

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

**Corrigendum No. 3 to IFB No. CPI9725P19**

**Engineering, Fabrication and Supply of Modular Instrumentation  
Packages 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/EPCM's responses to the queries are generated. All the bidders are requested to refer to **Annexure- I** attached herewith.
  - b) Hazardous Area Classification Drawing sheet for OCS, Nadua is attached herewith as **Attachment – 1**.
  - c) Hazardous Area Classification Drawing sheet for GGS, East Khagorijan is attached herewith as **Attachment – 2**.
2. Extension of the Bid Closing/Technical Bid Opening date as under:-
  - i) **Bid Closing Date & Time** : 18.01.2019, 11:00 hrs. IST.
  - ii) **Technical Bid Opening Date & Time** : 18.01.2019, 14:00 hrs. IST.
3. All other terms and conditions of the tender remain unaltered.
4. All the prospective bidders are requested to regularly visit OIL's website: [www.oil-india.com](http://www.oil-india.com) and e-procurement portal <https://etender.srm.oilindia.in/irj/portal> for further announcements/latest information related to this tender.
5. Bidder to submit this Corrigendum No. 03 along with **Annexure – I and Attachments 1-2** duly signed & stamped in all pages as token of acceptance and shall upload this document in the un-priced folder of the e-bid.


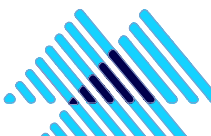
**Annexure – I****SUMMARY OF CONSULTANT/OIL's RESPONSE TO PRE-BID QUERIES**

<b>SL No</b>	<b>RFQ Section</b>	<b>Ref. Clause</b>	<b>Existing Clause / Vendor Query</b>	<b>Modified Clause / OIL / Consultant Response</b>
1.	General	-	3D lay out for electrical and instrumentation control , power and signal cable and tray	3D model is part of detail engineering and it is not available as of now
2.	General	-	Cable routing diagram	All cables are to be routed overhead. At road crossing cable has to pass through hume pipes. Cables shall be routed in the topmost layer of the pipe rack shown in the plot plan. Wherever pipe rack is not available, separate cable tray supports shall be considered.
3.	General	-	Equipment/Instrumentation installation location	Equipment location shall be referred in the plot plan. Instruments shall be identified in the respective P&ID of the module package as referred in Instrument Index.
4.	General	-	HAZOP/SIL study report	Based on the HAZOP and SIL study report, field instrument SIL rating is specified in datasheet
5.	General	-	Soil resistivity report	Soil resistivity Report will be shared to the successful bidder after award of contract
6.	General	-	Zone classification details	Bidder shall refer to Hazardous Area classification drawing attached.
7.	General	-	Design Basis for cable sizing	Bidder shall follow IEC standard
8.	General	-	Revised Electrical Load list/feeder List	Bidder shall refer to the revised SOR for the feeder list.
9.	General	-	Quantity will be derived basis on the engineering documents provided during pre-bid stage and it shall become part of the	Bidder understanding is not correct. SOR quantities are only the guideline values and the bidder to use their best judgement and provide

SL No	RFQ Section	Ref. Clause	Existing Clause / Vendor Query	Modified Clause / OIL / Consultant Response
			contract. Any Change with respect to the base documents will have time & cost implications.	offer on lump sum basis.
10.	General	-	Specifications of FRP Cable tray, CCTV Server, NVR, Ethernet switches, MCT	FRP cable tray, MCT - Bidder shall follow the specification mentioned in the latest SOR
11.	General	-	CCTV server-	Bidder shall consider standard industrial type CCTV Server
12.	General	-	NVR -Network video Recorder	Bidder shall consider standard industrial type NVR
13.	General	-	Ethernet Switches	Based on the system configuration diagram Bidder shall decide the number of ports of the Ethernet switches.
14.	General	-	MCT	Bidder shall follow the specification mentioned in the SOR
15.	General	-	Zone requirement of CCTV is not matching with the specifications provided. All CCTVs have been mentioned as ex-proof CCTV in specifications, which are actually not required as per zone classification	All CCTV PTZ outdoor cameras shall be Explosion Proof.
16.	General	-	The containers are shown in safe areas; however cable duct is shown passing through Zone-2 area. We understand that Zone-2 compliant cable duct are not available in the market place.	Bus duct is in safe area. Bidder shall refer the latest Hazardous area classification drawing attached.

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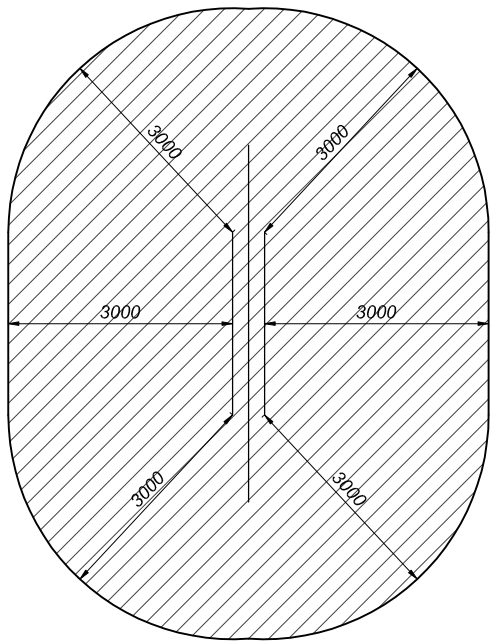
# CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN HAZARDOUS AREA CLASSIFICATION DRAWING

|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                    |               |                  |             |
|--|-----|-----------|----------------------|-------|--------|---------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|------------------|-------------|
|  |     |           |                      |       |        |         | COMPANY:          | <div><div>ऑयल इंडिया लिमिटेड<br/>(भारत सरकार का उद्यम)<br/><b>Oil India Limited</b><br/>(A Government of India Enterprise)</div></div> | PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES<br>(OCS & GGS) AT NADUA & EAST KHAGORIJAN                                                                                                                                 |                    |               |                  |             |
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                             | THIS DRAWING AND ALL DESIGN DETAILS AND DATA SHOWN HEREON, IS THE SOLE PROPERTY OF OIL INDIA LTD AND SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WHATSOEVER, EXCEPT BY WRITTEN PERMISSION OF OIL INDIA LTD. |                    |               |                  |             |
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                             | DOC NAME : HAZARDOUS AREA CLASSIFICATION DRAWING<br>COVER SHEET                                                                                                                                                               |                    |               |                  |             |
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                             | PROJECT NO.: KIP-17039                                                                                                                                                                                                        |                    | PROJECT SITE: | NADUA            |             |
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                             | DRAWING NO.:                                                                                                                                                                                                                  | 17039-ND-E-DW-9002 | REV: D        | SHEET : 01 of 04 | SCALE : NTS |
|  | D   | 21 DEC 18 | RE-ISSUED FOR REVIEW | NSK   | DS/AD  | MSB/MSR | EPCM CONSULTANT : | <div><div>KAVIN<sup>TM</sup></div></div>                                                                                               |                                                                                                                                                                                                                               |                    |               |                  |             |
|  | C   | 04 AUG 18 | ISSUED FOR REVIEW    | NSK   | DS/AD  | MSB/MSR |                   |                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                    |               |                  |             |
|  | B   | 21 FEB 18 | ISSUED FOR BID       | CP    | MVL/AD | MSB/MSR |                   |                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                    |               |                  |             |
|  | A   | 22 DEC 17 | ISSUED FOR REVIEW    | RIJ   | MVL/AD | MSB/MSR |                   |                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                    |               |                  |             |
|  | REV | DATE      | DESCRIPTION          | DRAWN | CHK.   | APPR.   |                   |                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                    |               |                  |             |

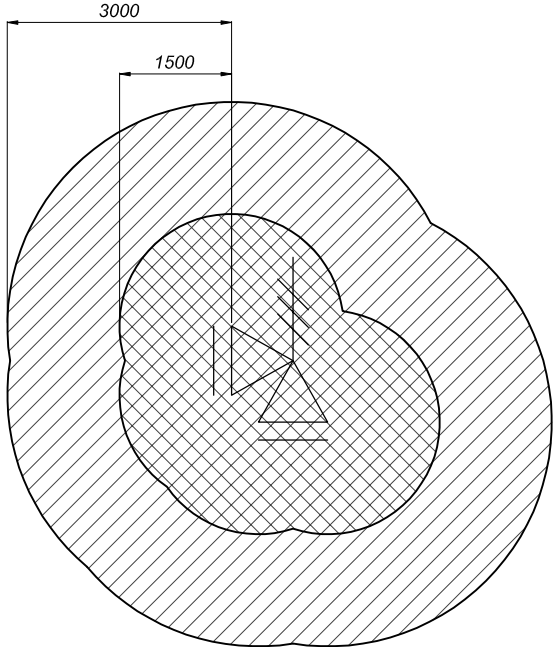
| SHEET NO. | DESCRIPTION                                         | REVISION DATE |           |           |           |  |  | REVISION DESCRIPTION               |
|-----------|-----------------------------------------------------|---------------|-----------|-----------|-----------|--|--|------------------------------------|
|           |                                                     | A             | B         | C         | D         |  |  |                                    |
| 1         | HAZARDOUS AREA CLASSIFICATION DRAWING – COVER SHEET | 22 DEC 17     | 21 FEB 18 | 04 AUG 18 | 21 DEC 18 |  |  | REV C:                             |
| 2         | HAZARDOUS AREA CLASSIFICATION DRAWING – INDEX SHEET | 22 DEC 17     | 21 FEB 18 | 04 AUG 18 | 21 DEC 18 |  |  | UPDATED BASED ON LATEST PLOT PLAN. |
| 3         | HAZARDOUS AREA CLASSIFICATION DRAWING – NOTES SHEET | 22 DEC 17     | 21 FEB 18 | 04 AUG 18 | 21 DEC 18 |  |  |                                    |
| 4         | HAZARDOUS AREA CLASSIFICATION DRAWING               | 22 DEC 17     | 21 FEB 18 | 04 AUG 18 | 21 DEC 18 |  |  |                                    |
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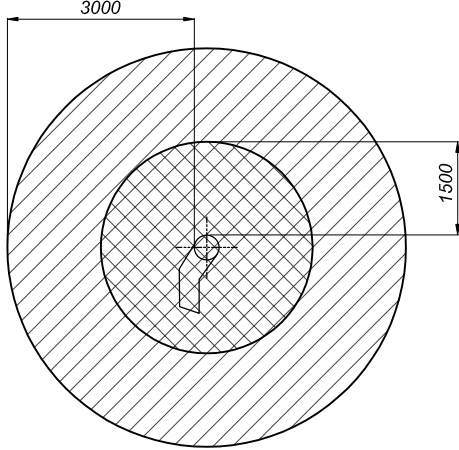
1. ALL DIMENSIONS ARE IN MILLIMETERS. ELEVATION AND COORDINATES ARE IN METERS UNLESS OTHERWISE STATED.
2. THE AREA AROUND A NON ENCLOSED HEADER OR MANIFOLD LOCATED IN AN ADEQUATELY VENTILATED AREAS IS NON HAZARDOUS AREA.
3. THE AREA AROUND SCREWED CONNECTIONS, FLANGES, CHECK VALVE, BLOCK VALVES, SAMPLE VALVES & INSTRUMENT DRAIN VALVES IN NON-ENCLOSED ADEQUATELY VENTILATED AREAS IS "NON HAZARDOUS AREA".
4. THE AREA AROUND PROCESS CONTROL VALVES IN NON-ENCLOSED ADEQUATELY VENTILATED AREAS IS CLASSIFIED AS "ZONE-2" WITHIN 50CM OF THE STEM SEAL.
5. ALL ELECTRICAL EQUIPMENTS INSIDE THE PROCESS UNITS SHALL BE SUITABLE FOR ZONE-2 IRRESPECTIVE OF AREA BEING SAFE OR CLASSIFIED.
6. THE AREA WITHIN 1.5M (EXTENDING IN ALL DIRECTIONS) OF SAFETY VENTS, PRODUCTS SAMPLING LOCATIONS, PROCESS WATER DRAINS, OILY SEWER VENTS, INSPECTION HATCHES, DISCHARGE ORIFICE OF FIXED LIQUID LEVEL GAUGES, ROTARY OR DIP GAUGES, FILLER OPENINGS, SHALL BE CLASSIFIED AS ZONE-1. FURTHER AN AREA FROM 1.5M TO 3.0M (EXTENDING IN ALL DIRECTIONS) FROM VENTS SHALL BE CLASSIFIED AS ZONE-2. HOWEVER THE VENTS OR DRAINS BLANKED DURING NORMAL OPERATION AND USED ONLY WHEN THE PLANT IS DEPRESSURIZED OR UNDER SHUT DOWN, SHOULD NOT BE REGARDED AS AN OPERATIONAL VENT OR DRAIN OR SOURCE OF HAZARD.
7. OPEN TRENCHES, PITS OR SUMP BELOW GRADE WITHIN ZONE-2 AREA SHALL BE CLASSIFIED AS ZONE-1 AREA.
8. IN CASE OF PIPELINE HANDLING FLAMMABLE MATERIAL, WHERE WELL MAINTAINED VALVES, FITTINGS AND METERS OF PIPELINE SYSTEMS ARE INSTALLED IN WELL VENTILATED AREAS OR PIT, THE EXTENT OF ZONE-2 AREA ABOVE GROUND SHALL BE CONSIDERED AS 3.0M IN ALL DIRECTIONS FROM THE POSSIBLE SOURCE OF HAZARD, ALTHOUGH THE PIT ITSELF SHALL BE CLASSIFIED AS ZONE-1 AREA.
9. ROADS FULLY/PARTIALLY COVERED UNDER HAZARDOUS AREA CLASSIFICATION SHALL BE BARRICADED FOR VEHICULAR MOVEMENT.
10. ALL ELECTRICAL AND INSTRUMENTATION APPARATUS WITHIN THE CLASSIFIED AREA SHALL BE SUITABLE FOR GAS GROUP IIA/IIB AND TEMPERATURE CLASS OF T3.
11. PITS, SUMPS, TRENCHES BELOW GROUND LEVEL SHALL BE ZONE-1 HAZARDOUS AREA AND THE AREA LYING UPTO 3.0m IN HORIZONTAL DIRECTION FROM THR EDGE OF ANY TRENCH OR PIT AND 0.5m VERTICALLY ABOVE PITS, SUMPS OR TRENCHES SHALL BE "ZONE-2" HAZARDOUS AREA.
12. AREA CLASSIFICATION FOR VERTICAL EXTENTS SHALL BE PROVIDED DURING DETAILED ENGINEERING.
13. AREA CLASSIFICATION IS BASED ON OISD-STD-113 AND OMR 2017.
14. HAZARDOUS AREA CLASSIFICATION APPLICABLE FOR VENTS, PSVs & FLANGES.



TYPICAL FLANGED JOINT ON PIPELINES,  
EQUIPMENT & VALVES



TYPICAL FOR PRESSURE SAFETY VALVE



TYPICAL FOR VENT

HOLD:

1. GAS SUPPLY TIE-IN FOR CPP SHALL BE CLASSIFIED IN NEXT REVISION.
2. FINISHED GRADE LEVEL AND DYKE WALL HEIGHT DETAIL SHALL BE PROVIDED LATER.
3. ETP AND BOWSER OFFLOADING FACILITY AREA CLASSIFICATION SHOWN IS INDICATIVE ONLY. THE EXACT CLASSIFICATION SHALL BE PROVIDED DURING DETAILED ENGINEERING.
4. API SEPERATOR IN ETP AREA SHALL BE CLASSIFIED AS ZONE-1. THE SAME SMALL BE INDICATED DURING DETAILED ENGINEERING.

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1. OVERALL PLOT PLAN      -      17039-ND-L-DW-4001

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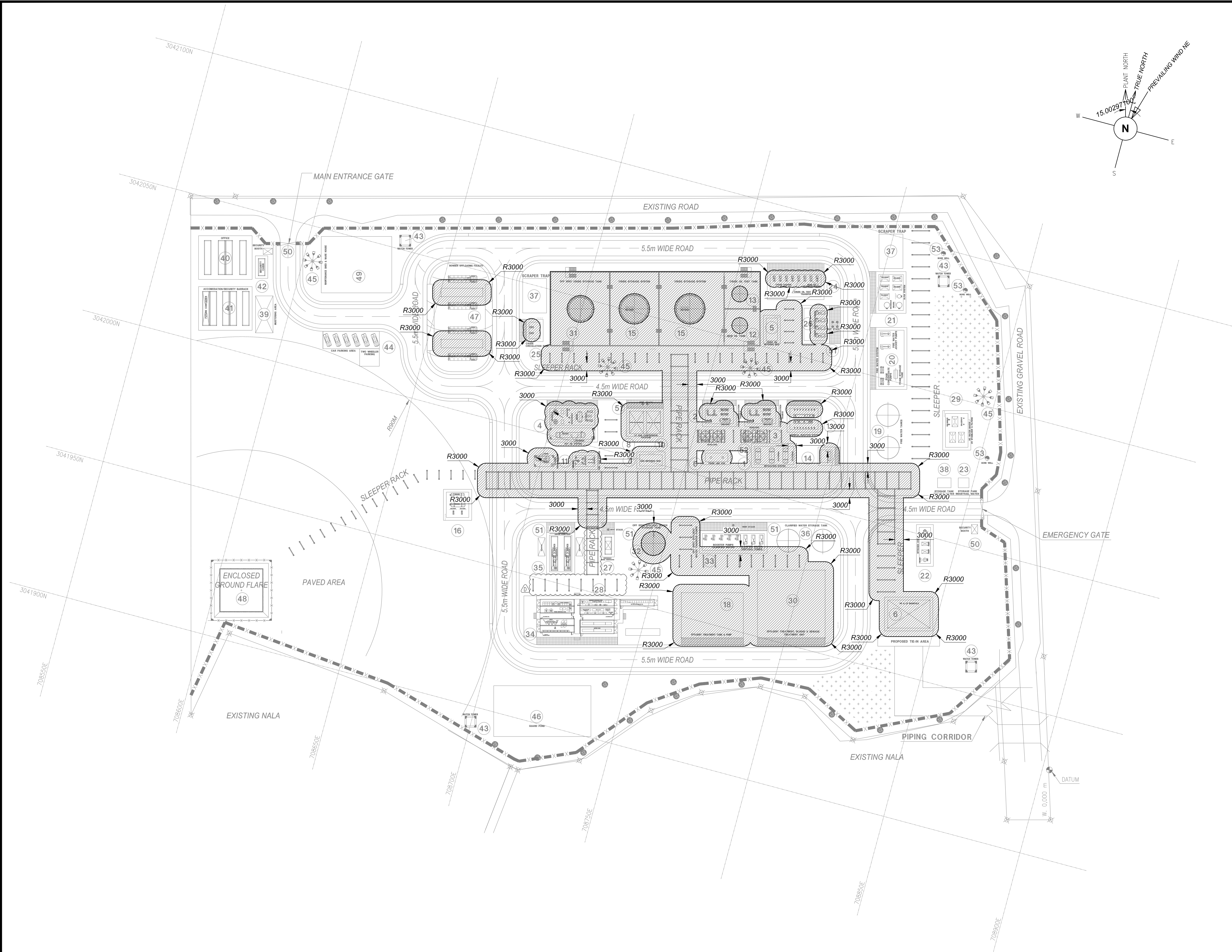
1. OVERALL PLOT PLAN      -      17039-ND-L-DW-4001

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REFERENCE DRAWING:

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HAZARDOUS AREA CLASSIFICATION DRAWING - NADUVA

LEGENDS

(AS PER OISD–STD–113)

HAZARDOUS AREA CLASSIFICATION ZONE 0

HAZARDOUS AREA CLASSIFICATION ZONE–1

HAZARDOUS AREA CLASSIFICATION ZONE–2

NON HAZARDOUS AREA (UNCLASSIFIED)

|     |           |                      |       |          |         |
|-----|-----------|----------------------|-------|----------|---------|
|     |           |                      |       |          |         |
|     |           |                      |       |          |         |
|     |           |                      |       |          |         |
|     |           |                      |       |          |         |
| D   | 21 DEC 18 | RE–ISSUED FOR REVIEW | NSK   | DS/AD    | MSB/MSR |
| C   | 04 AUG 18 | ISSUED FOR REVIEW    | NSK   | DS/AD    | MSB/MSR |
| B   | 21 FEB 18 | ISSUED FOR BID       | CP    | MVL/AD   | MSB/MSR |
| A   | 08 DEC 17 | ISSUED FOR REVIEW    | MNS   | SHIV/ASH | MSB/MSR |
| REV | DATE      | DESCRIPTION          | DRAWN | CHK.     | APPR.   |

COMPANY:

ऑयल इंडिया लिमिटेड

(भारत सरकार का उद्यम)

Oil India Limited

(A Government of India Enterprise)

EPCM CONSULTANT:

KAVIN™

PROJECT :

CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN

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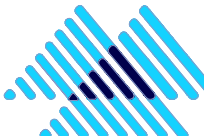
DOC NAME :

HAZARDOUS AREA CLASSIFICATION DRAWING

|              |                    |               |                  |
|--------------|--------------------|---------------|------------------|
| PROJECT NO.: | KIP-17039          | PROJECT SITE: | NADUA            |
| DRAWING NO.: | 17039-ND-E-DW-9002 | REV: D        | SHEET : 04 of 04 |
|              |                    |               | SCALE : 1:700    |



# CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN HAZARDOUS AREA CLASSIFICATION DRAWING

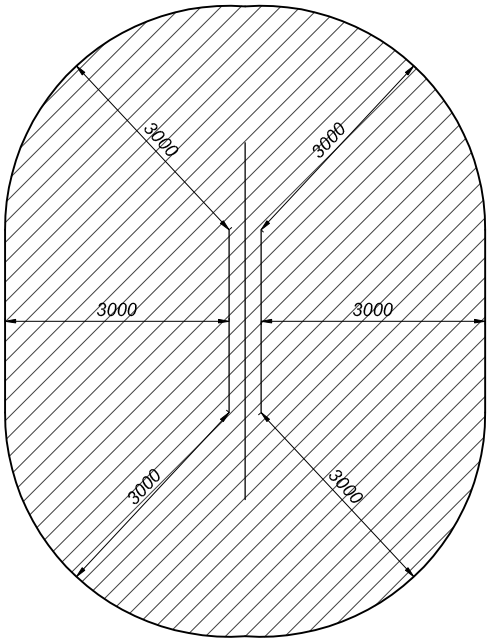
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |  |               |                  |             |
|--|-----|-----------|----------------------|-------|--------|---------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|------------------|-------------|
|  |     |           |                      |       |        |         | COMPANY:          | <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 : CREATION OF SURFACE PRODUCTION FACILITIES<br>(OCS & GGS) AT NADUA & EAST KHAGORIJAN                                                                                                                                 |  |               |                  |             |
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                            | THIS DRAWING AND ALL DESIGN DETAILS AND DATA SHOWN HEREON, IS THE SOLE PROPERTY OF OIL INDIA LTD AND SHALL NOT BE REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WHATSOEVER, EXCEPT BY WRITTEN PERMISSION OF OIL INDIA LTD. |  |               |                  |             |
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                            | DOC NAME : HAZARDOUS AREA CLASSIFICATION DRAWING<br>COVER SHEET                                                                                                                                                               |  |               |                  |             |
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                            | PROJECT NO.: KIP-17039                                                                                                                                                                                                        |  | PROJECT SITE: | EAST KHAGORIJAN  |             |
|  |     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                            | DRAWING NO.: 17039-EK-E-DW-9002                                                                                                                                                                                               |  | REV: D        | SHEET : 01 of 04 | SCALE : NTS |
|  | D   | 21 DEC 18 | RE-ISSUED FOR REVIEW | RIJ   | MVL/AD | MSB/MSR | EPCM CONSULTANT : | <div><div><b>KAVIN</b><sup>TM</sup></div></div>                                                                                                       |                                                                                                                                                                                                                               |  |               |                  |             |
|  | C   | 04 AUG 18 | ISSUED FOR REVIEW    | RIJ   | MVL/AD | MSB/MSR |                   |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |  |               |                  |             |
|  | B   | 21 FEB 18 | ISSUED FOR BID       | CP    | MVL/AD | MSB/MSR |                   |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |  |               |                  |             |
|  | A   | 22 DEC 17 | ISSUED FOR REVIEW    | RIJ   | MVL/AD | MSB/MSR |                   |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |  |               |                  |             |
|  | REV | DATE      | DESCRIPTION          | DRAWN | CHK.   | APPR.   |                   |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |  |               |                  |             |



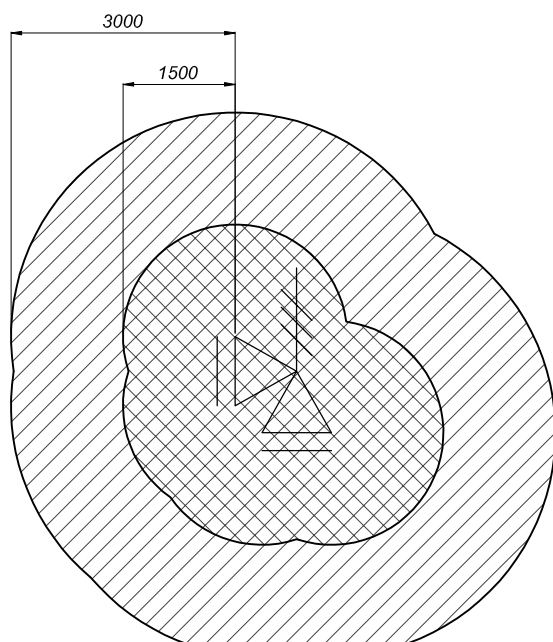


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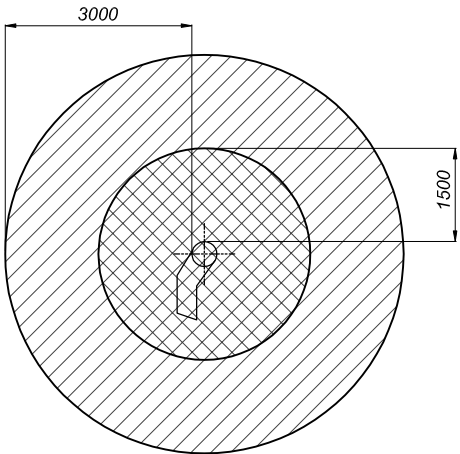
1. ALL DIMENSIONS ARE IN MILLIMETERS. ELEVATION AND COORDINATES ARE IN METERS UNLESS OTHERWISE STATED.
2. THE AREA AROUND A NON ENCLOSED HEADER OR MANIFOLD LOCATED IN AN ADEQUATELY VENTILATED AREAS IS NON HAZARDOUS AREA.
3. THE AREA AROUND SCREWED CONNECTIONS, FLANGES, CHECK VALVE, BLOCK VALVES, SAMPLE VALVES & INSTRUMENT DRAIN VALVES IN NON-ENCLOSED ADEQUATELY VENTILATED AREAS IS "NON HAZARDOUS AREA".
4. THE AREA AROUND PROCESS CONTROL VALVES IN NON-ENCLOSED ADEQUATELY VENTILATED AREAS IS CLASSIFIED AS "ZONE-2" WITHIN 50CM OF THE STEM SEAL.
5. ALL ELECTRICAL EQUIPMENTS INSIDE THE PROCESS UNITS SHALL BE SUITABLE FOR ZONE-2 IRRESPECTIVE OF AREA BEING SAFE OR CLASSIFIED.
6. THE AREA WITHIN 1.5M (EXTENDING IN ALL DIRECTIONS) OF SAFETY VENTS, PRODUCTS SAMPLING LOCATIONS, PROCESS WATER DRAINS, OILY SEWER VENTS, INSPECTION HATCHES, DISCHARGE ORIFICE OF FIXED LIQUID LEVEL GAUGES, ROTARY OR DIP GAUGES, FILLER OPENINGS, SHALL BE CLASSIFIED AS ZONE-1. FURTHER AN AREA FROM 1.5M TO 3.0M (EXTENDING IN ALL DIRECTIONS) FROM VENTS SHALL BE CLASSIFIED AS ZONE-2. HOWEVER THE VENTS OR DRAINS BLANKED DURING NORMAL OPERATION AND USED ONLY WHEN THE PLANT IS DEPRESSURIZED OR UNDER SHUT DOWN, SHOULD NOT BE REGARDED AS AN OPERATIONAL VENT OR DRAIN OR SOURCE OF HAZARD.
7. OPEN TRENCHES, PITS OR SUMP BELOW GRADE WITHIN ZONE-2 AREA SHALL BE CLASSIFIED AS ZONE-1 AREA.
8. IN CASE OF PIPELINE HANDLING FLAMMABLE MATERIAL, WHERE WELL MAINTAINED VALVES, FITTINGS AND METERS OF PIPELINE SYSTEMS ARE INSTALLED IN WELL VENTILATED AREAS OR PIT, THE EXTENT OF ZONE-2 AREA ABOVE GROUND SHALL BE CONSIDERED AS 3.0M IN ALL DIRECTIONS FROM THE POSSIBLE SOURCE OF HAZARD, ALTHOUGH THE PIT ITSELF SHALL BE CLASSIFIED AS ZONE-1 AREA.
9. ROADS FULLY/PARTIALLY COVERED UNDER HAZARDOUS AREA CLASSIFICATION SHALL BE BARRICADED FOR VEHICULAR MOVEMENT.
10. ALL ELECTRICAL AND INSTRUMENTATION APPARATUS WITHIN THE CLASSIFIED AREA SHALL BE SUITABLE FOR GAS GROUP IIA/IIB AND TEMPERATURE CLASS OF T3.
11. PITS, SUMPS, TRENCHES BELOW GROUND LEVEL SHALL BE ZONE-1 HAZARDOUS AREA AND THE AREA LYING UPTO 3.0m IN HORIZONTAL DIRECTION FROM THR EDGE OF ANY TRENCH OR PIT AND 0.5m VERTICALLY ABOVE PITS, SUMPS OR TRENCHES SHALL BE "ZONE-2" HAZARDOUS AREA.
12. AREA CLASSIFICATION FOR VERTICAL EXTENTS SHALL BE PROVIDED DURING DETAILED ENGINEERING.
13. AREA CLASSIFICATION IS BASED ON OISD-STD-113 AND OMR 2017.
14. HAZARDOUS AREA CLASSIFICATION APPLICABLE FOR VENTS, PSVs & FLANGES.



TYPICAL FLANGED JOINT ON PIPELINES,  
EQUIPMENT & VALVES



TYPICAL FOR PRESSURE SAFETY VALVE




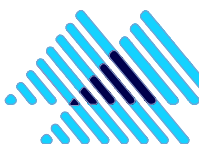
TYPICAL FOR VENT

HOLD:

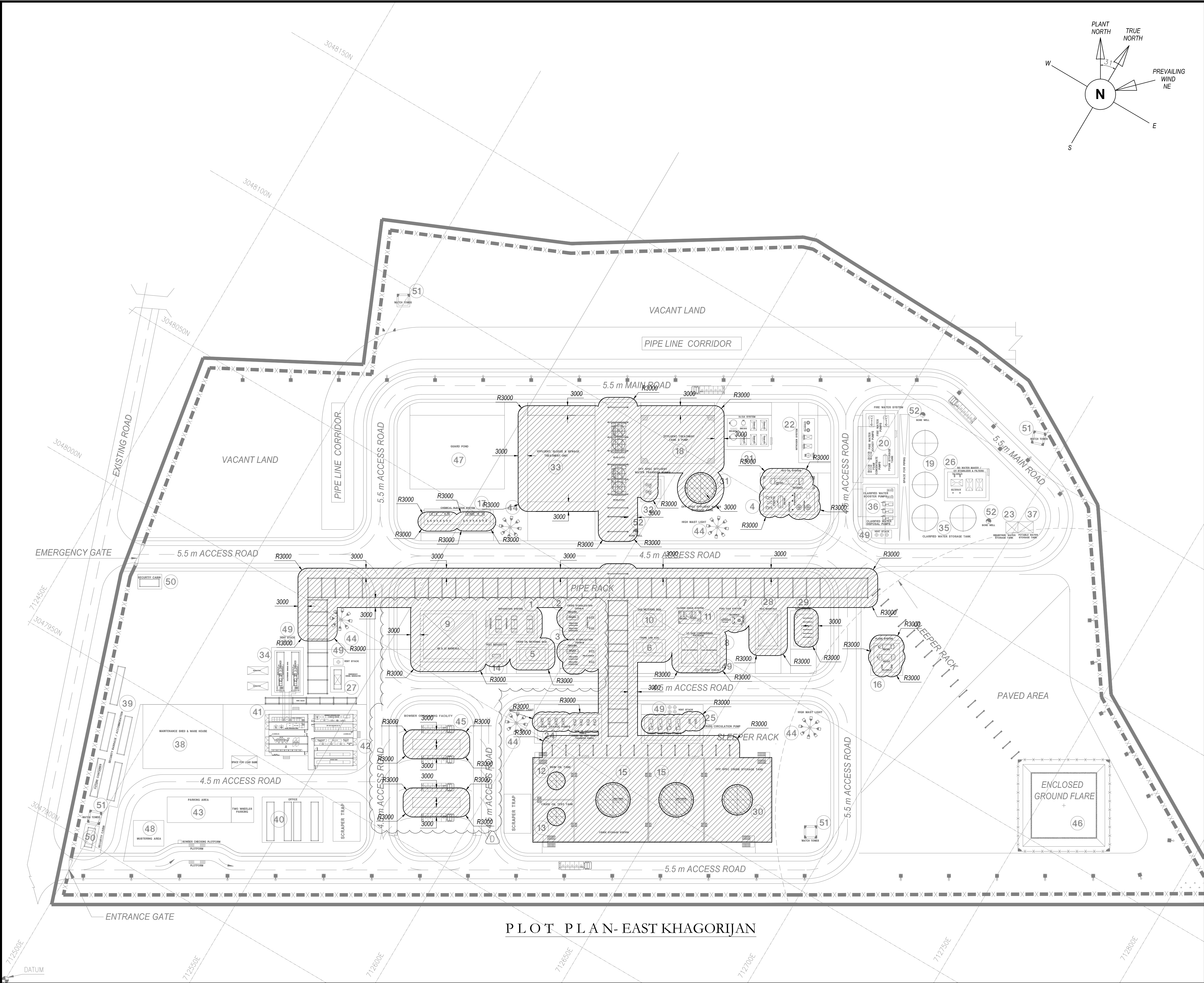
1. GAS SUPPLY TIE-IN FOR CPP SHALL BE CLASSIFIED IN NEXT REVISION.
2. FINISHED GRADE LEVEL AND DYKE WALL HEIGHT DETAIL SHALL BE PROVIDED LATER.
3. ETP AND BOWSER OFFLOADING FACILITY AREA CLASSIFICATION SHOWN IS INDICATIVE ONLY. THE EXACT CLASSIFICATION SHALL BE PROVIDED DURING DETAILED ENGINEERING.
4. API SEPERATOR IN ETP AREA SHALL BE CLASSIFIED AS ZONE-1. THE SAME SMALL BE INDICATED DURING DETAILED ENGINEERING.

REFERENCE DRAWING:

1. OVERALL PLOT PLAN      —      17039-EK-L-DW-4001

|     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |  |               |                  |
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|     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                                          | DOC NAME : HAZARDOUS AREA CLASSIFICATION DRAWING<br>NOTES SHEET                                                                                                                                                               |  |               |                  |
|     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                                          | PROJECT NO.: KIP-17039                                                                                                                                                                                                        |  | PROJECT SITE: | EAST KHAGORIJAN  |
|     |           |                      |       |        |         |                   |                                                                                                                                                                                                                                                          | DRAWING NO.: 17039-EK-E-DW-9002                                                                                                                                                                                               |  | REV: D        | SHEET : 03 of 04 |
| D   | 21 DEC 18 | RE-ISSUED FOR REVIEW | RIJ   | MVL/AD | MSB/MSR | EPCM CONSULTANT : | <div><div></div><div><b>KAVIN</b><sup>TM</sup></div></div>                                                                                                          |                                                                                                                                                                                                                               |  |               |                  |
| C   | 04 AUG 18 | ISSUED FOR REVIEW    | RIJ   | MVL/AD | MSB/MSR |                   |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |  |               |                  |
| B   | 21 FEB 18 | ISSUED FOR BID       | CP    | MVL/AD | MSB/MSR |                   |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |  |               |                  |
| A   | 22 DEC 17 | ISSUED FOR REVIEW    | RIJ   | MVL/AD | MSB/MSR |                   |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |  |               |                  |
| REV | DATE      | DESCRIPTION          | DRAWN | CHK.   | APPR.   |                   |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |  |               |                  |





PLOT PLAN- EAST KHAGORIJAN

EQUIPMENT LEGEND

| ITEM. NO. | DESCRIPTION                                                                    | SIZE (mm)                  | CONTAINER (Y/N) | SHED (Y/N) | CRANE (CAPACITY) |
|-----------|--------------------------------------------------------------------------------|----------------------------|-----------------|------------|------------------|
| 1         | SEPARATION SYSTEM                                                              | 14000 L X 6500 W           | N               | N          | –                |
| 2         | CRUDE STABILIZATION TRAIN–A                                                    | 10000 L X 5500 W           | N               | N          | –                |
| 3         | CRUDE STABILIZATION TRAIN–B                                                    | 10000 L X 5500 W           | N               | N          | –                |
| 4         | HOT OIL SYSTEM (NOTE–11)                                                       | 16000 L X 11000 W          | N               | Y          | –                |
| 5         | CRUDE OIL METERING SKID                                                        | 8000 L X 4000 W            | N               | N          | –                |
| 6         | TRUNK LINE KOD                                                                 | 8000 L X 3100 W            | N               | N          | –                |
| 7         | FUEL GAS SYSTEM                                                                | 7000 L X 4000 W            | N               | N          | –                |
| 8         | LP GAS COMPRESSION PACKAGE                                                     | 11000 L X 8000 W           | N               | N          | –                |
| 9         | HP,LP MANIFOLD SYSTEM                                                          | 15500 L X 14000 W          | N               | N          | –                |
| 10        | GAS METERING SKID                                                              | 8000 L X 4000 W            | N               | N          | –                |
| 11        | CLOSED DRAIN SYSTEM                                                            | 7000 L X 4000 W            | N               | Y          | H.O.T            |
| 12        | SKIM OIL TANK                                                                  | 5500 (I/D) X 8000 (H)      | N               | N          | –                |
| 13        | CRUDE OIL TEST TANK                                                            | 5550 (I/D) X 8300 (H)      | N               | N          | –                |
| 14        | TEST SEPARATOR                                                                 | 4500 L X 4000 W            | N               | N          | –                |
| 15        | TREATED CRUDE STORAGE TANK A/B                                                 | 9500 (I/D) X 14250 (H)     | N               | N          | –                |
| 16        | FLARE SYSTEM                                                                   | 9000 L X 8000 W            | N               | N          | –                |
| 17        | CHEMICAL INJECTION SYSTEM                                                      | 10000 L X 7500 W           | N               | N          | –                |
| 18        | EFFLUENT TREATMENT TANK & PUMP                                                 | 23000 L X 15000 W X 4000 H | N               | N          | –                |
| 19        | FIRE WATER TANKS A/B                                                           | 7900 I/D X 10000 H         | N               | N          | –                |
| 20        | FIRE WATER & FOAM CONCENTRATE PUMPS                                            | 20000 L X 9000 W           | N               | Y          | E.O.T            |
| 21        | IA/UA SYSTEM                                                                   | 12800 L X 8700 W           | N               | N          | –                |
| 22        | NITROGEN SYSTEM                                                                | 12800 L X 4000 W           | N               | N          | –                |
| 23        | INDUSTRIAL WATER STORAGE TANK                                                  | 3800 L X 3500 W X 5000 H   | N               | N          | –                |
| 24        | CRUDE CHARGE PUMPS, CRUDE OIL TEST TANK TRANSFER PUMP & SKIM OIL TRANSFER PUMP | 19000 L X 7000 W           | N               | Y          | E.O.T            |
| 25        | CRUDE CIRCULATION PUMP & CRUDE DISPATCH PUMP                                   | 17300 L X 7000 W           | N               | Y          | E.O.T            |
| 26        | RO WATER MAKER/UV STABILIZER & FILTERS                                         | 12000 L X 8000 W           | N               | N          | –                |
| 27        | EMERGENCY DIESEL GENERATOR                                                     | 8000 L X 4400 W            | Y               | N          | –                |
| 28        | NAG MANIFOLD                                                                   | 10000 L X 6000 W           | N               | N          | –                |
| 29        | NAG SYSTEM                                                                     | 10000 L X 6000 W           | N               | N          | –                |
| 30        | OFF SPEC CRUDE STORAGE TANK                                                    | 8230 I/D X 12100 H         | N               | N          | –                |
| 31        | OFF SPEC EFFLUENT WATER STORAGE TANK                                           | 8450 I/D X 12600 H         | N               | N          | –                |
| 32        | OFF SPEC EFFLUENT WATER TRANSFER PUMPS                                         | 6000 L X 5300 W            | N               | Y          | H.O.T            |
| 33        | EFFLUENT, SLUDGE & SEWAGE TREATMENT UNIT                                       | 27000 L X 21000 W          | N               | N          | –                |
| 34        | CAPTIVE POWER PLANT                                                            | 13000 L X 8000 W           | Y (QTY–2)       | N          | –                |
| 35        | CLARIFIED WATER STORAGE TANK                                                   | 8100 I/D X 12000 H         | N               | N          | –                |
| 36        | CLARIFIED & BOOSTER PUMPS                                                      | 12000 L X 11800 W          | N               | Y          | H.O.T            |
| 37        | POTABLE WATER STORAGE TANK                                                     | 4800 L X 3500 W X 5000 H   | N               | N          | –                |
| 38        | MAINTENANCE SHED & STORE ROOM                                                  | 30000 L X 20000 W          | N               | Y          | E.O.T            |
| 39        | SECURITY BARRACK / ACCOMMODATION                                               | –                          | Y (QTY–5)       | N          | –                |
| 40        | OFFICE                                                                         | –                          | Y (QTY–4)       | N          | –                |
| 41        | CONTROL ROOM                                                                   | –                          | Y (QTY–2)       | N          | –                |
| 42        | SUBSTATION (SWITCH ROOM/MCC ROOM)                                              | –                          | Y (QTY–6)       | N          | –                |
| 43        | PARKING AREA                                                                   | 16000 L X 8000 W           | N               | Y          | –                |
| 44        | HIGH MAST LIGHT (QTY–3)                                                        | –                          | N               | N          | –                |
| 45        | BOWSER OFFLOADING FACILITY                                                     | –                          | N               | Y          | –                |
| 46        | ENCLOSED GROUND FLARE                                                          | –                          | N               | N          | –                |
| 47        | GUARD POND                                                                     | 29500 L X 23000 W          | N               | N          | –                |
| 48        | MUSTERING AREA                                                                 | 9500 L X 8000 W            | N               | N          | –                |
| 49        | VENT STACK (QTY–6)                                                             | –                          | N               | N          | –                |
| 50        | SECURITY CABIN (QTY–2)                                                         | –                          | Y               | N          | –                |
| 51        | WATCH TOWER (QTY–4)                                                            | –                          | N               | N          | –                |
| 52        | BORE WELL (QTY–3)                                                              | –                          | N               | N          | –                |

| LEGENDS               |                                      |                      |       |        |         |
|-----------------------|--------------------------------------|----------------------|-------|--------|---------|
| (AS PER OISD–STD–113) |                                      |                      |       |        |         |
|                       | HAZARDOUS AREA CLASSIFICATION ZONE 0 |                      |       |        |         |
|                       | HAZARDOUS AREA CLASSIFICATION ZONE–1 |                      |       |        |         |
|                       | HAZARDOUS AREA CLASSIFICATION ZONE–2 |                      |       |        |         |
|                       | NON HAZARDOUS AREA (UNCLASSIFIED)    |                      |       |        |         |
| D                     | 21 DEC 18                            | RE–ISSUED FOR REVIEW | RJ    | MVL/AD | MSB/MSR |
| C                     | 04 AUG 18                            | ISSUED FOR REVIEW    | RJ    | MVL/AD | MSB/MSR |
| B                     | 21 FEB 18                            | ISSUED FOR BID       | CP    | MVL/AD | MSB/MSR |
| A                     | 22 DEC 17                            | ISSUED FOR REVIEW    | TN    | MVL/AD | MSB/MSR |
| REV                   | DATE                                 | DESCRIPTION          | DRAWN | CHK.   | APPR.   |

COMPANY:



EPCM CONSULTANT :



|                                                                                                                                                                                                                               |                    |                 |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|------------------|
| PROJECT : CREATION OF SURFACE PRODUCTION FACILITIES (OCS & GGS) AT NADUA & EAST KHAGORIJAN                                                                                                                                    |                    |                 |                  |
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| DOC NAME : HAZARDOUS AREA CLASSIFICATION DRAWING                                                                                                                                                                              |                    |                 |                  |
| PROJECT NO.: KIP-17039                                                                                                                                                                                                        | PROJECT SITE:      | EAST KHAGORIJAN |                  |
| DRAWING NO.:                                                                                                                                                                                                                  | 17039-EK-E-DW-9002 | REV: D          | SHEET : 04 of 04 |
|                                                                                                                                                                                                                               |                    | SCALE : 1:600   |                  |