                    | USD       | AI       | 15                        | 80                | 10                           | 41                   | MPC-5   | 2" /150#RF    | SS316                           | *            | *         | -              | A    | -      |
| 2320                                                                                                                                                                                                                                                                                                                                                                                                       | 71-FV-7110   | FLOW CONTROL VALVE                 | 17039-ND-P-DW-0217-03 | 2"-WF-71-7107-AG01                                                                                 | N/A       | N/A      | 15                        | 80                | 10.5                         | 41                   | MPC-5   | 1"/150#RF     | BODY:CARBONSTEEL / TRIM : SS316 | *            | *         | -              | A    | -      |
| 2321                                                                                                                                                                                                                                                                                                                                                                                                       | 71-FY-7110   | POSITIONER                         | 17039-ND-P-DW-0217-03 | N/A                                                                                                | DCS       | AO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           |                                 | SS316        | *         | *              | -    | A      |
| 2322                                                                                                                                                                                                                                                                                                                                                                                                       | 71-FT-7110   | MAGNETIC TYPE FLOW TRANSMITTER     | 17039-ND-P-DW-0217-03 | 4"-WF-71-7123-AG01                                                                                 | DCS       | AI       | 15                        | 80                | 10.5                         | 41                   | MPC-5   | 4" /150#RF    | SS316                           | *            | *         | -              | A    | -      |
| 2323                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PI-7108A  | PRESSURE INDICATOR                 | 17039-ND-P-DW-0217-03 | 4"-WF-71-7128-AG01                                                                                 | N/A       | N/A      | 15                        | 80                | 10.5                         | 41                   | MPC-5   | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |
| 2324                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PI-7108B  | PRESSURE INDICATOR                 | 17039-ND-P-DW-0217-03 | 4"-WF-71-7129-AG01                                                                                 | N/A       | N/A      | 15                        | 80                | 10.5                         | 41                   | MPC-5   | 1/2" NPTM     | SS316                           | *            | *         | -              | A    | -      |
| 2325                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PT-7109A  | PRESSURE TRANSMITTER               | 17039-ND-P-DW-0217-03 | 4"-WF-71-7128-AG01                                                                                 | PSD       | AI       | 15                        | 80                | 10.5                         | 41                   | MPC-5   | 1/2" NPT      | SS316                           | *            | *         | -              | A    | -      |
| 2326                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PT-7109B  | PRESSURE TRANSMITTER               | 17039-ND-P-DW-0217-03 | 4"-WF-71-7129-AG01                                                                                 | PSD       | AI       | 15                        | 80                | 10.5                         | 41                   | MPC-5   | 1/2" NPT      | SS316                           | *            | *         | -              | A    | -      |
| 2327                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XC-3130A  | START / STOP                       | 17039-ND-P-DW-0217-03 | ND-PM-3130A                                                                                        | DCS       | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2328                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XI-3130A  | RUNNING                            | 17039-ND-P-DW-0217-03 | ND-PM-3130A                                                                                        | DCS       | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2329                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XA-3130A  | FAULT ALARM                        | 17039-ND-P-DW-0217-03 | ND-PM-3130A                                                                                        | DCS       | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2330                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XE-3130A  | AVAILABLE                          | 17039-ND-P-DW-0217-03 | ND-PM-3130A                                                                                        | DCS       | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2331                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XB-3130A  | TRIP FEEDBACK                      | 17039-ND-P-DW-0217-03 | ND-PM-3130A                                                                                        | DCS       | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2332                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XS-3130A  | SHUTDOWN TRIP                      | 17039-ND-P-DW-0217-03 | ND-PM-3130A                                                                                        | PSD       | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2333                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XXS-3130A | SHUTDOWN TRIP                      | 17039-ND-P-DW-0217-03 | ND-PM-3130A                                                                                        | ESD       | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2334                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XC-3130B  | START / STOP                       | 17039-ND-P-DW-0217-03 | ND-PM-3130B                                                                                        | DCS       | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2335                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XI-3130B  | RUNNING                            | 17039-ND-P-DW-0217-03 | ND-PM-3130B                                                                                        | DCS       | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2336                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XA-3130B  | FAULT ALARM                        | 17039-ND-P-DW-0217-03 | ND-PM-3130B                                                                                        | DCS       | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2337                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XE-3130B  | AVAILABLE                          | 17039-ND-P-DW-0217-03 | ND-PM-3130B                                                                                        | DCS       | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2338                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XB-3130B  | TRIP FEEDBACK                      | 17039-ND-P-DW-0217-03 | ND-PM-3130B                                                                                        | DCS       | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2339                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XS-3130B  | SHUTDOWN TRIP                      | 17039-ND-P-DW-0217-03 | ND-PM-3130B                                                                                        | PSD       | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2340                                                                                                                                                                                                                                                                                                                                                                                                       | 71-XXS-3130B | SHUTDOWN TRIP                      | 17039-ND-P-DW-0217-03 | ND-PM-3130B                                                                                        | ESD       | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A           | N/A                             | *            | *         | -              | A    | -      |
| 2341                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-ND-P-DW-0217-04 | 71-ZZZ-7101                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2342                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-ND-P-DW-0217-04 | 71-ZZZ-7101                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2343                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-ND-P-DW-0217-04 | 71-ZZZ-7101                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2344                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-ND-P-DW-0217-04 | 71-ZZZ-7101                                                                                        | PSD       | DI       | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2345                                                                                                                                                                                                                                                                                                                                                                                                       | 71-SX-XXXX   | SOLENOID VALVE (DELUGE VALVE)      | 17039-ND-P-DW-0217-04 | 71-ZZZ-7101                                                                                        | F&G PANEL | DO       | 15                        | 80                | 10                           | 41                   | MPC - 5 | NA            | SS316                           | *            | *         | -              | A    | -      |
| 2346                                                                                                                                                                                                                                                                                                                                                                                                       | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE) | 17039-ND-P-DW-0217-04 | 71-ZZZ-7101                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ   | SS316                           | *            | *         | -              | A    | -      |
| 2347                                                                                                                                                                                                                                                                                                                                                                                                       | 71-RO-XXXX   | RESTRICTION ORIFICE                | 17039-ND-P-DW-0217-04 | 6"-WF-71-7301-AC01                                                                                 | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ   | SS316                           | *            | *         | -              | A    | -      |
| 2348                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-ND-P-DW-0217-04 | 71-ZZZ-7102                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2349                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-ND-P-DW-0217-04 | 71-ZZZ-7102                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2350                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-ND-P-DW-0217-04 | 71-ZZZ-7102                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2351                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-ND-P-DW-0217-04 | 71-ZZZ-7102                                                                                        | PSD       | DI       | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2352                                                                                                                                                                                                                                                                                                                                                                                                       | 71-SX-XXXX   | SOLENOID VALVE (DELUGE VALVE)      | 17039-ND-P-DW-0217-04 | 71-ZZZ-7102                                                                                        | F&G PANEL | DO       | 15                        | 80                | 10                           | 41                   | MPC - 5 | NA            | SS316                           | *            | *         | -              | A    | -      |
| 2353                                                                                                                                                                                                                                                                                                                                                                                                       | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE) | 17039-ND-P-DW-0217-04 | 71-ZZZ-7102                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ   | SS316                           | *            | *         | -              | A    | -      |
| 2354                                                                                                                                                                                                                                                                                                                                                                                                       | 71-RO-XXXX   | RESTRICTION ORIFICE                | 17039-ND-P-DW-0217-04 | 6"-WF-71-7304-AC01                                                                                 | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ   | SS316                           | *            | *         | -              | A    | -      |
| 2355                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-ND-P-DW-0217-04 | 71-ZZZ-7103                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2356                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-ND-P-DW-0217-04 | 71-ZZZ-7103                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2357                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-ND-P-DW-0217-04 | 71-ZZZ-7103                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2358                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-ND-P-DW-0217-04 | 71-ZZZ-7103                                                                                        | PSD       | DI       | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2359                                                                                                                                                                                                                                                                                                                                                                                                       | 71-SX-XXXX   | SOLENOID VALVE (DELUGE VALVE)      | 17039-ND-P-DW-0217-04 | 71-ZZZ-7103                                                                                        | F&G PANEL | DO       | 15                        | 80                | 10                           | 41                   | MPC - 5 | NA            | SS316                           | *            | *         | -              | A    | -      |
| 2360                                                                                                                                                                                                                                                                                                                                                                                                       | 71-RO-XXXX   | RESTRICTION ORIFICE (DELUGE VALVE) | 17039-ND-P-DW-0217-04 | 71-ZZZ-7103                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ   | SS316                           | *            | *         | -              | A    | -      |
| 2361                                                                                                                                                                                                                                                                                                                                                                                                       | 71-RO-XXXX   | RESTRICTION ORIFICE                | 17039-ND-P-DW-0217-04 | 6"-WF-71-7310-AC01                                                                                 | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ   | SS316                           | *            | *         | -              | A    | -      |
| 2362                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-ND-P-DW-0217-05 | 71-ZZZ-7104                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2363                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PG-XXXX   | PRESSURE INDICATOR (DELUGE VALVE)  | 17039-ND-P-DW-0217-05 | 71-ZZZ-7104                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2364                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-ND-P-DW-0217-05 | 71-ZZZ-7104                                                                                        | N/A       | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2365                                                                                                                                                                                                                                                                                                                                                                                                       | 71-PS-XXXX   | PRESSURE SWITCH (DELUGE VALVE)     | 17039-ND-P-DW-0217-05 | 71-ZZZ-7104                                                                                        | PSD       | DI       | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM      | SS316                           | *            | *         | -              | A    | -      |
| 2366                                                                                                                                                                                                                                                                                                                                                                                                       | 71-SX-XXXX   | SOLENOID VALVE (DELUGE VALVE)      | 17039-ND-P-DW-0217-04 | 71-ZZZ-7104                                                                                        | F&G PANEL | DO       | 15                        | 80                | 10                           | 41                   | MPC - 5 | NA            | SS316                           | *            | *         | -              | A    | -      |
| 2367                                                                                                                                                                                                                                                                                                                                                                                                       | 71><         |                                    |                       |                                                                                                    |           |          |                           |                   |                              |                      |         |               |                                 |              |           |                |      |        |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------|--------------------|----------|---------------------------|-------------------|------------------------------|----------------------|---------|----------------|------------------------------------|--------------|-----------|----------------|------|--------|--|--|
|                                                                                                                                                                                                                                                                        |               |                                                |                                   | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |                    |          |                           |                   |                              |                      |         |                |                                    |              | REV NO. : |                |      |        |  |  |
|                                                                                                                                                                                                                                                                        |               |                                                |                                   |                                                                                                   |                    |          |                           |                   |                              |                      |         |                |                                    |              | DATE :    |                |      |        |  |  |
| S.No                                                                                                                                                                                                                                                                   | Tag No        | INSTRUMENT DESCRIPTION                         | P&ID NO.                          | LINE / VESSEL NO.                                                                                 | SYSTEM             | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC     | SIZE / RATING  | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |  |
| 2380                                                                                                                                                                                                                                                                   | 71-SX-XXXX    | SOLENOID VALVE (DELUGE VALVE)                  | 17039-ND-P-DW-0217-04             | 71-ZZZ-7106                                                                                       | F&G PANEL          | DO       | 15                        | 80                | 10                           | 41                   | MPC - 5 | NA             | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2381                                                                                                                                                                                                                                                                   | 71-RO-XXXX    | RESTRICTION ORIFICE (DELUGE VALVE)             | 17039-ND-P-DW-0217-06             | 71-ZZZ-7106                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ    | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2382                                                                                                                                                                                                                                                                   | 71-RO-XXXX    | RESTRICTION ORIFICE                            | 17039-ND-P-DW-0217-06             | 6"-WF-71-7325-AC01                                                                                | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ    | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2383                                                                                                                                                                                                                                                                   | 71-PG-XXXX    | PRESSURE INDICATOR (DELUGE VALVE)              | 17039-ND-P-DW-0217-06             | 71-ZZZ-7107                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2384                                                                                                                                                                                                                                                                   | 71-PG-XXXX    | PRESSURE INDICATOR (DELUGE VALVE)              | 17039-ND-P-DW-0217-06             | 71-ZZZ-7107                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2385                                                                                                                                                                                                                                                                   | 71-PS-XXXX    | PRESSURE SWITCH (DELUGE VALVE)                 | 17039-ND-P-DW-0217-06             | 71-ZZZ-7107                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2386                                                                                                                                                                                                                                                                   | 71-PS-XXXX    | PRESSURE SWITCH (DELUGE VALVE)                 | 17039-ND-P-DW-0217-06             | 71-ZZZ-7107                                                                                       | PSD                | DI       | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2387                                                                                                                                                                                                                                                                   | 71-SX-XXXX    | SOLENOID VALVE (DELUGE VALVE)                  | 17039-ND-P-DW-0217-04             | 71-ZZZ-7107                                                                                       | F&G PANEL          | DO       | 15                        | 80                | 10                           | 41                   | MPC - 5 | NA             | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2388                                                                                                                                                                                                                                                                   | 71-RO-XXXX    | RESTRICTION ORIFICE (DELUGE VALVE)             | 17039-ND-P-DW-0217-06             | 71-ZZZ-7107                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ    | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2389                                                                                                                                                                                                                                                                   | 71-RO-XXXX    | RESTRICTION ORIFICE                            | 17039-ND-P-DW-0217-06             | 6"-WF-71-7331-AC01                                                                                | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ    | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2390                                                                                                                                                                                                                                                                   | 71-PG-XXXX    | PRESSURE INDICATOR (DELUGE VALVE)              | 17039-ND-P-DW-0217-06             | 71-ZZZ-7108                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2391                                                                                                                                                                                                                                                                   | 71-PG-XXXX    | PRESSURE INDICATOR (DELUGE VALVE)              | 17039-ND-P-DW-0217-06             | 71-ZZZ-7108                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2392                                                                                                                                                                                                                                                                   | 71-PS-XXXX    | PRESSURE SWITCH (DELUGE VALVE)                 | 17039-ND-P-DW-0217-06             | 71-ZZZ-7108                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2393                                                                                                                                                                                                                                                                   | 71-PS-XXXX    | PRESSURE SWITCH (DELUGE VALVE)                 | 17039-ND-P-DW-0217-06             | 71-ZZZ-7108                                                                                       | PSD                | DI       | 15                        | 80                | 10                           | 41                   | MPC - 5 | 1/2"NPTM       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2394                                                                                                                                                                                                                                                                   | 71-SX-XXXX    | SOLENOID VALVE (DELUGE VALVE)                  | 17039-ND-P-DW-0217-04             | 71-ZZZ-7108                                                                                       | F&G PANEL          | DO       | 15                        | 80                | 10                           | 41                   | MPC - 5 | NA             | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2395                                                                                                                                                                                                                                                                   | 71-RO-XXXX    | RESTRICTION ORIFICE (DELUGE VALVE)             | 17039-ND-P-DW-0217-06             | 71-ZZZ-7108                                                                                       | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ    | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2396                                                                                                                                                                                                                                                                   | 71-RO-XXXX    | RESTRICTION ORIFICE                            | 17039-ND-P-DW-0217-06             | 6"-WF-71-7337-AC01                                                                                | N/A                | N/A      | 15                        | 80                | 10                           | 41                   | MPC - 2 | 2"/2500#RTJ    | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2397                                                                                                                                                                                                                                                                   | 71-PI-7121A   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-AF-71-7136-AS01                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2398                                                                                                                                                                                                                                                                   | 71-PI-7121B   | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-AF-71-7139-AS01                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2399                                                                                                                                                                                                                                                                   | 71-PT-7122A   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-AF-71-7136-AS01                                                                                | PSD                | AI       | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2400                                                                                                                                                                                                                                                                   | 71-PT-7122B   | PRESSURE TRANSMITTER                           | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-AF-71-7139-AS01                                                                                | PSD                | AI       | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2401                                                                                                                                                                                                                                                                   | 71-PSV-7123A  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-AF-71-7140-AS20                                                                                | N/A                | N/A      | 12/FV                     | 80                | ATM                          | AMB                  | MPC-5   | 1" D 2"/150#RF | BODY , NOZZLE &DISC:<br>SS316      | *            | *         | -              | A    | -      |  |  |
| 2402                                                                                                                                                                                                                                                                   | 71-PSV-7123B  | PRESSURE SAFETY VALVE                          | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-AF-71-7139-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1" D 2"/150#RF | BODY , NOZZLE &DISC:<br>SS316      | *            | *         | -              | A    | -      |  |  |
| 2403                                                                                                                                                                                                                                                                   | 71-FT-8057A   | DP TYPE FLOW TRANSMITTER                       | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-WF-71-7138-AC01                                                                                | DCS                | AI       | 12/FV                     | 80                | ATM                          | AMB                  | MPC-5   | 1/2" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2404                                                                                                                                                                                                                                                                   | 71-LG/LT-7118 | MAGNETIC TYPE LEVEL INDICATOR WITH TRANSMITTER | 17039-ND-P-DW-0217-10<br>(1 OF 2) | ND-MZZ-3140                                                                                       | FOAM CONTROL PANEL | AI       | 12/FV                     | 80                | ATM                          | AMB                  | MPC-5   | 2"/150#RF      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2405                                                                                                                                                                                                                                                                   | 71-LT-8057    | LEVEL TRANSMITTER                              | 17039-ND-P-DW-0217-10<br>(1 OF 2) | DIESEL DAY TANK                                                                                   | USD                | AI       | 15                        | 80                | 12                           | AMB                  | MPC-5   | 2"/150# RF     | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2406                                                                                                                                                                                                                                                                   | 71-PCV-7250   | PRESSURE CONTROL VALVE                         | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-AF-71-7200-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1"/150#RF      | BODY:CARBONSTEEL /<br>TRIM : SS316 | *            | *         | -              | A    | -      |  |  |
| 2407                                                                                                                                                                                                                                                                   | 71-PS-8054    | PRESSURE SWITCH                                | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-WF-71-7138-AC01                                                                                | FOAM CONTROL PANEL | DI       | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2408                                                                                                                                                                                                                                                                   | 71-PS-8055    | PRESSURE SWITCH                                | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-WF-71-7138-AC01                                                                                | FOAM CONTROL PANEL | DI       | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2409                                                                                                                                                                                                                                                                   | 71-PS-8056    | PRESSURE SWITCH                                | 17039-ND-P-DW-0217-10<br>(1 OF 2) | 2"-WF-71-7138-AC01                                                                                | FOAM CONTROL PANEL | DI       | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPT       | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2410                                                                                                                                                                                                                                                                   | 71-XC-3150A   | START / STOP                                   | 17039-ND-P-DW-0217-10<br>(1 OF 2) | ND-PBA-3150A                                                                                      | DCS                | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A            | N/A                                | *            | *         | -              | A    | -      |  |  |
| 2411                                                                                                                                                                                                                                                                   | 71-XI-3150A   | RUNNING                                        | 17039-ND-P-DW-0217-10<br>(1 OF 2) | ND-PBA-3150A                                                                                      | DCS                | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A            | N/A                                | *            | *         | -              | A    | -      |  |  |
| 2412                                                                                                                                                                                                                                                                   | 71-XA-3150A   | FAULT ALARM                                    | 17039-ND-P-DW-0217-10<br>(1 OF 2) | ND-PBA-3150A                                                                                      | DCS                | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A            | N/A                                | *            | *         | -              | A    | -      |  |  |
| 2413                                                                                                                                                                                                                                                                   | 71-XE-3150A   | AVAILABLE                                      | 17039-ND-P-DW-0217-10<br>(1 OF 2) | ND-PBA-3150A                                                                                      | DCS                | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A            | N/A                                | *            | *         | -              | A    | -      |  |  |
| 2414                                                                                                                                                                                                                                                                   | 71-XS-3150A   | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0217-10<br>(1 OF 2) | ND-PBA-3150A                                                                                      | PSD                | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A            | N/A                                | *            | *         | -              | A    | -      |  |  |
| 2415                                                                                                                                                                                                                                                                   | 71-XXS-3150A  | SHUTDOWN TRIP                                  | 17039-ND-P-DW-0217-10<br>(1 OF 2) | ND-PBA-3150A                                                                                      | ESD                | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-5   | N/A            | N/A                                | *            | *         | -              | A    | -      |  |  |
| 2416                                                                                                                                                                                                                                                                   | 71-PI-7255    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(2 OF 2) | 2"-AF-71-7205-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2417                                                                                                                                                                                                                                                                   | 71-PI-7256    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(2 OF 2) | 2"-AF-71-7205-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2418                                                                                                                                                                                                                                                                   | 71-PI-7257    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(2 OF 2) | 2"-AF-71-7209-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2419                                                                                                                                                                                                                                                                   | 71-PI-7258    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(2 OF 2) | 2"-AF-71-7209-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2420                                                                                                                                                                                                                                                                   | 71-PI-7259    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(2 OF 2) | 2"-AF-71-7213-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2421                                                                                                                                                                                                                                                                   | 71-PI-7260    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(2 OF 2) | 2"-AF-71-7213-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2422                                                                                                                                                                                                                                                                   | 71-PI-7261    | PRESSURE INDICATOR                             | 17039-ND-P-DW-0217-10<br>(2 OF 2) | 2"-AF-71-7217-AS20                                                                                | N/A                | N/A      | 15                        | 80                | 12                           | AMB                  | MPC-5   | 1/2" NPTM      | SS316                              | *            | *         | -              | A    | -      |  |  |
| 2423                                                                                                                                                                                                                                                                   | 71-PI-7262    | PRESSURE INDICATOR                             | 17039-ND-P-DW                     |                                                                                                   |                    |          |                           |                   |                              |                      |         |                |                                    |              |           |                |      |        |  |  |

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|--------|----------|---------------------------|-------------------|------------------------------|----------------------|--------|---------------|------------------------------------|--------------|-----------|----------------|------|--------|--|
|                                                                                                                                                                                                                                                                |             |                                                             |                       | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN, ASSAM |        |          |                           |                   |                              |                      |        |               |                                    |              | REV NO. : |                |      |        |  |
|                                                                                                                                                                                                                                                                |             |                                                             |                       |                                                                                                   |        |          |                           |                   |                              |                      |        |               |                                    |              | DATE :    |                |      |        |  |
| S.No                                                                                                                                                                                                                                                           | Tag No      | INSTRUMENT DESCRIPTION                                      | P&ID NO.              | LINE / VESSEL NO.                                                                                 | SYSTEM | I/O TYPE | DESIGN PRESSURE (kg/cm2g) | DESIGN TEMP. (°C) | OPERATING PRESSURE (kg/cm2g) | OPERATING TEMP. (°C) | MPC    | SIZE / RATING | BODY MATERIAL                      | MANUFACTURER | MODEL NO. | DATA SHEET NO. | REV. | REMARK |  |
| 2441                                                                                                                                                                                                                                                           | 20-STR-2005 | OPEN COMMAND                                                | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2442                                                                                                                                                                                                                                                           | 20-STP-2005 | CLOSE COMMAND                                               | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2443                                                                                                                                                                                                                                                           | 20-XLT-2005 | TRIP                                                        | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2444                                                                                                                                                                                                                                                           | 20-MOV-2006 | MOTOR OPERATED VALVE (LOCAL CONTROL PANEL WITH PUSH BUTTON) | 17039-ND-P-DW-0219-01 | 3"-PL-20-2404-AC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 55                   | MPC-10 | 3"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 2445                                                                                                                                                                                                                                                           | 20-ZSL-2006 | OPEN FEEDBACK                                               | 17039-ND-P-DW-0219-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2446                                                                                                                                                                                                                                                           | 20-ZSH-2006 | CLOSE FEEDBACK                                              | 17039-ND-P-DW-0219-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2447                                                                                                                                                                                                                                                           | 20-SSR-2006 | REMOTE / LOCAL FEEDBACK                                     | 17039-ND-P-DW-0219-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2448                                                                                                                                                                                                                                                           | 20-STR-2006 | OPEN COMMAND                                                | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2449                                                                                                                                                                                                                                                           | 20-STP-2006 | CLOSE COMMAND                                               | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2450                                                                                                                                                                                                                                                           | 20-XLT-2006 | TRIP                                                        | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2451                                                                                                                                                                                                                                                           | 20-MOV-2007 | MOTOR OPERATED VALVE (LOCAL CONTROL PANEL WITH PUSH BUTTON) | 17039-ND-P-DW-0219-01 | 3"-PL-20-2405-AC01                                                                                | N/A    | N/A      | 15                        | 90                | 10                           | 55                   | MPC-10 | 3"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | -              | A    | -      |  |
| 2452                                                                                                                                                                                                                                                           | 20-ZSL-2007 | OPEN FEEDBACK                                               | 17039-ND-P-DW-0219-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2453                                                                                                                                                                                                                                                           | 20-ZSH-2007 | CLOSE FEEDBACK                                              | 17039-ND-P-DW-0219-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2454                                                                                                                                                                                                                                                           | 20-SSR-2007 | REMOTE / LOCAL FEEDBACK                                     | 17039-ND-P-DW-0219-01 | N/A                                                                                               | DCS    | DI       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2455                                                                                                                                                                                                                                                           | 20-STR-2007 | OPEN COMMAND                                                | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2456                                                                                                                                                                                                                                                           | 20-STP-2007 | CLOSE COMMAND                                               | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2457                                                                                                                                                                                                                                                           | 20-XLT-2007 | TRIP                                                        | 17039-ND-P-DW-0219-01 | N/A                                                                                               | ESD    | DO       | N/A                       | N/A               | N/A                          | N/A                  | MPC-10 | N/A           | N/A                                | *            | *         | -              | A    | -      |  |
| 2458                                                                                                                                                                                                                                                           | 20-FT-2008  | CORIO LIS TYPE FLOW METER - FISCAL FLOW METER               | 17039-ND-P-DW-0219-01 | 3"-PL-20-2402-AC01                                                                                | DCS    | AI       | 15                        | 90                | 10                           | 55                   | MPC 10 | 3"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | *              | A    | -      |  |
| 2459                                                                                                                                                                                                                                                           | 20-FT-2009  | CORIO LIS TYPE FLOW METER - FISCAL FLOW METER               | 17039-ND-P-DW-0219-01 | 3"-PL-20-2403-AC01                                                                                | DCS    | AI       | 15                        | 90                | 10                           | 55                   | MPC 10 | 3"/150#RF     | Body: carbon steel<br>Trim : SS316 | *            | *         | *              | A    | -      |  |