



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)

(A GOVT. OF INDIA ENTERPRISE)
CONTRACTS DEPARTMENT
PIPELINE HEADQUARTERS
GUWAHATI – 781171, ASSAM
E-mail: contracts_phq@oilindia.in

CONTRACT SECTION, PHQ NOONMATI

Date: 27.06.2025

CORRIGENDUM – 1 FOR OIL TENDER NO. GEM/2025/B/6333777

1. THIS CORRIGENDUM IS BEING ISSUED AS PER THE FOLLOWING:

- a) Definition of similar work against the clause 3.1 Past Experience (second paragraph) of BEC/BRC/PQC to be read as given below:**

Similar work shall mean “Intelligent Pigging Survey (IPS) for Hydrocarbon Pipelines of minimum nominal diameter of 203 mm (8 inch) for a minimum section length 20 KM in a single stretch in a single contract with “High Resolution” ILI tool with XYZ mapping.”

- b) Scope of Work: TERMS OF REFERENCE, Clause 5.2(ii) to be read as given below:**

The table with dimensional accuracy of reported defects shall be as mentioned below:

Sl No	Description, Defect size (Length X Width)	Min. defect depth detected at the confidence level at 90% (POD)	Accuracy of defect size measurement at the confidence level of 80%		
			Length	Width	Depth
a	General corrosion(4t X 4t)	0.10t	± 10 mm	± 10 mm	± 0.1t
b	Pitting corrosion (2t X 2t)	0.10t	± 10 mm	± 10 mm	± 0.1t
c	Pinhole (0.5t X 0.5t)	0.10t	± 10 mm	± 10 mm	± 0.1t
d	Circumferential grooving (4t X 2t)	0.10t	± 10 mm	± 10 mm	± 0.1t
e	Axial grooving (4t X 2t)	0.10t	± 15 mm	± 15 mm	± 0.1t
f	Circumferential crack (0.03 mm X 30 mm)	0.15 t	-	± 15 mm	± 0.15t
g	Accuracy of dent size measurement, Depth, % of D Minimum dent depth detected at the confidence level of 90% (POD) Width, mm Length , mm				2% ± 25 ± 25
h	Flaw location accuracy from a ring weld seam, mm				± 100 mm
i	Flaw orientation accuracy , degree				± 5
j	Accuracy of pipe wall thickness measurement, %				± 5
k	Accuracy of pipe length measurement				± 0.1 %
l	Accuracy of bend radius measurement				0.1 D
m	Range of the bend radius measurement				(1.5.....30) OD
n	Detection of manufacturer flaws (yes/no)				Yes
o	Location of ring weld seams, taps and other pipeline construction elements (yes/no)				yes
p	Detection of metal items situated close to pipeline (yes/no)				Yes
q	External/Internal flaw discrimination(yes/no)				Yes

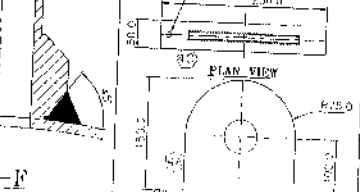
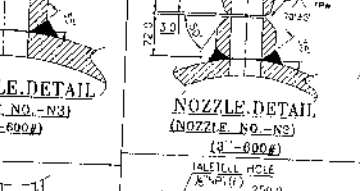
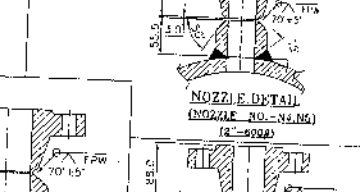
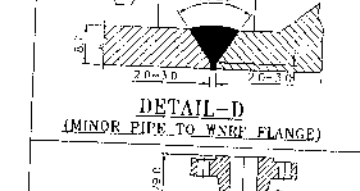
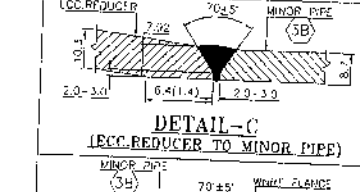
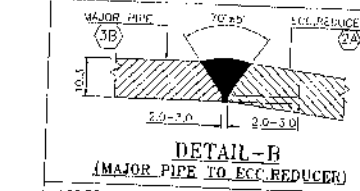
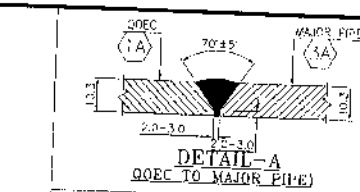
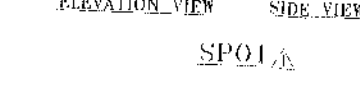
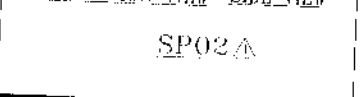
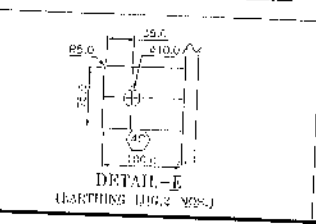
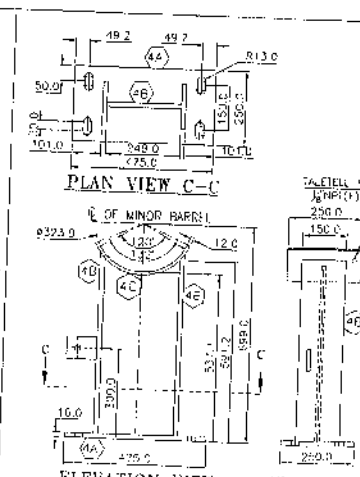
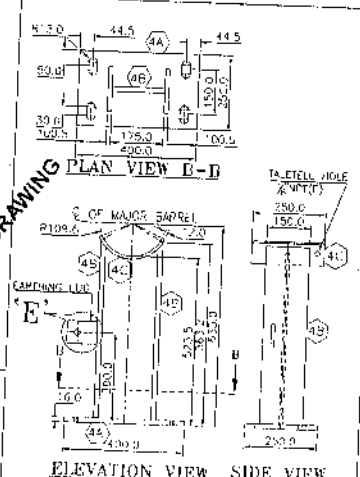
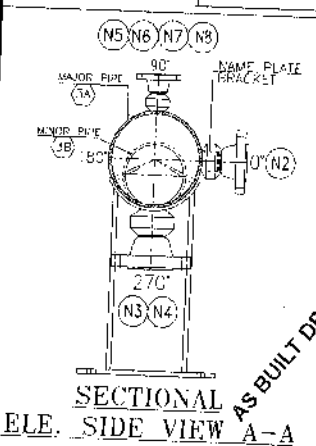
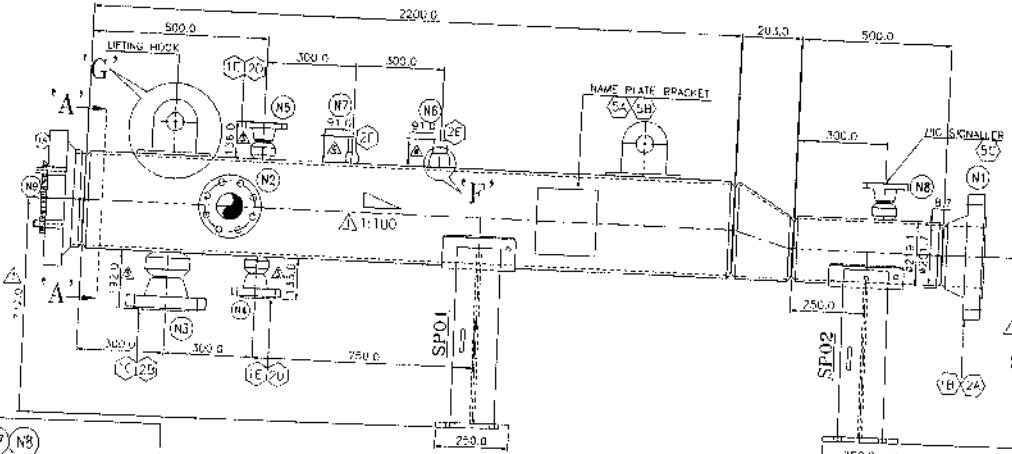
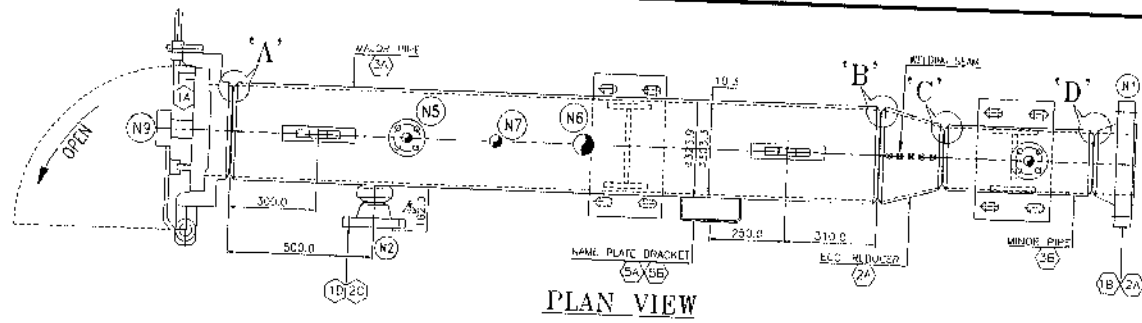
c) Scope of Work: TERMS OF REFERENCE, Clause: Annexure-I

Please refer additional drawing as per the attached Annexure-B.

d) EXTENSION OF SUBMISSION DEADLINE: 11.07.2025 (14:00 HRS.)

e) EXTENSION OF TECHNICAL RESPONSE OPENING DATE:11.07.2025 (14:30 HRS.)

ALL OTHER TERMS AND CONDITIONS SHALL REMAIN UNCHANGED IN THE ABOVE TENDER



DESIGN DATA

DESIGN & MFG CODE	PSM 031A
MAJOR SIZE (MAJOR DIAMETER)	175.3 mm
MAJOR WALL THICKNESS (MINIMUM)	12.5 mm FOR 17 & 20" FOR 8" & 10"
MINOR SIZE	100.0 mm
DESIGN TEMPERATURE (°C)	125.0
DESIGN PRESSURE (kg/cm ²)	12.5
COMPRESSION ALLOWANCE (mm)	3.0
WATER FILLING	AS PER (CODE 21)
WATER FILLING PRESSURE (kg/cm ²)	0.72
INSULATION	AS PER (CODE 21)
INSULATION PRESSURE (kg/cm ²)	10.5
TYPE OF SUPPORT	125.0 mm
INSULATION THICKNESS (mm)	12.5
TAG WEIGHT	252.45 kg
WATER FILLED WEIGHT	928.86 kg

TAG NOS.

1	CP-01-127-100-15-100-0
2	CP-01-127-100-15-100-0

DELIVERY LOCATION

NOTE

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS ON DRAWING SHALL BE AS PER ASME B31.1 AND B31.3 UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS ON DRAWING SHALL BE AS PER ASME B31.1 AND B31.3 UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS ON DRAWING SHALL BE AS PER ASME B31.1 AND B31.3 UNLESS OTHERWISE SPECIFIED.
- ALL DIMENSIONS ON DRAWING SHALL BE AS PER ASME B31.1 AND B31.3 UNLESS OTHERWISE SPECIFIED.

REFERENCE DRAWING / DOCUMENTS

ASME B31.1	1999
ASME B31.3	2002
ASME B31.9	2001
ASME B31.12	2004
ASME B31.13	2002
ASME B31.14	2002
ASME B31.15	2002
ASME B31.16	2002
ASME B31.17	2002
ASME B31.18	2002
ASME B31.19	2002
ASME B31.20	2002
ASME B31.21	2002
ASME B31.22	2002
ASME B31.23	2002
ASME B31.24	2002
ASME B31.25	2002
ASME B31.26	2002
ASME B31.27	2002
ASME B31.28	2002
ASME B31.29	2002
ASME B31.30	2002
ASME B31.31	2002
ASME B31.32	2002
ASME B31.33	2002
ASME B31.34	2002
ASME B31.35	2002
ASME B31.36	2002
ASME B31.37	2002
ASME B31.38	2002
ASME B31.39	2002
ASME B31.40	2002
ASME B31.41	2002
ASME B31.42	2002
ASME B31.43	2002
ASME B31.44	2002
ASME B31.45	2002
ASME B31.46	2002
ASME B31.47	2002
ASME B31.48	2002
ASME B31.49	2002
ASME B31.50	2002
ASME B31.51	2002
ASME B31.52	2002
ASME B31.53	2002
ASME B31.54	2002
ASME B31.55	2002
ASME B31.56	2002
ASME B31.57	2002
ASME B31.58	2002
ASME B31.59	2002
ASME B31.60	2002
ASME B31.61	2002
ASME B31.62	2002
ASME B31.63	2002
ASME B31.64	2002
ASME B31.65	2002
ASME B31.66	2002
ASME B31.67	2002
ASME B31.68	2002
ASME B31.69	2002
ASME B31.70	2002
ASME B31.71	2002
ASME B31.72	2002
ASME B31.73	2002
ASME B31.74	2002
ASME B31.75	2002
ASME B31.76	2002
ASME B31.77	2002
ASME B31.78	2002
ASME B31.79	2002
ASME B31.80	2002
ASME B31.81	2002
ASME B31.82	2002
ASME B31.83	2002
ASME B31.84	2002
ASME B31.85	2002
ASME B31.86	2002
ASME B31.87	2002
ASME B31.88	2002
ASME B31.89	2002
ASME B31.90	2002
ASME B31.91	2002
ASME B31.92	2002
ASME B31.93	2002
ASME B31.94	2002
ASME B31.95	2002
ASME B31.96	2002
ASME B31.97	2002
ASME B31.98	2002
ASME B31.99	2002
ASME B31.100	2002

NOZZLE SCHEDULE

NOZZLE NO.	SERVICE	SIZE	CLASS	TYPE	REMARK
N1	MAJOR PIPE	175.3	ASME B31.1	W	
N2	MINOR PIPE	100.0	ASME B31.1	W	
N3	NOZZLE	100.0	ASME B31.1	W	
N4	NOZZLE	100.0	ASME B31.1	W	
N5	NOZZLE	100.0	ASME B31.1	W	
N6	NOZZLE	100.0	ASME B31.1	W	
N7	NOZZLE	100.0	ASME B31.1	W	
N8	NOZZLE	100.0	ASME B31.1	W	
N9	NOZZLE	100.0	ASME B31.1	W	
N10	NOZZLE	100.0	ASME B31.1	W	
N11	NOZZLE	100.0	ASME B31.1	W	
N12	NOZZLE	100.0	ASME B31.1	W	
N13	NOZZLE	100.0	ASME B31.1	W	
N14	NOZZLE	100.0	ASME B31.1	W	
N15	NOZZLE	100.0	ASME B31.1	W	
N16	NOZZLE	100.0	ASME B31.1	W	
N17	NOZZLE	100.0	ASME B31.1	W	
N18	NOZZLE	100.0	ASME B31.1	W	
N19	NOZZLE	100.0	ASME B31.1	W	
N20	NOZZLE	100.0	ASME B31.1	W	
N21	NOZZLE	100.0	ASME B31.1	W	
N22	NOZZLE	100.0	ASME B31.1	W	
N23	NOZZLE	100.0	ASME B31.1	W	
N24	NOZZLE	100.0	ASME B31.1	W	
N25	NOZZLE	100.0	ASME B31.1	W	
N26	NOZZLE	100.0	ASME B31.1	W	
N27	NOZZLE	100.0	ASME B31.1	W	
N28	NOZZLE	100.0	ASME B31.1	W	
N29	NOZZLE	100.0	ASME B31.1	W	
N30	NOZZLE	100.0	ASME B31.1	W	
N31	NOZZLE	100.0	ASME B31.1	W	
N32	NOZZLE	100.0	ASME B31.1	W	
N33	NOZZLE	100.0	ASME B31.1	W	
N34	NOZZLE	100.0	ASME B31.1	W	
N35	NOZZLE	100.0	ASME B31.1	W	
N36	NOZZLE	100.0	ASME B31.1	W	
N37	NOZZLE	100.0	ASME B31.1	W	
N38	NOZZLE	100.0	ASME B31.1	W	
N39	NOZZLE	100.0	ASME B31.1	W	
N40	NOZZLE	100.0	ASME B31.1	W	
N41	NOZZLE	100.0	ASME B31.1	W	
N42	NOZZLE	100.0	ASME B31.1	W	
N43	NOZZLE	100.0	ASME B31.1	W	
N44	NOZZLE	100.0	ASME B31.1	W	
N45	NOZZLE	100.0	ASME B31.1	W	
N46	NOZZLE	100.0	ASME B31.1	W	
N47	NOZZLE	100.0	ASME B31.1	W	
N48	NOZZLE	100.0	ASME B31.1	W	
N49	NOZZLE	100.0	ASME B31.1	W	
N50	NOZZLE	100.0	ASME B31.1	W	
N51	NOZZLE	100.0	ASME B31.1	W	
N52	NOZZLE	100.0	ASME B31.1	W	
N53	NOZZLE	100.0	ASME B31.1	W	
N54	NOZZLE	100.0	ASME B31.1	W	
N55	NOZZLE	100.0	ASME B31.1	W	
N56	NOZZLE	100.0	ASME B31.1	W	
N57	NOZZLE	100.0	ASME B31.1	W	
N58	NOZZLE	100.0	ASME B31.1	W	
N59	NOZZLE	100.0	ASME B31.1	W	
N60	NOZZLE	100.0	ASME B31.1	W	
N61	NOZZLE	100.0	ASME B31.1	W	
N62	NOZZLE	100.0	ASME B31.1	W	
N63	NOZZLE	100.0	ASME B31.1	W	
N64	NOZZLE	100.0	ASME B31.1	W	
N65	NOZZLE	100.0	ASME B31.1	W	
N66	NOZZLE	100.0	ASME B31.1	W	
N67	NOZZLE	100.0	ASME B31.1	W	
N68	NOZZLE	100.0	ASME B31.1	W	
N69	NOZZLE	100.0	ASME B31.1	W	
N70	NOZZLE	100.0	ASME B31.1	W	
N71	NOZZLE	100.0	ASME B31.1	W	
N72	NOZZLE	100.0	ASME B31.1	W	
N73	NOZZLE	100.0	ASME B31.1	W	
N74	NOZZLE	100.0	ASME B31.1	W	
N75	NOZZLE	100.0	ASME B31.1	W	
N76	NOZZLE	100.0	ASME B31.1	W	
N77	NOZZLE	100.0	ASME B31.1	W	
N78	NOZZLE	100.0	ASME B31.1	W	
N79	NOZZLE	100.0	ASME B31.1	W	
N80	NOZZLE	100.0	ASME B31.1	W	
N81	NOZZLE	100.0	ASME B31.1	W	
N82	NOZZLE	100.0	ASME B31.1	W	
N83	NOZZLE	100.0	ASME B31.1	W	
N84	NOZZLE	100.0	ASME B31.1	W	
N85	NOZZLE	100.0	ASME B31.1	W	
N86	NOZZLE	100.0	ASME B31.1	W	
N87	NOZZLE	100.0	ASME B31.1	W	
N88	NOZZLE	100.0	ASME B31.1	W	
N89	NOZZLE	100.0	ASME B31.1	W	
N90	NOZZLE	100.0	ASME B31.1	W	
N91	NOZZLE	100.0	ASME B31.1	W	
N92	NOZZLE	100.0	ASME B31.1	W	
N93	NOZZLE	100.0	ASME B31.1	W	
N94	NOZZLE	100.0	ASME B31.1	W	
N95	NOZZLE	100.0	ASME B31.1	W	
N96	NOZZLE	100.0	ASME B31.1	W	
N97	NOZZLE	100.0	ASME B31.1	W	
N98	NOZZLE	100.0	ASME B31.1	W	
N99	NOZZLE	100.0	ASME B31.1	W	
N100	NOZZLE	100.0	ASME B31.1	W	

DWG ITEM

NO.	DESCRIPTION	SIZE	CLASS	TYPE	MATERIAL
1	MAJOR PIPE	175.3	ASME B31.1	W	SA-387-2
2	MINOR PIPE	100.0	ASME B31.1	W	SA-387-2
3	NOZZLE	100.0	ASME B31.1	W	SA-387-2
4	NOZZLE	100.0	ASME B31.1	W	SA-387-2
5	NOZZLE	100.0	ASME B31.1	W	SA-387-2
6	NOZZLE	100.0	ASME B31.1	W	SA-387-2
7	NOZZLE	100.0	ASME B31.1	W	SA-387-2
8	NOZZLE	100.0	ASME B31.1	W	SA-387-2
9	NOZZLE	100.0	ASME B31.1	W	SA-387-2
10	NOZZLE	100.0	ASME B31.1	W	SA-387-2
11	NOZZLE	100.0	ASME B31.1	W	SA-387-2
12	NOZZLE	100.0	ASME B31.1	W	SA-387-2
13	NOZZLE	100.0	ASME B31.1	W	SA-387-2
14	NOZZLE	100.0	ASME B31.1	W	SA-387-2
15	NOZZLE	100.0	ASME B31.1	W	SA-387-2
16	NOZZLE	100.0	ASME B31.1	W	SA-387-2
17	NOZZLE	100.0	ASME B31.1	W	SA-387-2
18	NOZZLE	100.0	ASME B31.1	W	SA-387-2
19	NOZZLE	100.0	ASME B31.1	W	SA-387-2
20	NOZZLE	100.0	ASME B31.1	W	SA-387-2
21	NOZZLE	100.0	ASME B31.1	W	SA-387-2
22	NOZZLE	100.0	ASME B31.1	W	SA-387-2
23	NOZZLE	100.0	ASME B31.1	W	SA-387-2
24	NOZZLE	100.0	ASME B31.1	W	SA-387-2
25	NOZZLE	100.0	ASME B31.1	W	SA-387-2
26	NOZZLE	100.0	ASME B31.1	W	SA-387-2
27	NOZZLE	100.0	ASME B31.1	W	SA-387-2
28	NOZZLE	100.0	ASME B31.1	W	SA-387-2
29	NOZZLE	100.0	ASME B31.1	W	SA-387-2
30	NOZZLE	100.0	ASME B31.1	W	SA-387-2
31	NOZZLE	100.0	ASME B31.1	W	SA-387-2
32	NOZZLE	100.0	ASME B31.1	W	SA-387-2
33	NOZZLE	100.0	ASME B31.1	W	SA-387-2
34	NOZZLE	100.0	ASME B31.1	W	SA-387-2
35	NOZZLE	100.0	ASME B31.1	W	SA-387-2
36	NOZZLE	100.0	ASME B31.1	W	SA-387-2
37	NOZZLE	100.0	ASME B31.1	W	SA-387-2
38	NOZZLE	100.0	ASME B31.1	W	SA-387-2
39	NOZZLE				

DO NOT SCALE, ASK IF IN DOUBT
 SUBMITTED AGAINST:
 PO NO.: 7910542/SGI DATE: 30.09.2020
 VKV W.O. NO.: 20-21/228/G DATE: 08.10.2020

TAG NO.: TK-100

MARK	DESCRIPTION	QTY	TYPE	SIZE	THK. (MM)
1	BARREL PIPE	1	SMLS/ERW/LSAW	14"	11.1 MIN.
2	NECK PIPE	1	SMLS/ERW	8"	8.7 MIN.
3	CON. REDUCER	1	BW	12"x8"	11.1
10	Q.O.E.C	1	BW/FORGED	12"	16
12	BASE PLATE	2	PLATE	---	12
15	FILTERING BASEKT	1	PLATE/PIPE	10"	6
14	NAME PLATE	1	PLATE	---	2

TECHNICAL DATA	
DESIGN CODE	ASME B31.4 / ASME SEC. VIII DIV.1
DESIGN PRESSURE	84 KG/CM2 (G)
HYD. TEST PRESSURE	105 KG/CM2 (G) FOR 4 HOURS MIN.
DESIGN TEMPERATURE	0 °C TO +65 °C
DESIGN FACTOR	0.72
CORROSION ALLOWANCE	3.0 MM
SERVICE	LIQUID (CRUDE OIL)
ANSI RATING	600 #
QTY	01 NO.

- MATERIAL OF CONSTRUCTION (EQ. OR HIGHER):
1. BARREL PIPE: API 5L GR.X-46, PSL-2
 2. NECK PIPE: API 5L GR.X-46, PSL-2
 3. ECC. REDUCER: MSS-SP-75 GR. WPHY-46
 4. Q.O.E.C.: FOR HUB & HEAD: ASTM A 694 F-46
 5. NOZZLE FLANGE MATERIAL(3/4",1.5",3",6"): SA / ASTM A 105
 6. SUPPORT: SA / ASTM A 36 / SA 516 GR.70
 7. NAME PLATE: AISI 304
 8. END FLANGE MATERIAL(8"): ASTM A 694 GR.F46
 9. WELDOLET MATERIAL(3/4",1.5",3",6"): SA / ASTM A 105
 10. FILETING BASKET MATERIAL: ASTM A 36/A516 GR.70/API 5L GR.B

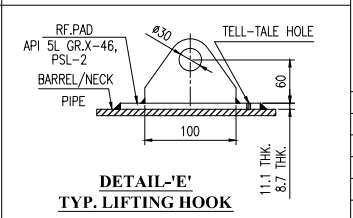
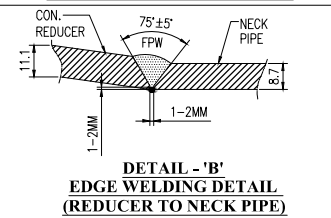
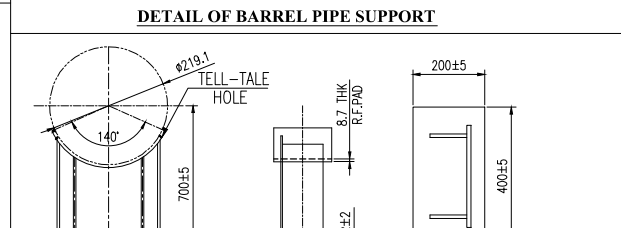
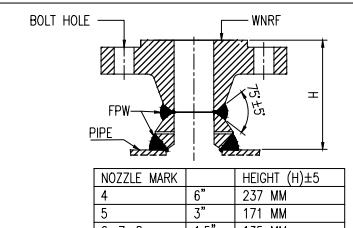
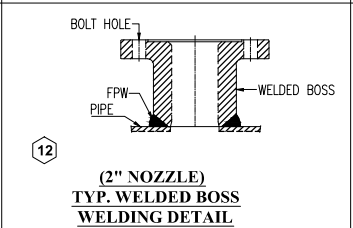
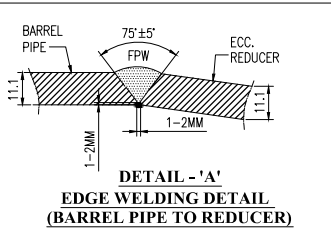
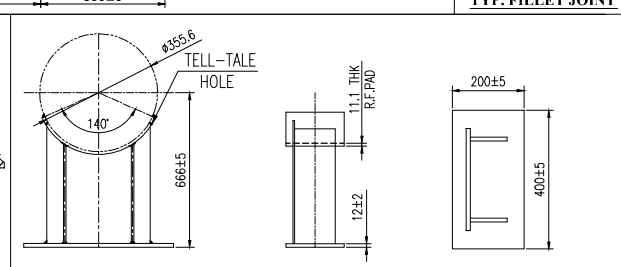
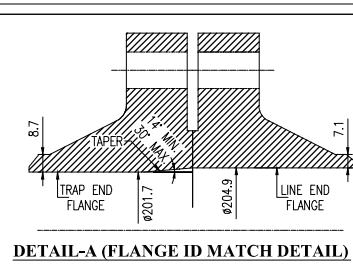
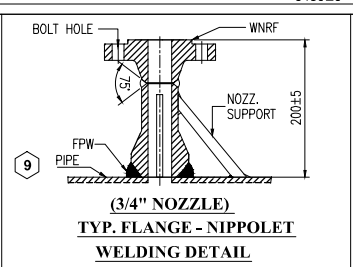
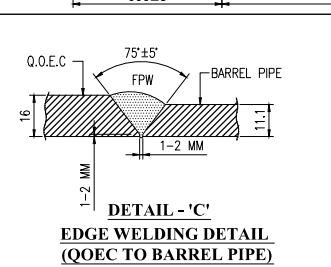
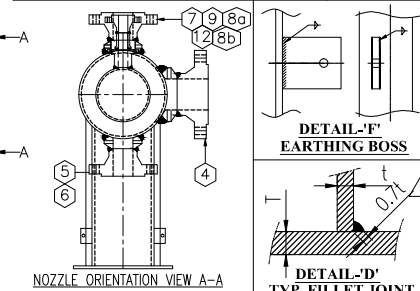
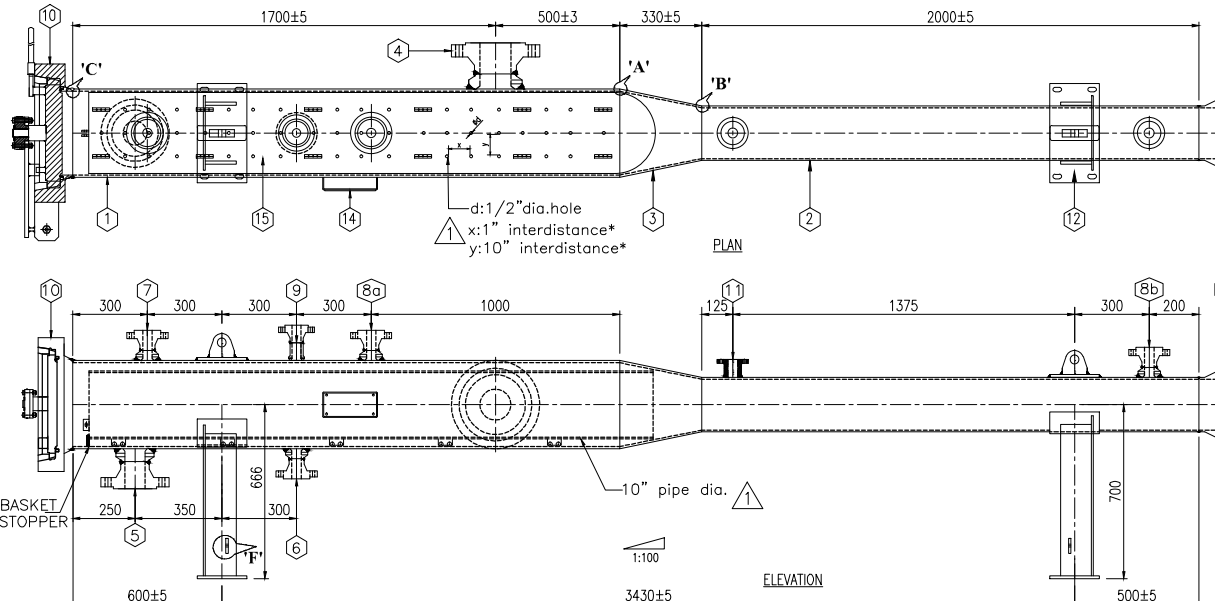
NOZZLE SCHEDULE							
MARK	DESCRIPTION	SIZE	FLANGE	CLASS	THK.MM	SCH.	REMARKS
4	KICKER CONN.	6"	WNRF	#600	21.95	XXS	---
5	DRAIN CONN.	3"	WNRF	#600	15.24	XXS	---
6	UTILITY CONN.	1.5"	WNRF	#600	10.15	XXS	---
7	VENT CONN.	1.5"	WNRF	#600	10.15	XXS	---
8a	PR.GAUGE CONN.(MA)	1.5"	WNRF	#600	10.15	XXS	---
8b	PR.GAUGE CONN.(M)	1.5"	WNRF	#600	10.15	XXS	---
9	TSV CONN.	3/4"	WNRF	#600	7.82	XXS	---
13	END FLANGE	8"	WNRF	#600	8.7	---	---
10	END CLOSURE	14"	FORGED	#600	16	---	---
11	PIG SIGNALLER	2"	WELDED BOSS	AS PER PIG SIGNAL DRAWING			

SHIPPING DETAIL	
S.T.D 20 FT CONTAINER (6.096 MTR)	✓
EMPTY WEIGHT (APPROX.)	1005 KG
FULL OF WATER WEIGHT(APPROX.)	1275 KG
VOLUME (APPROX.)	0.28 M3

- NOTES
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 2. INSPECTION HOLD POINT: REFER QAP.
 3. RADIOGRAPHY: 100% FOR ALL BUTT-WELDS.
 4. DP/MPI SHALL BE CARRIED OUT FOR PRESSURE PART FILL WELD.
 5. ALL FLANGES HOLES TO STRADDLE CENTER LINE.
 6. ALL FLANGES FACES, QOEC SHALL BE IN TRUE VERTICAL/HORIZONTAL PLANE.
 7. FLANGES AS PER ANSI B 16.5 SERRATED TO 125 AARR FINISH.
 8. NOZZLE OF 3/4", 1.5", 3", 6" & 8" NB SHALL BE PROVIDED AS PER ANSI #600.
 9. TOLERANCE IN WALL THICKNESS & OD IS AS PER MATERIAL STANDARD.
 10. MAIN PIPELINE: 8" x 7.1 MM.
 11. WELD & EDGE PREPARATION : ANSI B16.25.
 12. END FLANGE SHALL BE TAPERED TO MATCH WITH LINE ID.
 13. FILTERING BASKET SIZE AND SLOT DETAILS MAY CHANGE DURING FABRICATION.
 14. *HOLES SHALL NOT BE PUNCHED IN AREA OF WHEEL MOUNTING.

TOLERANCES	
1. AXIAL LENGTH	± 5 MM
2. BARREL LENGTH	± 5 MM
3. NOZZLE HEIGHT	± 5 MM
4. RUNOUT SHALL BE	MAX. ±2 MM FROM THE TRUE POSITION.
5. MAX. MISALIGNMENT OF QOEC SHALL BE	±1" IN ANY DIRECTION.

- PAINTING DETAILS
- SURFACE PREPARATION BY ABRASIVE/SHOT BLASTING AS PER SSPC-SP-6.
- | PAINT | TYPE | DFT |
|------------------------------------------|------|-----|
| PRIMER INORGANIC ZINC SILICATE. | PO3 | 40 |
| INTERMEDIATE COAT EPOXY HIGH BUILD PAINT | F02 | 100 |
| FINAL TWO COAT APOXY FINISH PAINT | F01 | 100 |
| TOTAL DFT MIN.(Micron) | | 240 |
- FINAL SHADE SHALL BE CANARY YELLOW.



(NOZZLE) FLANGE TO WELDOLET WELDING DETAIL	
NOZZLE MARK	HEIGHT (H)±5
4	6" 237 MM
5	3" 171 MM
6, 7, 8	1.5" 135 MM

DRN. BY	AKASH	12.11.2020
CHD. BY	ANKIT	12.11.2020
APPD. BY	KRUNAL	12.11.2020
SCALE	NTS	
DC-VKVC-RCVR-20-E007	DESIGN CALC. OF LAUNCHER	
DS-VKVC-RCVR-20-E007	DATA SHEET OF LAUNCHER	
DOC. NO.	REFERENCE DOCUMENT	

1.	2ND ISSUED FOR APPROVAL	AKASH	ANKIT	KRUNAL	CLIENT	12.11.2020
0.	1ST ISSUED FOR APPROVAL	AKASH	ANKIT	KRUNAL	CLIENT	13.10.2020
NO.	REVISIONS	BY	CHKD	VKV APRD,	APRD	DATE

CLIENT: **M/s. OIL INDIA LIMITED**

VENDOR: **VKVC LLP**
 Ahmedabad, India.

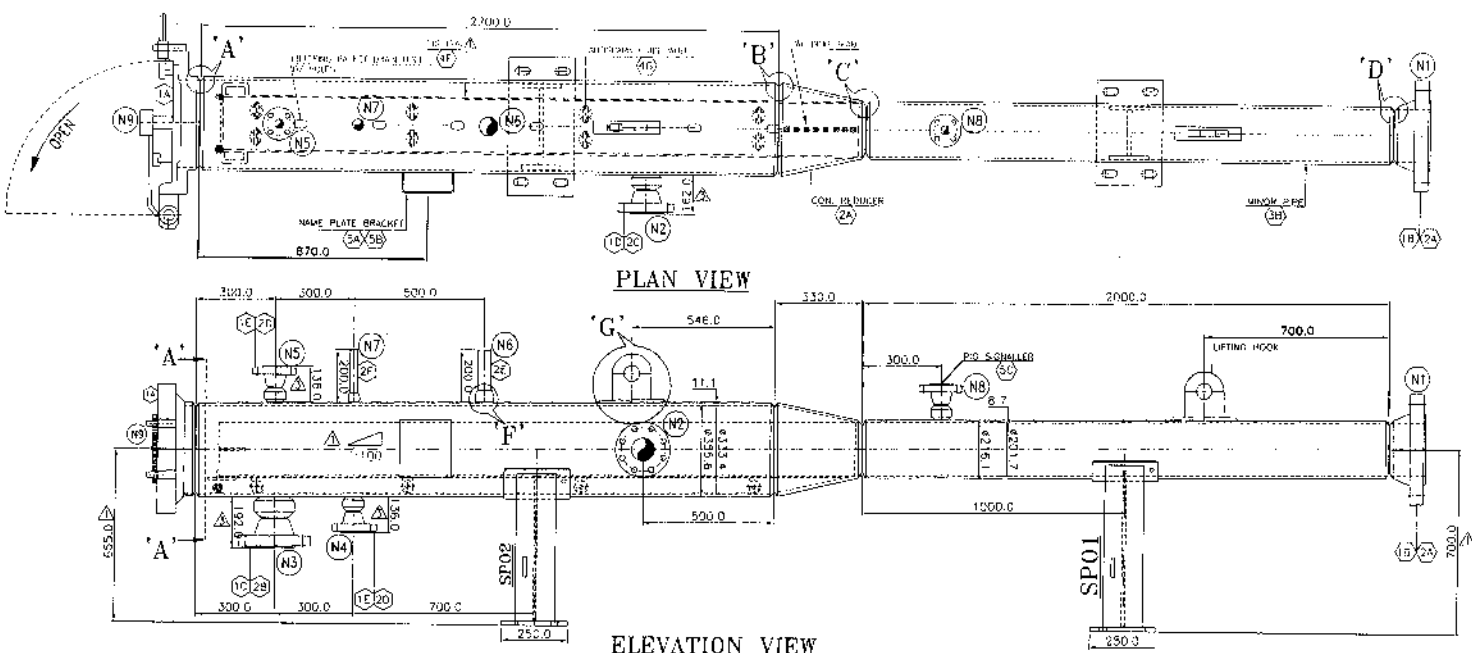
TITLE: **14" x 8" 600# SCRAPER RECEIVER**

DRG. NO.: **VKVC-RCVR-20-E007**

REV. **1**

DO NOT SCALE, ASK IF IN DOUBT

DO NOT SCALE, ASK IF IN DOUBT



DESIGN DATA	
DESIGN & APP. CODE	P.W. 100
DESIGNER	A. K. SINGH
CHECKER	M. K. SINGH
APPROVED	M. K. SINGH
DESIGN TEMP. RANGE (°C)	100 - 200
OCCASION	RE-DESIGN
COMPRESSION	NON-COMPRESSION
DESIGN FACTOR	1.000
DESIGN CODE	1000
STANDARD SPECIFICATION	IS 2063
TYPE OF SUPPORT	VERT. SUPPORT
INSPECTION BY	INSPECTION
HYDROSTATIC TESTIFICATION	100%
EMPTY WEIGHT	1000 KG. APPROX.
WATER FILLER WEIGHT	1000 KG. APPROX.

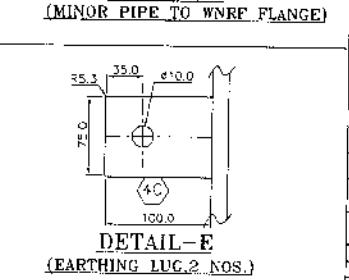
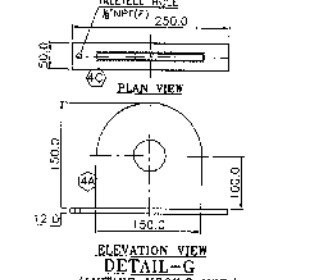
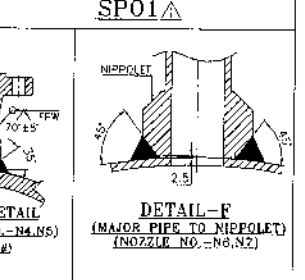
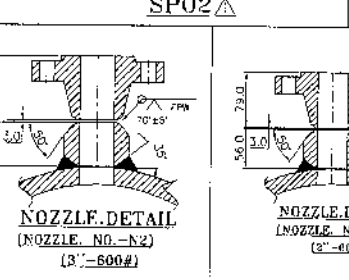
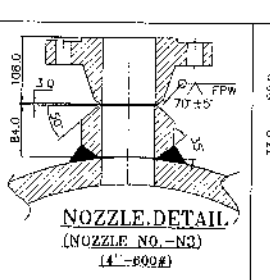
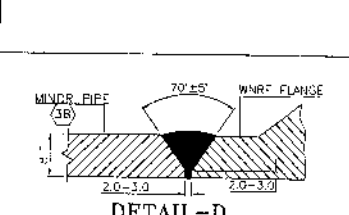
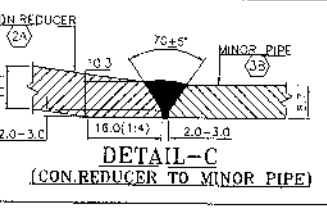
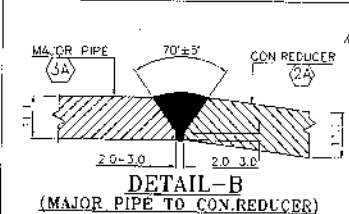
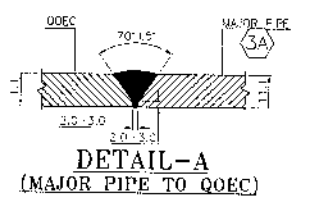
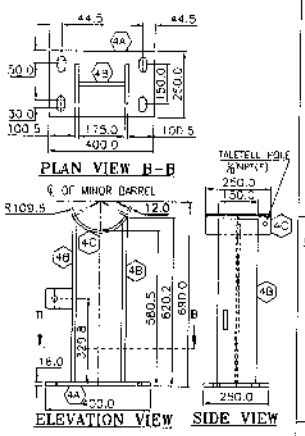
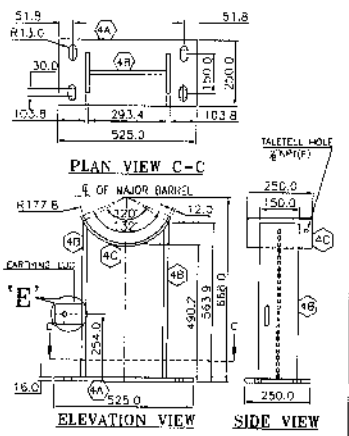
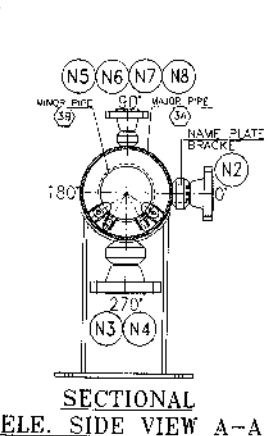
TAG NOS.	DELIVERY LOCATION
201-VR-00-101 (WITH PIG SIGNALER 201-VSR-1103)	25-1 (KARAPATI)

NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. FLANGES WELDED ON SCRAMPER PIPE SHALL BE AS PER IS 2063 AND SHALL HAVE BEVEL EDGE WITH R 25 MM.
3. THE END BRACING TANGS SHALL BE CUTTED WITH FULL BEVEL INTERNAL RADIUS BEING BARELY COMING OF A STAMPED PLATE WITH ADEQUATE NUMBER OF ROWS OF DRILL HOLES.
4. QUICK OPENING END CLOSURE SHALL BE PROVIDED WITH FULL BEVEL INTERNAL RADIUS BEING BARELY COMING OF A STAMPED PLATE WITH ADEQUATE NUMBER OF ROWS OF DRILL HOLES.
5. WALL THICKNESS OF END CLOSURE SHALL BE AS PER IS 2063 AND SHALL BE AS PER IS 2063.
6. ALL DIMENSIONS SHALL BE AS PER IS 2063 AND SHALL BE AS PER IS 2063.
7. ALL DIMENSIONS SHALL BE AS PER IS 2063 AND SHALL BE AS PER IS 2063.
8. ALL DIMENSIONS SHALL BE AS PER IS 2063 AND SHALL BE AS PER IS 2063.
9. ALL DIMENSIONS SHALL BE AS PER IS 2063 AND SHALL BE AS PER IS 2063.
10. ALL DIMENSIONS SHALL BE AS PER IS 2063 AND SHALL BE AS PER IS 2063.

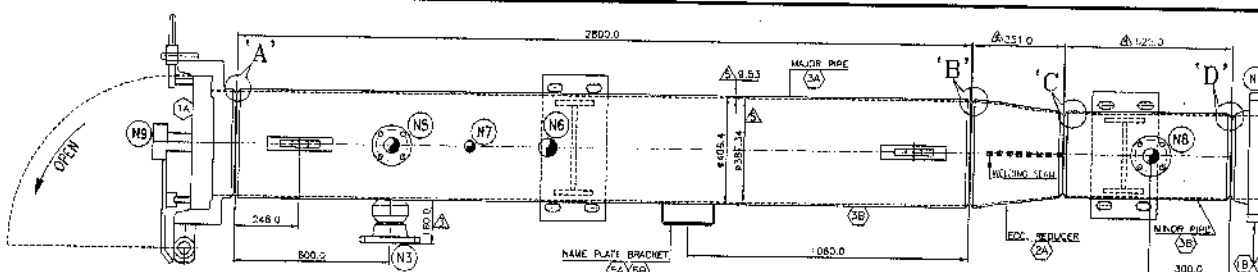
CUSTOMER REFERENCE DRAWING/DATA SHEET NO.	
1. 201-VR-00-101	25-1 (KARAPATI)
2. DATA SHEET DRAWING NO.	201-VR-00-101-01
REFERENCE DRAWING DOCUMENTS	
1. IS 2063	IS 2063-1982
2. IS 2063	IS 2063-1982
3. IS 2063	IS 2063-1982
4. IS 2063	IS 2063-1982

NOZZLE SCHEDULE							
NOZZLE	SERVICE	SIZE	THICKNESS	QTY.	CLASS	TYPE	REMARK
N1	ORINATION FLANGE	8"	8.7	1	100%	WDRF	
N2	BYPASS CONNECTION	3"	3.5	1	100%	WDRF	
N3	ORINATION CONNECTION	4"	4.5	1	100%	WDRF	
N4	ORINATION CONNECTION	2"	2.5	1	100%	WDRF	
N5	ORINATION CONNECTION	1.5"	1.7	1	100%	WDRF	
N6	ORINATION CONNECTION	3/4"	0.8	1	100%	WDRF	
N7	ORINATION CONNECTION	1.5"	1.7	1	100%	WDRF	
N8	ORINATION CONNECTION	1.5"	1.7	1	100%	WDRF	
N9	ORINATION CONNECTION	1.5"	1.7	1	100%	WDRF	
N10	ORINATION CONNECTION	1.5"	1.7	1	100%	WDRF	

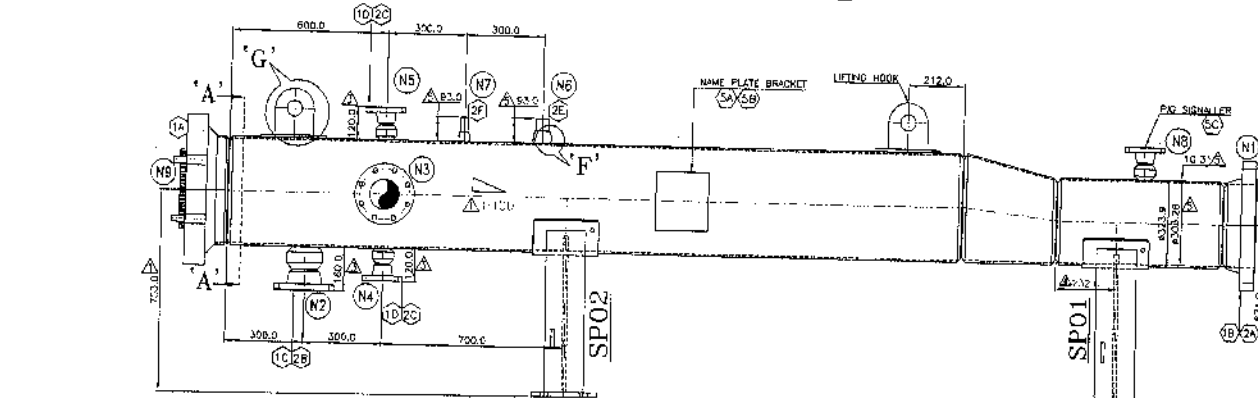


ITEM	DESCRIPTION	QTY.	CLASS	TYPE	REMARK
1	ORINATION FLANGE	1	100%	WDRF	
2	BYPASS CONNECTION	1	100%	WDRF	
3	ORINATION CONNECTION	1	100%	WDRF	
4	ORINATION CONNECTION	1	100%	WDRF	
5	ORINATION CONNECTION	1	100%	WDRF	
6	ORINATION CONNECTION	1	100%	WDRF	
7	ORINATION CONNECTION	1	100%	WDRF	
8	ORINATION CONNECTION	1	100%	WDRF	
9	ORINATION CONNECTION	1	100%	WDRF	
10	ORINATION CONNECTION	1	100%	WDRF	

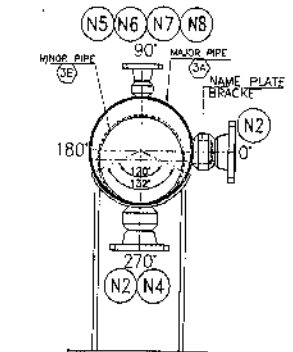
BILL OF MATERIAL	
ITEM	DESCRIPTION
1	ORINATION FLANGE
2	BYPASS CONNECTION
3	ORINATION CONNECTION
4	ORINATION CONNECTION
5	ORINATION CONNECTION
6	ORINATION CONNECTION
7	ORINATION CONNECTION
8	ORINATION CONNECTION
9	ORINATION CONNECTION
10	ORINATION CONNECTION



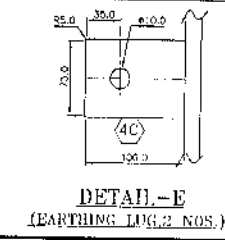
PLAN VIEW



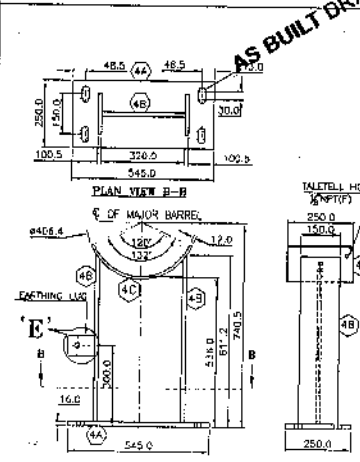
ELEVATION VIEW



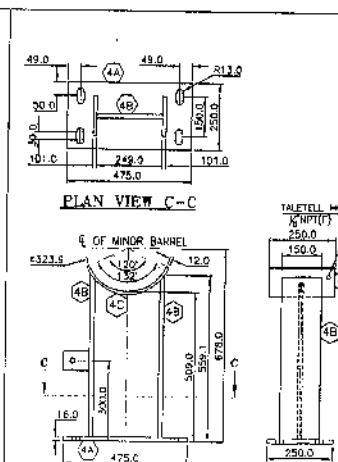
SECTIONAL E.L. SIDE VIEW A-A



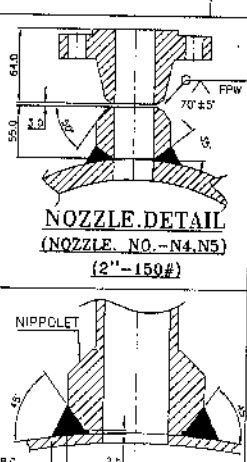
DETAIL-E (LIFTING LUG, 2 NOS.)



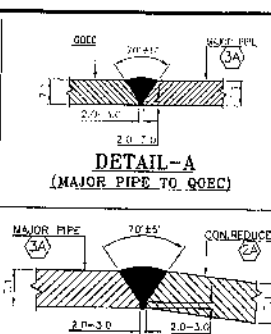
ELEVATION VIEW SIDE VIEW SPO2



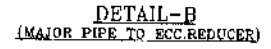
ELEVATION VIEW SIDE VIEW SPO1



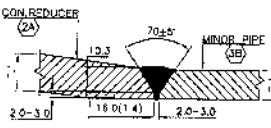
DETAIL-F (MAJOR PIPE TO NIPPOLET) (NOZZLE NO.-N6,N7)



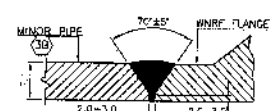
DETAIL-A (MAJOR PIPE TO QOEC)



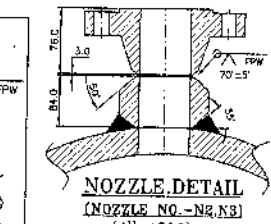
DETAIL-B (MAJOR PIPE TO ECC.REDUCER)



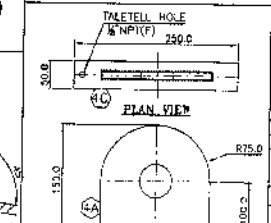
DETAIL-C (ECC.REDUCER TO MINOR PIPE)



DETAIL-D (MINOR PIPE TO WRF FLANGE)



NOZZLE DETAIL (NOZZLE NO.-N2,N3) (4"-150#)



ELEVATION VIEW DETAIL-G (LIFTING HOOK, 2 NOS.)

DESIGN DATA	
DESIGN & MFG CODE	ASME B31.4
MAJOR SIZE (MAJOR/MINOR)	18"NB x 12"NB
MAJOR WALL THICK (MAJOR/MINOR)	0.133 THK. FOR 10' x 10.31 THK FOR 12"
ORIENTATION	HORIZONTAL
DESIGN TEMPERATURE(S)	1-250 TO 65
DESIGN PRESSURE	NO. DATA
COMPONENT ALLOWANCE	MIN 13 MM
SERVICE	LIFTING (LOADING, UNL)
DESIGN FACTOR	0.72
HYDROTEST PRESSURE	NO. DATA
TYPE OF SUPPORT	BOTH SLING
WELDING BY	TRA/COLUM
LIFTING SLING (SUS.URATION)	1 MBS
WATER FILL WEIGHT	875 KG. APPROX.
WATER FILL WEIGHT	1556 KG. APPROX.

Δ TAG NOS.	DELIVERY LOCATION
000-01-001 (WITH PIG SIGNALER 000-2015-3001)	PS-6 (BONGAIGAN)

NOTES -

- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
- FLANGES WELDED ON SHIPPER FROM WILL BE AS PER ISAS 016.5 AND SHALL HAVE RAISED FACE FINISH TO THE A/B
- IF ANY OPENING END CONNECTION WILL BE TAKEN AS PER ISAS 016.4 7. ASME SEC. VIII DIV. 5. WINDUPPER IS WELDED, THE JOINT SHALL BE DESIGNED FOR 150# CLASS DRING
- ALL WELDS SHALL BE AS PER ASME B31.4 & ALL WELDS SHALL BE AT LEAST 100% MANUFACTURER'S STANDARD
- ALL INSPECTION & TEST SHALL BE CARRIED OUT AS PER CLAUSE NO. 5 OF SPECIFICATION NO. 6-11-001 / CL APPROVED GAP NO. - 00105-01-1001-001-001
- SIGNALER WILL BE SUPPLIED ALONG WITH NOZZLE BY WENDOR.

CUSTOMER REFERENCE DRAWING/DATA SHEET NO.

- PG NO. -
- DATA SHEET DRAWING NO. -

REFERENCE DRAWING/DOCUMENTS

PG TROUZY DRAWING NO. -

NAME PLATE DRAWING NO. -

STANDARD SPECIFICATION NO. / APPENDUM

- ASME B31.4
- ASME VIII DIV. 5
- ASME VIII DIV. 5
- ASME VIII DIV. 5

PAINTING

- PRIMARY COAT - ZINC RICH PRIMER - 2 COATS - 100 MICRONS
- INTERMEDIATE COAT - EPOXY POLYURETHANE - 2 COATS - 100 MICRONS
- FINAL COAT - GELATE GRAY COLOR - 100 MICRONS

TOTAL DRY 300 MICRONS.

NOZZLE	SERVICE	SIZE	SDS	QTY.	CLASS	TYPE	REMARK
N2	CONNECTION FLANGE	12"	1 NOS.	150#	WRF		
N3	MAJOR CONNECTION	4"	2 NOS.	150#	WRF		
N4	MINOR CONNECTION	2"	1 NOS.	150#	WRF		
N5	WRF	2"	1 NOS.	150#	WRF		
N6	PRESS GAUGE CONN.	1.5"	1 NOS.	150#	WRF		
N7	TRN CONNECTION	3/4"	1 NOS.	150#	WRF		
N8	PIG SIGNALER	2"	1 NOS.	150#			
N9	PIG CLOSURE	6"	1 NOS.	150#	WRF		

NOZZLE SCHEDULE

NOZZLE	SERVICE	SIZE	SDS	QTY.	CLASS	TYPE	REMARK
N2	CONNECTION FLANGE	12"	1 NOS.	150#	WRF		
N3	MAJOR CONNECTION	4"	2 NOS.	150#	WRF		
N4	MINOR CONNECTION	2"	1 NOS.	150#	WRF		
N5	WRF	2"	1 NOS.	150#	WRF		
N6	PRESS GAUGE CONN.	1.5"	1 NOS.	150#	WRF		
N7	TRN CONNECTION	3/4"	1 NOS.	150#	WRF		
N8	PIG SIGNALER	2"	1 NOS.	150#			
N9	PIG CLOSURE	6"	1 NOS.	150#	WRF		

DRIVING PREPARED BY: Control Plus

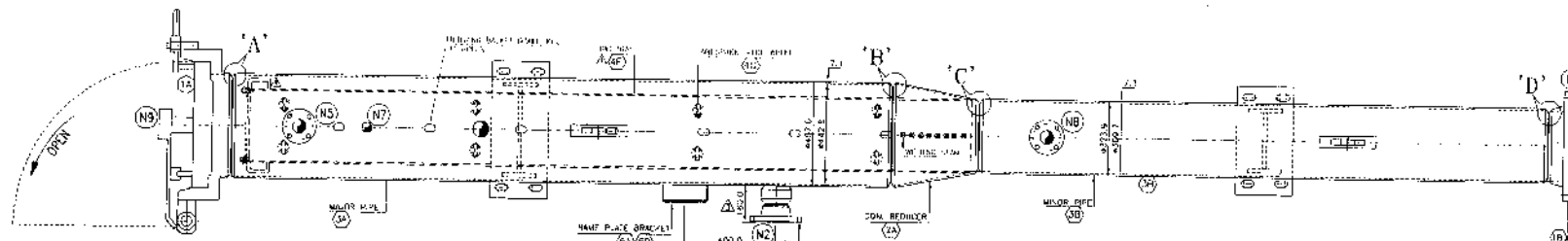
DATE: 10/10/2018

SCALE: 1:1

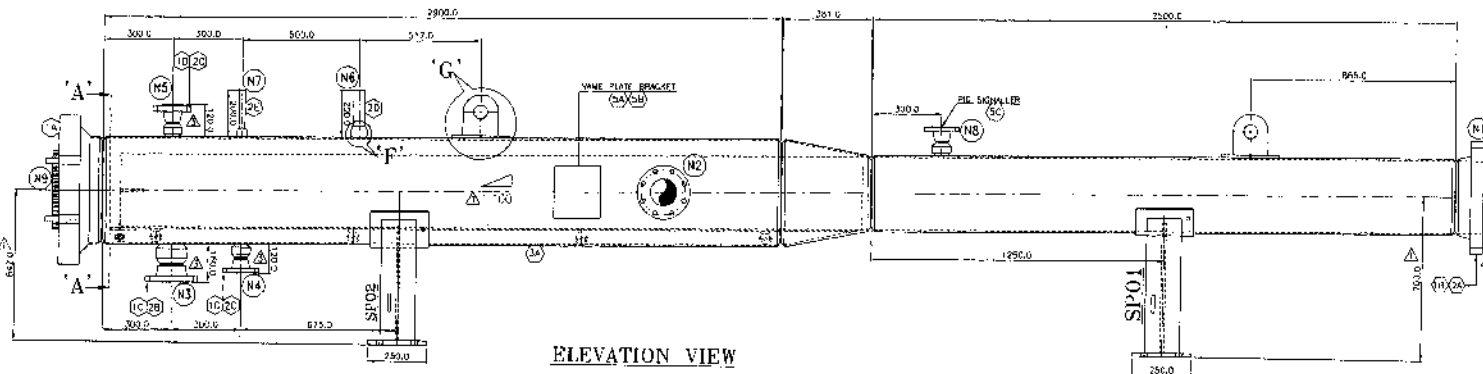
REV. DATE SUBJECT OF REVISION

REV.	DATE	SUBJECT OF REVISION	IN.	SON	ML	SHI	HL	SDI
1	10/10/2018	ISSUED FOR MANUFACTURE						

PREPARED CHECKED APPROVED



PLAN VIEW



ELEVATION VIEW

DESIGN DATA

DESIGN A. AND CODE	NAME: BTL 1
MAJOR PIPE (MATERIAL/NO.)	10" NPS 304L
MINOR PIPE (MATERIAL/NO.)	2" NPS 304L
CONNECTION	WELD
DESIGN TEMPERATURE	(200) °C
DESIGN PRESSURE	18 KG/CM ²
CONNECTION ALLOWANCE	3 mm
DESIGN FACTOR	1.00 (AS PER IS 8001)
HYDROTEST PRESSURE	23.5 KG/CM ²
TYPE OF SUPPORT	30% SLIGHT
INSPECTION BY	FIELD/UNIT
HYDROSTATIC TEST/DURATION	1 HRS.
EMPTY WEIGHT	DEL. TO APPR.
WELDED TUBES	AS PER SPEC.

DELIVERY LOCATION

204-00-00-101 (WMT PRO SIGNALLER 204-201-1-201) PS-6 (DOMESTIC)

- NOTES**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 - FLANGES WELDED ON SCRAPER SHALL BE AS PER SPEC. B165 AND SHALL HAVE DISHED FACE FINISH TO 125 μm.
 - THE TWO DRIVING TOPPS WILL BE EQUIPPED WITH FULL ROUND MINIMUM REMOVABLE FLUENT BAGS. CONSTRUCTION OF A REMOVABLE PLATE WITH AROUND NUMBER OF BAGS OF EACH NO. IS TO BE DETERMINED BY THE USER.
 - DRIVE OPERATING END CLOSURE SHALL BE DESIGNED AS PER SPEC. NO. 10. THE SELECTED WALL THICKNESS OF END CLOSURE SHALL BE DESIGN AS PER SPEC. B165 & AS PER SPEC. NO. 10. THE SCRAPER IS TO BE DESIGNED FOR 100% CLOSURE RATE.
 - ALL WELDS SHALL BE AS PER SPEC. B165 & ALL WELDS SHALL BE AS PER SPEC. B165 & AS PER SPEC. B165.
 - ALL INSPECTION AND TEST SHALL BE CARRIED OUT AS PER CLAUSE NO. 5 OF SPECIFICATION NO. B-11-111. ALL WELDS SHALL BE TESTED AS PER SPEC. B165 & AS PER SPEC. B165.
 - SIGNALLER SHALL BE SUPPLIED ALONG WITH NOZZLE BY VENDOR.
 - THE SCRAPER SHALL BE SUPPLIED FOR ACCOMMODATING LATER ONLINE RECEPTION TUBS (HOMES).

CUSTOMER REFERENCE DRAWING/DATA SHEET NO.

1. DATA SHEET DRAWING NO. - 204-00-00-101-001
2. DATA SHEET DRAWING NO. - 204-00-00-101-002

REFERENCE DRAWING/DOCUMENTS

1. IS-78-001 REV. 4	STANDARD SPECIFICATION FOR SCRAPER
2. IS-78-001 REV. 4	SPECIFICATION FOR DESIGN AND SYSTEM REQUIREMENTS FOR SCRAPERS
3. IS-78-001 REV. 4	SPECIFICATION FOR SCRAPER DESIGN REQUIREMENTS FOR SCRAPERS
4. 204-00-00-101-001 REV. 1	ADDENDUM TO STANDARD SPECIFICATIONS FOR SCRAPER

STANDARD SPECIFICATION NO. / ADDENDUM

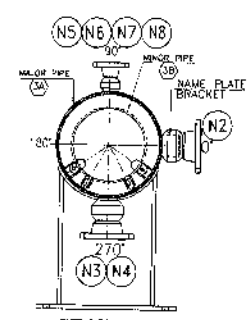
1. IS-78-001 REV. 4	STANDARD SPECIFICATION FOR SCRAPER
2. IS-78-001 REV. 4	SPECIFICATION FOR DESIGN AND SYSTEM REQUIREMENTS FOR SCRAPERS
3. IS-78-001 REV. 4	SPECIFICATION FOR SCRAPER DESIGN REQUIREMENTS FOR SCRAPERS
4. 204-00-00-101-001 REV. 1	ADDENDUM TO STANDARD SPECIFICATIONS FOR SCRAPER

NOZZLE SCHEDULE

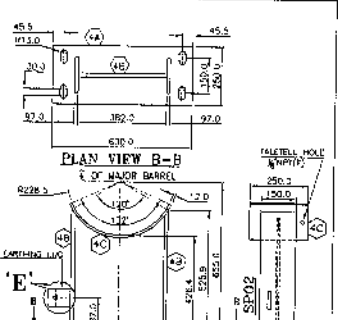
NOZZLE	SERVICE	SIZE	SCH.	QTY.	CLASS	TYPE	REMARKS
N1	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N2	W.M.P. CONNECTION	4"	XXX	1 NOS.	150#	W.M.P.	
N3	W.M.P. CONNECTION	4"	XXX	1 NOS.	150#	W.M.P.	
N4	W.M.P. CONNECTION	2"	XXX	1 NOS.	150#	W.M.P.	
N5	W.M.P. CONNECTION	2"	XXX	1 NOS.	150#	W.M.P.	
N6	PRESS. GAUGE COUPLER	1.25"	XXX	1 NOS.	150#	W.M.P.	
N7	W.M.P. CONNECTION	3/4"	XXX	1 NOS.	150#	W.M.P.	
N8	PIC SIGNALLER	2"	---	1 NOS.	150#	W.M.P.	
N9	DND CLOSURE	18"	---	1 NOS.	150#	W.M.P.	

NOZZLE SCHEDULE (CONT.)

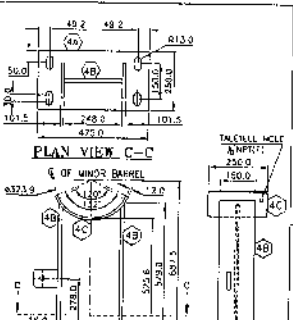
N10	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N11	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N12	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N13	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N14	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N15	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N16	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N17	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N18	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N19	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	
N20	CONNECTION FLANGE	12"	71 F.W.	1 NOS.	150#	W.M.P.	



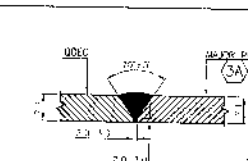
SECTIONAL ELEV. SIDE VIEW A-A



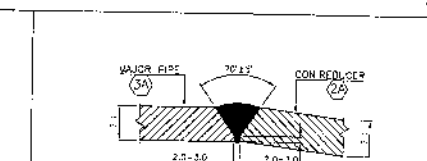
PLAN VIEW B-B
ELEVATION VIEW



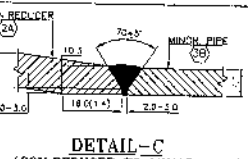
PLAN VIEW C-C
ELEVATION VIEW



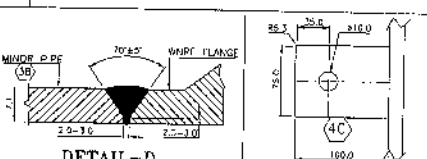
DETAIL-A (MAJOR PIPE TO QDEC)



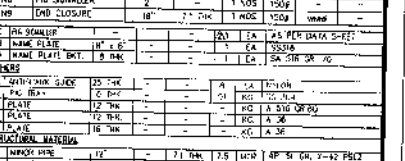
DETAIL-B (MAJOR PIPE TO CON.REDUCER)



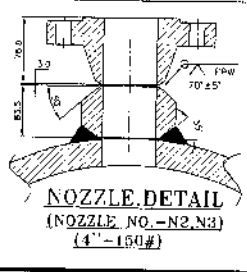
DETAIL-C (CON.REDUCER TO MINOR PIPE)



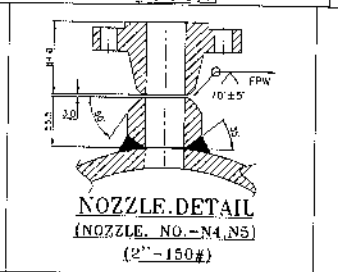
DETAIL-D (MINOR PIPE TO W.M.P. FLANGE)



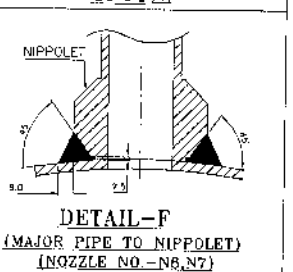
DETAIL-E (EARTHING LUG, 2 NOS.)



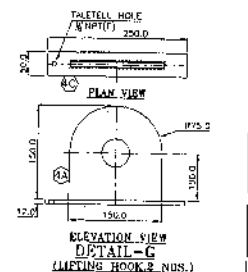
NOZZLE DETAIL (NOZZLE NO.-N2,N3) (1"-150#)



NOZZLE DETAIL (NOZZLE NO.-N4,N5) (2"-150#)



DETAIL-F (MAJOR PIPE TO NIPPOLET) (NOZZLE NO.-N6,N7)



DETAIL-G (METING HOOK, 2 NOS.)

PAINTING

- 1) PRIMARY COAT - ZINC RICH PRIMER - 2 COATS - 100 MICRONS
- 2) INTERMEDIATE COAT - EPOXY POLYAMIDE - 2 COATS - 100 MICRONS
- 3) FINAL COAT - AGAIE GRAY COLOR - 100 MICRONS

TOTAL DFT: 300 MICRONS.

BILL OF MATERIAL

ONO. ITEM	SIZE	CLASS	QTY	UNIT	MATERIAL
1	12"	71 F.W.	1	NOS.	CONNECTION FLANGE
2	4"	XXX	1	NOS.	W.M.P. CONNECTION
3	4"	XXX	1	NOS.	W.M.P. CONNECTION
4	2"	XXX	1	NOS.	W.M.P. CONNECTION
5	2"	XXX	1	NOS.	W.M.P. CONNECTION
6	1.25"	XXX	1	NOS.	PRESS. GAUGE COUPLER
7	3/4"	XXX	1	NOS.	W.M.P. CONNECTION
8	2"	---	1	NOS.	PIC SIGNALLER
9	18"	---	1	NOS.	DND CLOSURE

CONTROL PLUS
Oil and Gas Solutions Provider

DRAWING PREPARED BY: [Signature]

REVISIONS:

REV.	DATE	SUBJECT OF REVISION
1	10/05/14	ISSUED AS PER COMMENTS
2	15/05/14	ISSUED AS PER COMMENTS
3	18/05/14	ISSUED AS PER COMMENTS
4	22/11/13	ISSUED AS PER COMMENTS

CONTROL PLUS OIL AND GAS SOLUTIONS SVT. LTD.

ENGINEERS INDIA LIMITED

GENERAL ARRANGEMENT DRAWING

SCALE: 1:10

SHEET: 1 OF 2