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 detect 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

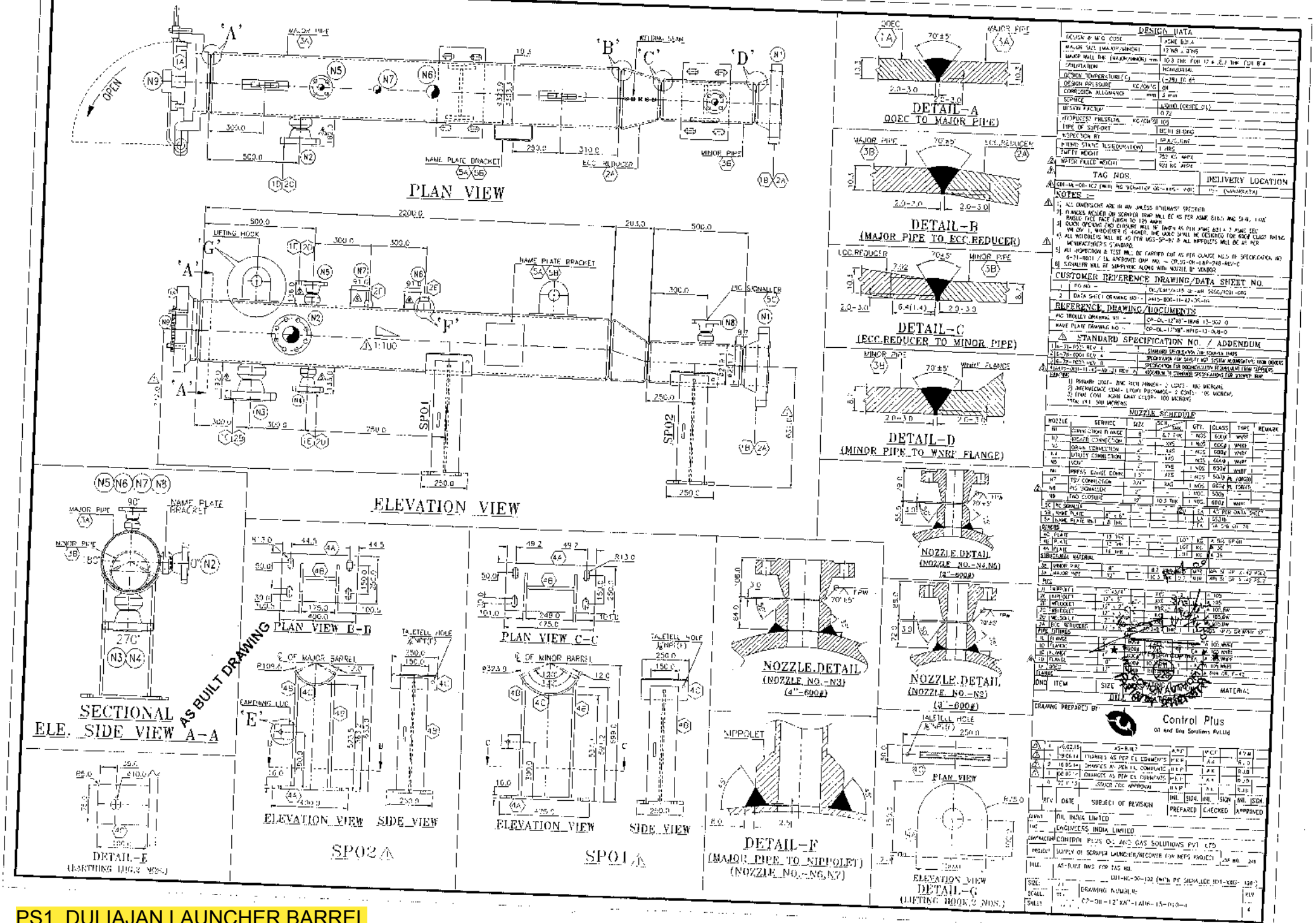
Please refer additional drawing as per the attached Annexure-B.

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

ANNEXURE-B

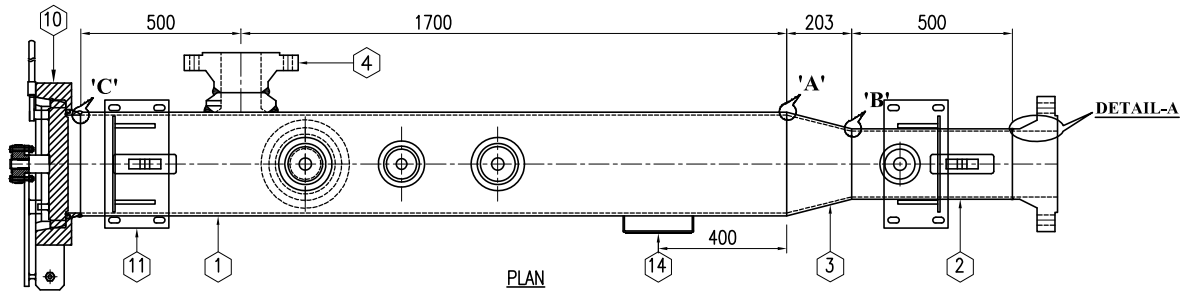


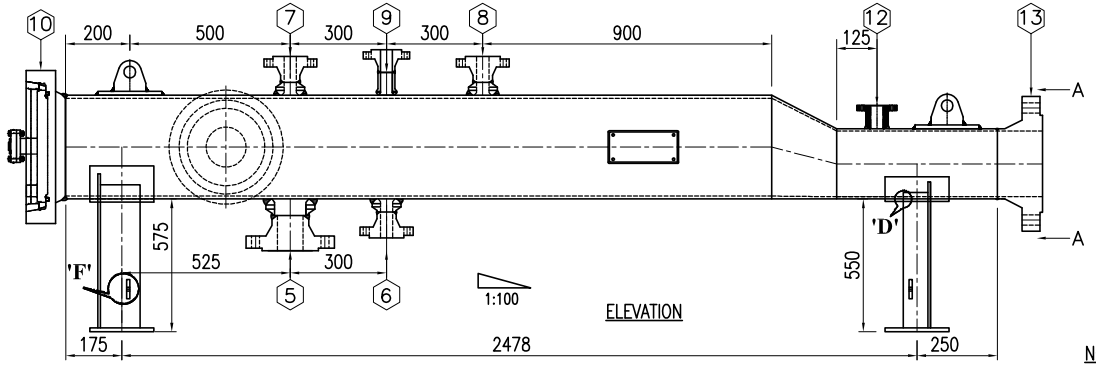
PS1, DULIAJAN LAUNCHER BARREL

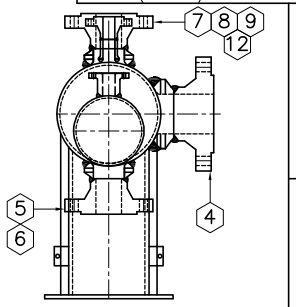
DO NOT SCALE, ASK IF IN DOUBT

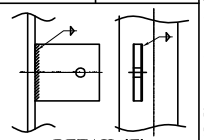
SUBMITTED AGAINST:
PO NO.: 7910542/SGI DATE: 30.09.2020
VKV W.O. NO.: 20-21/228/G DATE: 08.10.2020

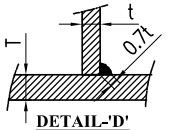
TAG NO.: TK-200






NOZZLE ORIENTATION VIEW A-A


DETAIL-'F'
EARTHING BOSS


DETAIL-'D'
TYP. FILLET JOINT

BILL OF MATERIAL

MARK	DESCRIPTION	QTY	TYPE	SIZE	THK. (MM)
1	BARREL PIPE	1	SMLS/ERW/LSAW	12"	10.3 MIN.
2	NECK PIPE	1	SMLS/ERW	8"	8.7 MIN.
3	ECC. REDUCER	1	BW	12"x8"	10.3
10	Q.O.E.C	1	BW/FORGED	12"	15
11	BASE PLATE	2	PLATE	---	12
14	NAME PLATE	1	PLATE	---	2

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

SHIPPING DETAIL

S.T.D 20 FT CONTAINER (6.096 MTR)	
EMPTY WEIGHT (APPROX.)	782 KG
FULL OF WATER WEIGHT(APPROX.)	972 KG
VOLUME (APPROX.)	0.19 M3

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.

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	---
8	PR. GAUGE CONN.	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	12"	FORGED	#600	15	---	---
12	PIG SIGNALLER	2"	WELDED BOSS	AS PER PIG SIGNAL DRAWING			

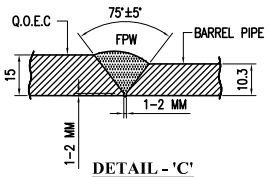
NOTES
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. INSPECTION HOLD POINT: REFER QAP.
3. RADIOGRAPHY: 100% FOR ALL BUTT-WELDS.
4. DP/MPI SHALL BE CARRIED OUT FOR PRESSURE PART FILLET WELD.
5. ALL FLANGES HOLES TO STRADDLE CENTER LINE.
6. ALL FLANGES FACES, QOEC SHALL BE IN TRUE VERTICAL/HORIZONTAL PLANE.
7. FLANGES AS PER ANSI B 16.5 SERRATED TO 125 AARH 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 TAPERD TO MATCH WITH LINE ID.

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.

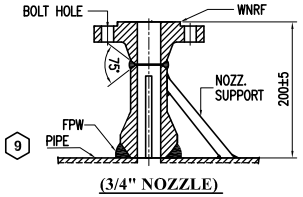
PAINTING DETAILS
SURFACE PREPARATION BY ABRASIVE/SHOT BLASTING AS PER SSPC-SP-6.

PAINT	TYPE	DFT
PRIMER INORGANIC ZINC SILICATE.	P03	40
INTERMEDIATE COAT EPOXY HIGH BUILD PAINT	F02	100
FINAL TWO COAT APOXY FINISH PAINT	F01	100
TOTAL DFT MIN.(Micron)		240

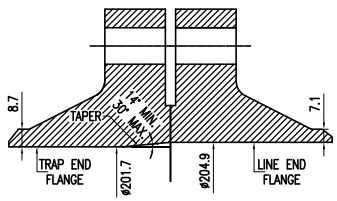
FINAL SHADE SHALL BE CANARY YELLOW.



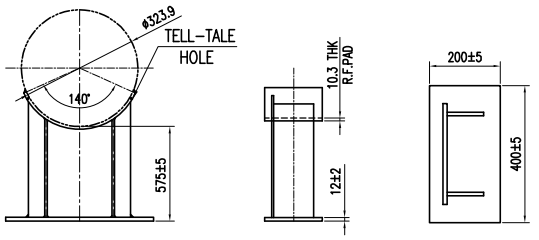
DETAIL - 'C'
EDGE WELDING DETAIL
(QOEC TO BARREL PIPE)



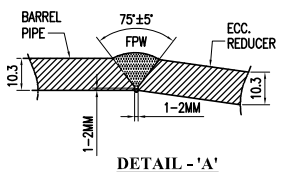
(3/4" NOZZLE)
TYP. FLANGE - NIPPOLET
WELDING DETAIL



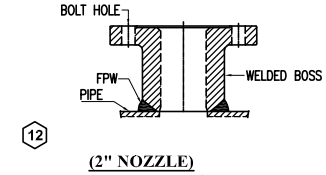
DETAIL-A (FLANGE ID MATCH DETAIL)



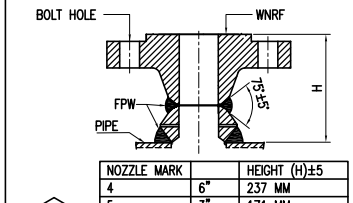
DETAIL OF BARREL PIPE SUPPORT



DETAIL - 'A'
EDGE WELDING DETAIL
(BARREL PIPE TO REDUCER)

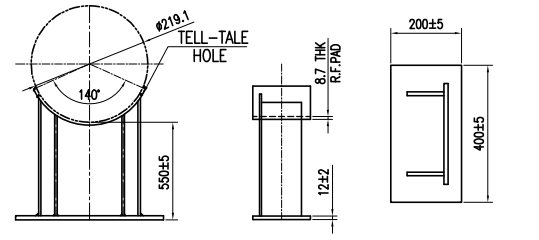


(2" NOZZLE)
TYP. WELDED BOSS
WELDING DETAIL

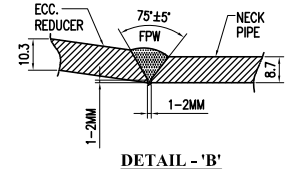


NOZZLE MARK		HEIGHT (H)±5
4	6"	237 MM
5	3"	171 MM
6, 7, 8	1.5"	135 MM

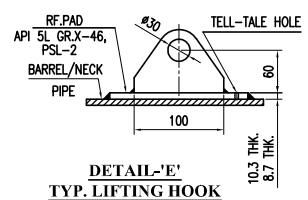
(NOZZLE)
FLANGE TO WELDOLET
WELDING DETAIL



DETAIL OF NECK PIPE SUPPORT



DETAIL - 'B'
EDGE WELDING DETAIL
(REDUCER TO NECK PIPE)



DETAIL-'E'
TYP. LIFTING HOOK

RS-19, KATHALGURI LAUNCHING BARREL

NO.	REVISIONS	BY	CHKD	VKV APRD.	APRD	DATE
0.	1ST ISSUED FOR APPROVAL	AKASH	ANKIT.R	KRUNAL	CLIENT	13.10.2020

CLIENT: M/s. OIL INDIA LIMITED

VENDOR: VKVC LLP
Ahmedabad, India.

TITLE: 12" x 8" 600# SCRAPER LAUNCHER

DRN. BY	AKASH	13.10.2020
CHD. BY	ANKIT.R	13.10.2020
APPD. BY	KRUNAL	13.10.2020
SCALE	NTS	

DC-VKVC-LNCR-20-E015	DESIGN CALC. OF LAUNCHER
DS-VKVC-LNCR-20-E015	DATA SHEET OF LAUNCHER
DOC. NO.	REFERENCE DOCUMENT

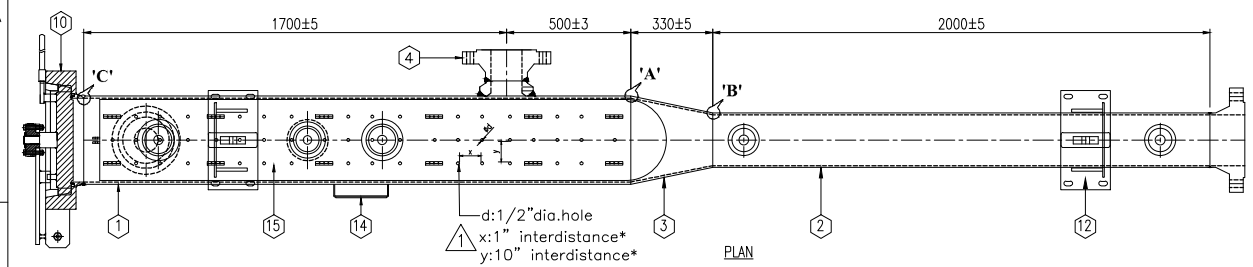
DRG. NO.: VKVC-LNCR-20-E015
REV. 0

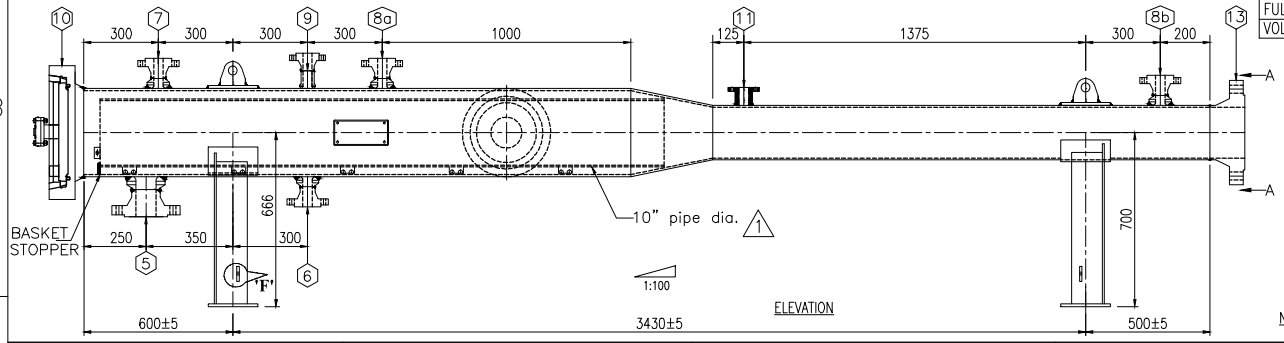
DO NOT SCALE, ASK IF IN DOUBT

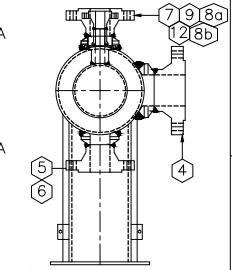
DO NOT SCALE, ASK IF IN DOUBT

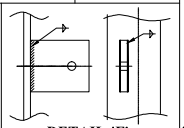
SUBMITTED AGAINST:
PO NO.: 7910542/SGI DATE: 30.09.2020
VKV W.O. NO.: 20-21/228/G DATE: 08.10.2020

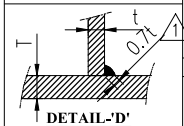
TAG NO.: TK-100











BILL OF MATERIAL

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

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

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

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.

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.(MI)	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			

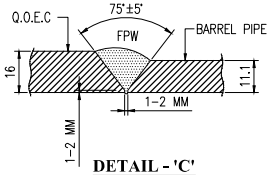
NOTES
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. INSPECTION HOLD POINT: REFER QAP.
3. RADIOGRAPHY: 100% FOR ALL BUTT-WELDS.
4. DP/MPI SHALL BE CARRIED OUT FOR PRESSURE PART FILLET WELD.
5. ALL FLANGES HOLES TO STRADDLE CENTER LINE.
6. ALL FLANGES FACES, QOEC SHALL BE IN TRUE VERTICAL/HORIZONTAL PLANE.
7. FLANGES AS PER ANSI B 16.5 SERRATED TO 125 AARH 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 TAPERD 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.

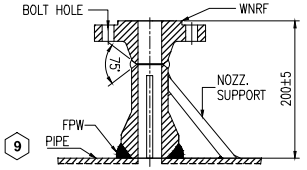
PAINTING DETAILS
SURFACE PREPARATION BY ABRASIVE/SHOT BLASTING AS PER SSPC-SP-6.

PAINT	TYPE	DFT
PRIMER INORGANIC ZINC SILICATE.	P03	40
INTERMEDIATE COAT EPOXY HIGH BUILD PAINT	F02	100
FINAL TWO COAT APOXY FINISH PAINT	F01	100
TOTAL DFT MIN.(Micron)		240

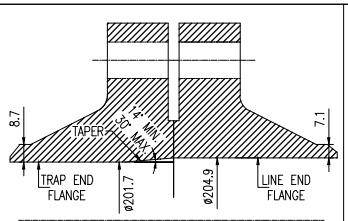
FINAL SHADE SHALL BE CANARY YELLOW.



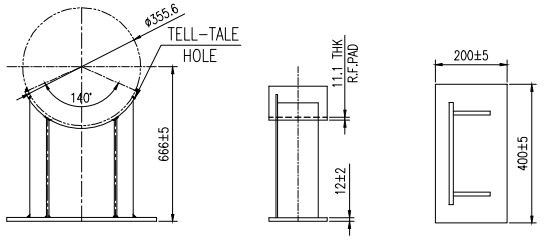
DETAIL - 'C'
EDGE WELDING DETAIL
(QOEC TO BARREL PIPE)



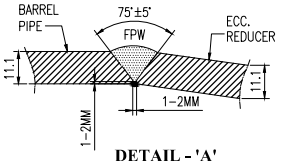
(3/4" NOZZLE)
TYP. FLANGE - NIPPOLET
WELDING DETAIL



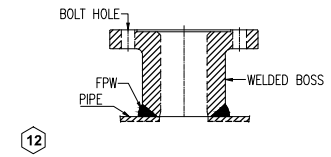
DETAIL-A (FLANGE ID MATCH DETAIL)



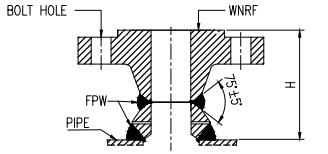
DETAIL OF BARREL PIPE SUPPORT



DETAIL - 'A'
EDGE WELDING DETAIL
(BARREL PIPE TO REDUCER)



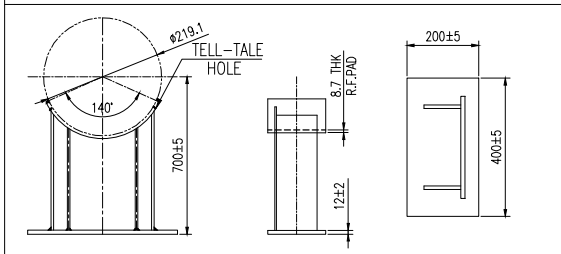
(2" NOZZLE)
TYP. WELDED BOSS
WELDING DETAIL



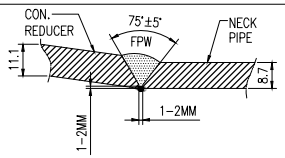
NOZZLE MARK		HEIGHT (H)±5
4	6"	237 MM
5	3"	171 MM
6, 7, 8	1.5"	135 MM

4 5 8a
6 7 8b

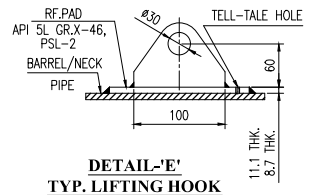
(NOZZLE)
FLANGE TO WELDOLET
WELDING DETAIL



DETAIL OF NECK PIPE SUPPORT



DETAIL - 'B'
EDGE WELDING DETAIL
(REDUCER TO NECK PIPE)



DETAIL-'E'
TYP. LIFTING HOOK

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

RS-19 KATHALGURI
RECEIVING BARREL

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

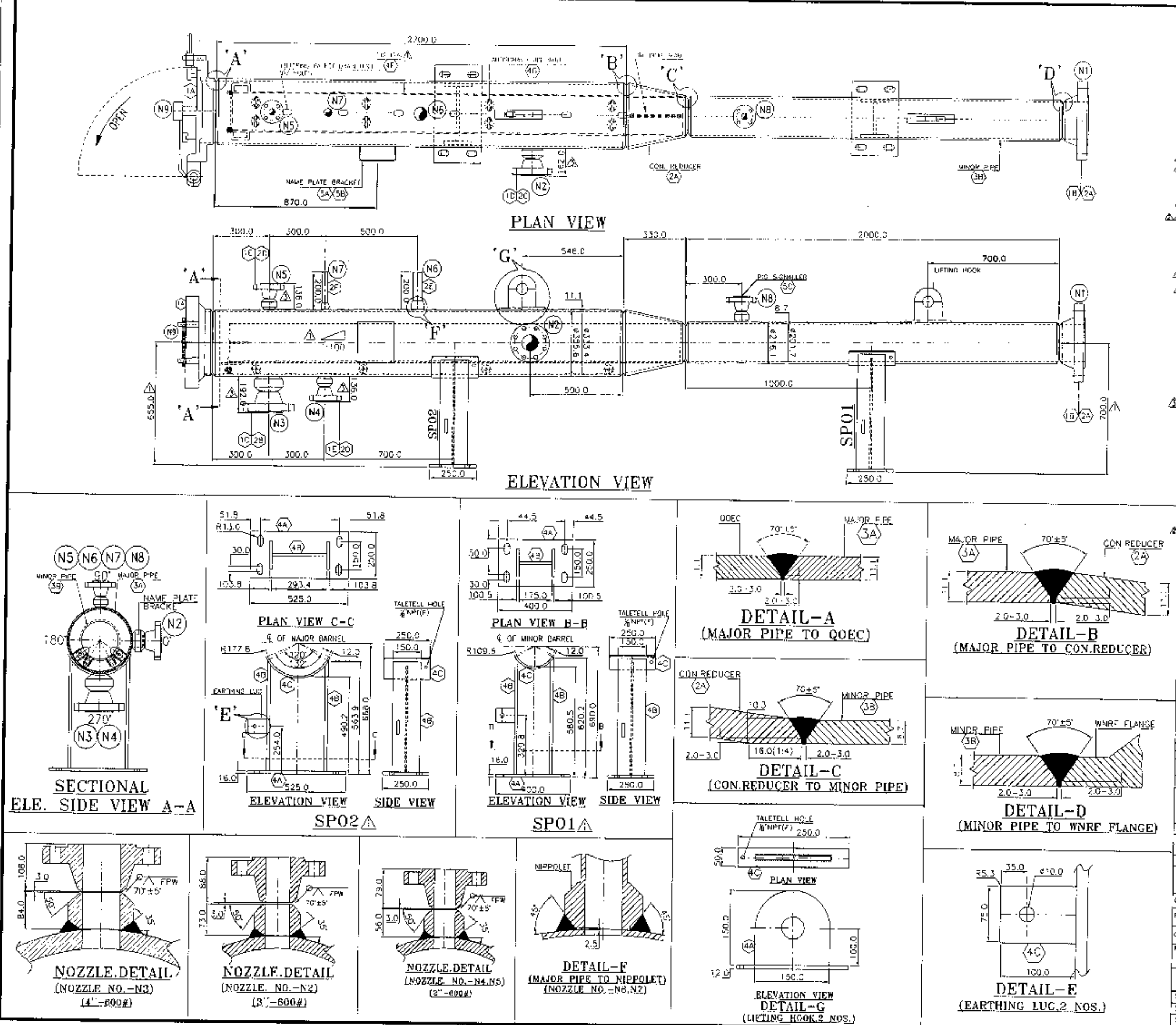
CLIENT:
M/s. OIL INDIA LIMITED

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



DESIGN DATA

DESIGN & MFG CODE	ASME B31.4
MAJOR SIZE (MAJOR/MINOR)	14" NB X 8" NB
MAJOR WALL THK (MAJOR/MINOR) mm	11.1 THK 14" / 8.7 THK FOR 8"
ORIENTATION	HORIZONTAL
DESIGN TEMPERATURE(°C)	(-29) TO 65
DESIGN PRESSURE Kg/cm²g	81
CORROSION ALLOWANCE mm	3 mm
SERVICE	LIQUID (CRUDE OIL)
DESIGN FACTOR	0.72
HYDROTEST PRESSURE Kg/cm²g	105
TYPE OF SUPPORT	BOTH SLIDING
INSPECTION BY	TPIA/CUCN
HYDRO STATIC TEST(DURATION)	4 HRS.
EMPTY WEIGHT	1005 KG APPX.
WATER FILLED WEIGHT	1262 KG APPX.

TAG NOS.	DELIVERY LOCATION
201-VR-00-101 (WITH PIG SIGNALLER 201-KM-1701)	PS-1 (NAHARKATIA)

NOZZLE SCHEDULE

NOZZLE	SERVICE	SIZE	SCH./THK	QTY.	CLASS	TYPE	REMARK
N1	CONNECTION FLANGE	8"	8.7 THK	1 NOS.	600#	WNRF	-
N2	BYPASS CONNECTION	3"	XXS	1 NOS.	600#	WNRF	-
N3	DRAIN CONNECTION	4"	XXS	1 NOS.	600#	WNRF	-
N4	UTILITY CONNECTION	2"	XXS	1 NOS.	600#	WNRF	-
N5	VENT	2"	XXS	1 NOS.	600#	WNRF	-
N6	PRESS. GAUGE CONN.	1.5"	XXS	1 NOS.	600#	PL. FORGED	-
N7	TSV CONNECTION	3/4"	XXS	1 NOS.	600#	PL. FORGED	-
N8	PIG SIGNALLER	2"	-	1 NOS.	600#	-	-
N9	END CLOSURE	14"	11.1 THK	1 NOS.	600#	BW	-

BILL OF MATERIAL

IDNO	ITEM	SIZE	CLASS	RATING/ SCH.	QTY	UNIT	MATERIAL
5C	PIG SIGNALLER	-	-	-	1	EA	AS PER DATA SHEET
5B	NAME PLATE	8" x 6"	-	-	1	EA	SS316
5A	NAME PLATE BKT.	8 THK	-	-	1	EA	SA 516 GR. 70
OTHERS							
4C	ARRESTER GUIDE	25 THK	-		3	EA	NYLON
4F	PIG TRAY	5 THK	-		20	KG	SS 304
4C	PLATE	12 THK	-	-	LOT	KG	A 515 GR.60
4B	PLATE	12 THK.	-	-	LOT	KG	A 36
4A	PLATE	16 THK.	-	-	LOT	KG	A 36
STRUCTURAL MATERIAL							
3B	MINOR PIPE	8"	-	8.7 THK	2.0	MTR	API 5L GR X-42 PSL2
3A	MAJOR PIPE	14"	-	11.1 THK	2.2	MTR	API 5L GR X-42 PSL2
PIPE							
2F	NIPPOLET	14"x3/4"	-	XXS	1		A 105
2E	NIPPOLET	14"x1.5"	-	XXS	1		A 105
2D	WELDOLET	14" x 2"	-	XXS	2	EA	A 105,BW
2C	WELDOLET	14" x 3"	-	XXS	1	EA	A 105,BW
2B	WELDOLET	14" x 4"	-	XXS	1	EA	A 105,BW
2A	CON. REDUCERS	14"x8"	-	11.1/8.7 THK	1	EA	MSS-SP75 GR WPHY 42
PIPE FITTINGS							
1E	FLANGE	2"	600#	XXS	2	EA	A 105,WNRF
1D	FLANGE	3"	600#	XXS	1	EA	A 105,WNRF
1C	FLANGE	4"	600#	XXS	1	EA	A 105,WNRF
1B	FLANGE	8"	600#	8.7 THK	1	EA	A 105,WNRF
1A	QOEC	14"	600#	11.1 THK	1	EA	A 694 GR. F-42
FLANGE							

DRAWING PREPARED BY: Control Plus Oil And Gas Solutions Pvt.Ltd

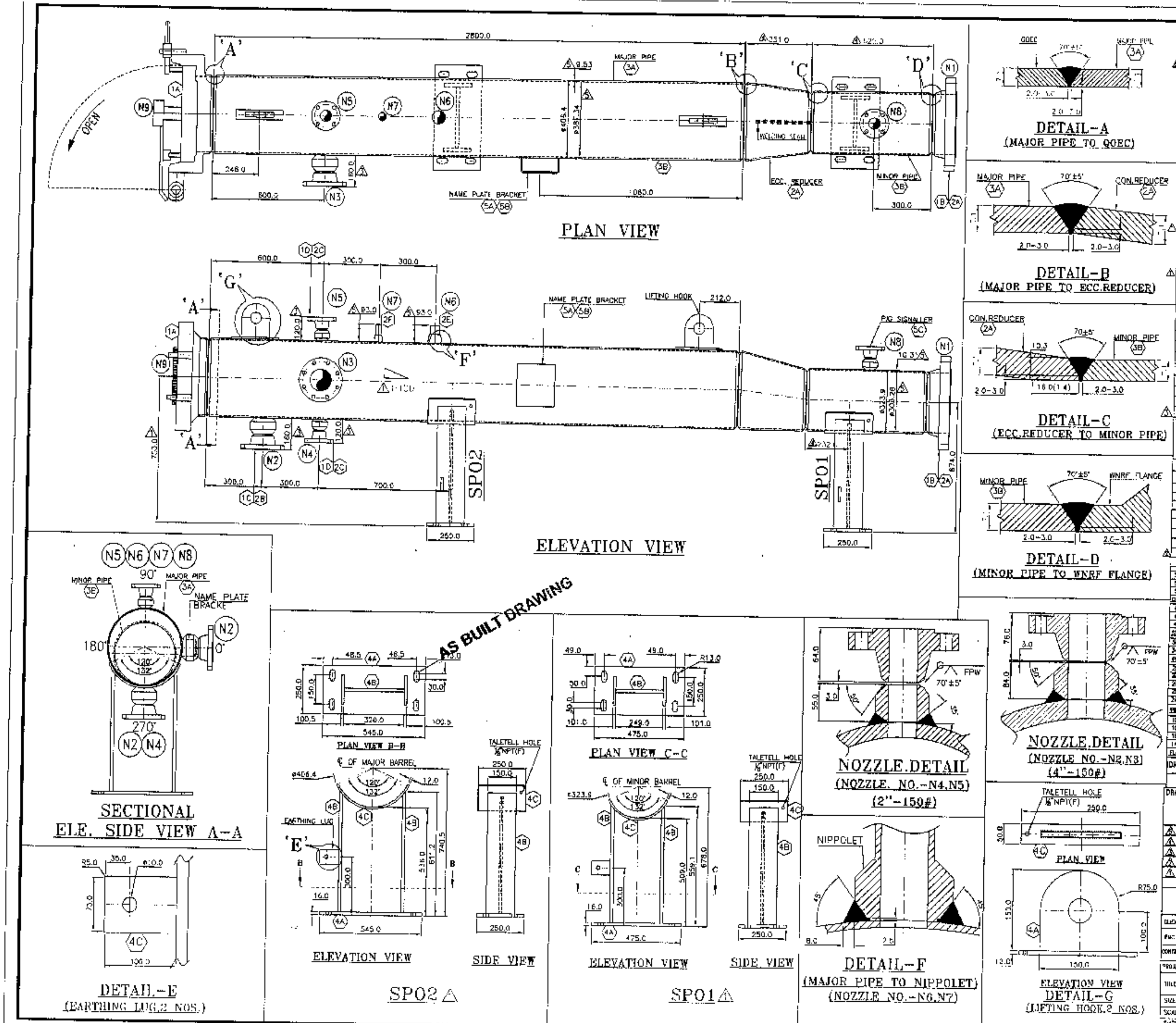
CLIENT: OIL INDIA LIMITED

PMC: ENGINEERS INDIA LIMITED

CONTRACTOR: CONTROL PLUS OIL AND GAS SOLUTIONS PVT. LTD.

TITLE: GENERAL ARRANGEMENT DRAWING (PIG RECEIVER)

DIGBOI, RECEIVING BARREL



DESIGN DATA

DESIGN & MFG. CODE	ASME B31.4
MAJOR SIZE (MAJOR/MINOR)	16"NB x 12"NB
MAJOR WALL THK. (MAJOR/MINOR) mm	9.53 THK. FOR 16"Ø ,10.31 THK FOR 12"Ø
ORIENTATION	HORIZONTAL
DESIGN TEMPERATURE(°C)	(-29) TO 65
DESIGN PRESSURE KG/CM²G	19
CORROSION ALLOWANCE mm	3 mm
SERVICE	LIQUID (CRUDE OIL)
DESIGN FACTOR	0.72
HYDROTEST PRESSURE KG/CM²G	23.8
TYPE OF SUPPORT	BOTH SLIDING
INSPECTION BY	TPIA/CLIENT
HYDRO STATIC TEST(DURATION)	1 HRS.
EMPTY WEIGHT	875 KG. APPX.
WATER FILLED WEIGHT	1056 KG. APPX.

TAG NOS.	DELIVERY LOCATION
006-ML-00-101 (WITH PIG SIGNALLER 006-XIS- 3501)	PS-6 (BONGAIGAON)

NOTES :-

1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED
2) FLANGES WELDED ON SCRAPER TRAP WILL BE AS PER ASME B16.5 AND SHALL HAVE RAISED FACE FACE FINISH TO 125 AARH
3) QUICK OPENING END CLOSURE WILL BE TAKEN AS PER ASME B31.4 / ASME SEC. VIII DIV. 1, WHICHEVER IS HIGHER, THE QOEC SHALL BE DESIGNED FOR 150# CLASS RATING
4) ALL WELDOLETS WILL BE AS PER MSS-SP-97 & ALL NIPPOLETS WILL BE AS PER MANUFACTURER'S STANDARD
5) ALL INSPECTION & TEST WILL BE CARRIED OUT AS PER CLAUSE NO.5 OF SPECIFICATION NO. 6-71-0031 / OIL APPROVED QAP NO. :- CPL/OS-OIL-LAR-24A-REV-0
6) SIGNALLER WILL BE SUPPLYING ALONG WITH NOZZLE BY VENDOR.

CUSTOMER REFERENCE DRAWING/DATA SHEET NO.

1	PO NO.:-	OIL/C&P/A415-DF-MR-9050/1001-006
2	DATA SHEET DRAWING NO.:-	A415-000-11-42-DS-05

REFERENCE DRAWING/DOCUMENTS

PIG TROLLEY DRAWING NO.:-	CP-OIL-16"X12"-TRY-13-002-0
NAME PLATE DRAWING NO.:-	CP-OIL-16"X12"-NPLT-13-008-0

STANDARD SPECIFICATION NO. / ADDENDUM

1	6-71-0031 REV. 4	STANDARD SPECIFICATION FOR SCRAPER TRAPS
2	6-78-0001 REV. 4	SPECIFICATION FOR QUALITY MGT SYSTEM REQUIREMENTS FROM BIDDERS
3	6-78-0003 REV. 0	SPECIFICATION FOR DOCUMENTATION REQUIREMENT FROM SUPPLIERS
4	A415-000-11-42-AD-31 REV. A	ADDENDUM TO STANDARD SPECIFICATIONS FOR SCRAPER TRAP

7) PAINTING
1) PRIMARY COAT- ZINC RICH PRIMER- 2 COATS- 100 MICRONS
2) INTERMEDIATE COAT- EPOXY POLYAMIDE- 2 COATS- 100 MICRONS
3) FINAL COAT- AGATE GRAY COLOR- 100 MICRONS
TOTAL DFT: 300 MICRONS.

NOZZLE SCHEDULE

NOZZLE	SERVICE	SIZE	SCH./THK.	QTY.	CLASS	TYPE	REMARK
N1	CONNECTION FLANGE	12"	7.1 THK	1 NOS.	150#	WNRF	-
N2	KICKER CONNECTION	4"	XXS	1 NOS.	150#	WNRF	-
N3	DRAIN CONNECTION	4"	XXS	1 NOS.	150#	WNRF	-
N4	UTILITY CONNECTION	2"	XXS	1 NOS.	150#	WNRF	-
N5	VENT	2"	XXS	1 NOS.	150#	WNRF	-
N6	PRESS. GAUGE CONN.	1.5"	XXS	1 NOS.	150#	PE. FORGED	-
N7	TSV CONNECTION	3/4"	XXS	1 NOS.	150#	PE. FORGED	-
N8	PIG SIGNALLER	1"	-	1 NOS.	150#	-	-
N9	END CLOSURE	16"	7.1 THK	1 NOS.	150#	WNRF	

BILL OF MATERIAL

IDNO	ITEM	SIZE	CLASS	RATING/SCH.	QTY	UNIT	MATERIAL
5C	PIG SIGNALLER	-	-	-	1	EA	AS PER DATA SHEET
5B	NAME PLATE	6" x 6"	-	-	1	EA	SS316
5A	NAME PLATE BKT	8 THK	-	-	1	EA	SA 516 GR. 70
	OTHERS						
4C	PLATE	12 THK	-	-	LOT	KG.	A 516 GR.60
4B	PLATE	12 THK	-	-	LOT	KG	A 36
4A	PLATE	16 THK	-	-	LOT	KG	A 36
	STRUCTURAL MATERIAL						
3B	MINOR PIPE	12"	-	10.31 THK.	0.6	MTR	API 5L GR. X-42 PSL2
3A	MAJOR PIPE	16"	-	9.53 THK	2.8	MTR	API 5L GR. X-65 PSL2
	PIPE						
2E	NIPPOLET	16"x3/4"	-	XXS	1	[illegible]	A 105
2D	NIPPOLET	16"x1.5"	-	XXS	1		A 105
2C	WELDOLET	16" x 2"	-	XXS	2	EA	A 105,WF
2B	WELDOLET	16" x 4"	-	XXS	2	EA	A 105,WF
2A	ECC. REDUCERS	16"x12"	-	7.1 THK	1	EA	MSS-SP75 GR.WPHY 42
	PIPE FITTINGS						
1D	FLANGE	2"	150#	XXS	2	EA	A 105,WNRF
1C	FLANGE	4"	150#	XXS	2	EA	A 105,WNRF
1B	FLANGE	12"	150#	7.1THK	1	EA	A 105,WNRF
1A	QOEC	16"	150#	7.1 THK	1	EA	A 694 GR. F-65
	FLANGE						

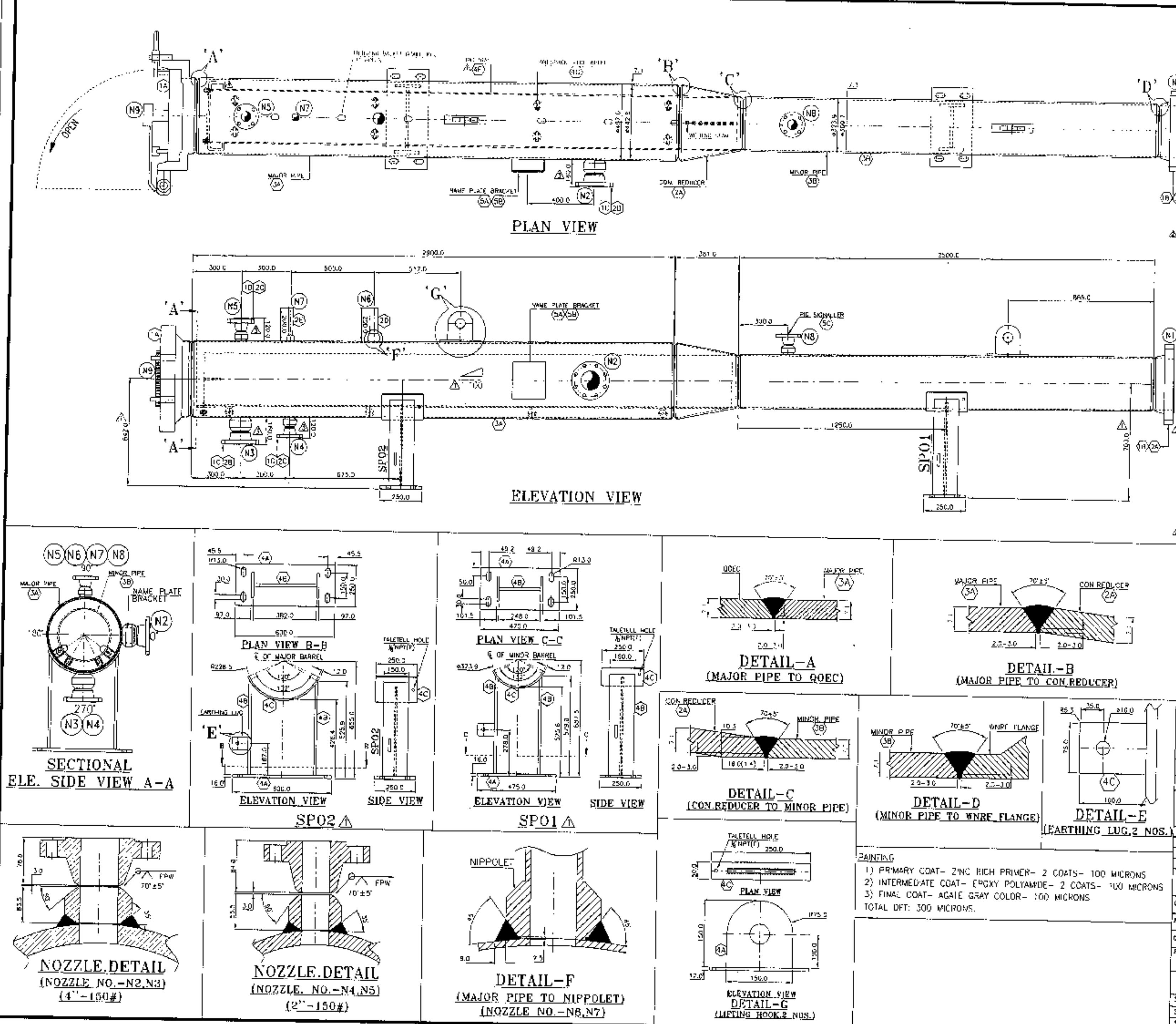
DRAWING PREPARED BY:

Control Plus
Oil And Gas Solutions Pvt.Ltd

	REV.	DATE	SUBJECT OF REVISION	PREPARED IN.	PREPARED SIGN.	CHECKED IN.	CHECKED SIGN.	APPROVED IN.	APPROVED SIGN.
⚠	5	12.06.15	AS- BUILT	JITENDRA GUPTA		J.K.P		A.Y.M.	
⚠	4	05.05.15	CHANGES AS PER EIL COMMENTS	A.D.P		J.K.P		A.Y.M	
⚠	3	18.06.14	CHANGES AS PER EIL COMMENTS	H.K.P		A.K		R.J.D	
⚠	2	18.05.14	CHANGES AS PER EIL COMMENTS	H.K.P		A.K		R.J.D	
⚠	1	20.02.14	CHANGES AS PER EIL COMMENTS	H.K.P		A.K		R.J.D	
	0	15.11.13	ISSUED FOR APPROVAL	H.K.P		A.K		R.J.D	

CLIENT	OIL INDIA LIMITED
PMC	ENGINEERS INDIA LIMITED
CONTRACTOR	CONTROL PLUS OIL AND GAS SOLUTIONS PVT LTD
PROJECT	SUPPLY OF SCRAPER LAUNCHER/RECEIVER FOR MBPS PROJECT JOB NO: 548
TITLE	AS BUILT DWG FOR TAG NO : 006-ML-00-101 (WITH PIG SIGNALLER 006-XIS- 3501)
SIZE:	A3
SCALE:	NTS
SHEET:	1 OF 1
DRAWING NUMBER:	CP-OIL-16"X12"-LAUN-15-010-5
REV.	5

PS-6, BONGAIGAON LAUNCHING BARREL



PAINTING

1) PRIMARY COAT- ZINC RICH PRIMER- 2 COATS- 100 MICRONS
2) INTERMEDIATE COAT- EPOXY POLYAMIDE- 2 COATS- 100 MICRONS
3) FINAL COAT- AGATE GRAY COLOR- 100 MICRONS
TOTAL DFT: 300 MICRONS.

DESIGN DATA

DESIGN & MFG. CODE		ASME B31.4
MAJOR SIZE (MAJOR/MINOR)		18"NB x 12"NB
MAJOR WALL THK. (MAJOR/MINOR)	mm	7.1 THK FOR 18", 7.1 THK FOR 12"
ORIENTATION		HORIZONTAL
DESIGN TEMPERATURE(°C)		(-20) TO 65
DESIGN PRESSURE	KG/CM²G	19
CORROSION ALLOWANCE	mm	3 mm
SERVICE		LIQUID CRUDE OIL
DESIGN FACTOR		0.72
HYDROTEST PRESSURE	KG/CM²G	23.6
TYPE OF SUPPORT		BOTH SLIDING
INSPECTION BY		TPIA/CLIENT
HYDRO STATIC TEST(DURATION)		4 HRS.
EMPTY WEIGHT		952 KG APPX.
WATER FILLED WEIGHT		1506 KG APPX.

TAG NOS.	DELIVERY LOCATION
204-MR-00-101 (WITH PIG SIGNALLER 204-XXI-4201)	PS-6 (BONGAIGAON)

NOTES :-

1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2) FLANGES WELDED ON SCRAPER TRAP WILL BE AS PER ASME B16.5 AND SHALL HAVE RAISED FACE FINISH TO 125 AARH.
3) THE PIG RECEIVING TRAPS WILL BE EQUIPPED WITH FULL ROUND INTERNAL REMOVABLE FILTERING BASKET CONSISTING OF A PUNCHED PLATE WITH ADEQUATE NUMBER OF ROWS OF DRAIN HOLES.
4) QUICK OPENING END CLOSURE WILL BE DESIGNED AS PER ASME SEC. VIII DIV. 1. THE SELECTED WALL THICKNESS OF END CLOSURE HUB SHALL BE TAKEN AS PER ASME B31.4 & ASME SEC VIII DIV. 1, WHICHEVER IS HIGHER THE QOEC SHALL BE DESIGNED FOR 150# CLASS RATING.
5) ALL WELDOLETS WILL BE AS PER MSS-SP-97 & ALL NIPPOLETS WILL BE AS PER MANUFACTURER'S STANDARD
6) ALL INSPECTION AND TEST WILL BE CARRIED OUT AS PER CLAUSE NO. 5 OF SPECIFICATION NO. 6-71-0051 / OIL APPROVED QAP NO. - CPL15-OIL-QAP 248-REV-0
7) SIGNALLER WILL BE SUPPLYING ALONG WITH NOZZLE BY VENDOR.
8) THE SCRAPER TRAPS SHALL BE SUITABLE FOR ACCOMMODATING LATEST ONLINE INSPECTION TOOLS (IOMIIST).

CUSTOMER REFERENCE DRAWING/DATA SHEET NO.

1	PO NO:-	OIL/C&P/A415-OF-MR-5060/1001-005
2	DATA SHEET DRAWING NO -	A415-000-11-42-DS-06

REFERENCE DRAWING/DOCUMENTS

PIG TROLLEY DRAWING NO -	CP-OIL-18"X12"-TRAY-13-C02-5
NAME PLATE DRAWING NO -	CP-OIL-18"X12"-NPLT-13-008-0

STANDARD SPECIFICATION NO. / ADDENDUM

1	6-71-0001 REV. 4	STANDARD SPECIFICATION FOR SCRAPER TRAPS
2	6-78-0001 REV. 4	SPECIFICATION FOR QUALITY MGT. SYSTEM REQUIREMENTS FROM BIDDERS
3	6-78-0003 REV. 0	SPECIFICATION FOR DOCUMENTATION REQUIREMENT FROM SUPPLIERS
4	A415-000-11-42-AD-31 REV. A	ADDENDUM TO STANDARD SPECIFICATIONS FOR SCRAPER TRAP

NOZZLE SCHEDULE

NOZZLE	SERVICE	SIZE	SCH/THK.	QTY.	CLASS	TYPE	REMARK
N1	CONNECTION FLANGE	12"	7.1 THK	1 NOS.	150#	WNRF	-
N2	BYPASS CONNECTION	4"	XXS	1 NOS	150#	WNRF	-
N3	DRAIN CONNECTION	4"	XXS	1 NOS	150#	WNRF	-
N4	UTILITY CONNECTION	2"	XXS	1 NOS.	150#	WNRF	-
N5	VENT	2"	XXS	1 NOS	150#	WNRF	-
N6	PRESS. GAUGE CONN	1.5"	XXS	1 NOS	150#	PL. FORGED	-
N7	TSV CONNECTION	3/4"	XXS	1 NOS.	150#	PL. FORGED	-
N8	PIG SIGNALLER	2"	-	1 NOS	150#	-	-
N9	END CLOSURE	18"	7.1 THK	1 NOS	150#	WNRF	-

BILL OF MATERIAL

NO	ITEM	SIZE	CLASS	RATING/SCH.	QTY	UNIT	MATERIAL
5C	PIG SIGNALLER	-	-	-	20	EA	AS PER DATA SHEET
5B	NAME PLATE	8" x 6"	-	-	1	EA	SS316
5A	NAME PLATE BKT.	6 THK	-	-	1	EA	SA 516 GR. 70
OTHERS							
4E	ANTI-FRICTION GUIDE	25 THK	-	-	4	EA	NYLON
4F	PIG TRAY	6 THK	-	-	[illegible]	KG	[illegible]
4C	PLATE	12 THK	-	-	-	KG	A 516 GR 60
4B	PLATE	12 THK	-	-	-	KG	A 36
4A	PLATE	16 THK	-	-	-	KG	A 36
STRUCTURAL MATERIAL							
3B	MINOR PIPE	12"	-	7.1 THK	2.5	MTR	API 5L GR. X-42 PSL2
3A	MAJOR PIPE	18"	-	7.1 THK	2.9	MTR.	API 5L GR. X-42 PSL2
PIPE							
2E	NIPPOLET	18"x3/4"	-	XXS	1		A 105
2D	NIPPOLET	18"x1.5"	-	XXS	1		A 105
2C	WELDOLET	18" x 2"	-	XXS	2	EA	A 105,BW
2B	WELDOLET	18" x 4"	-	XXS	2	EA	A 105,BW
2A	CON. REDUCERS	18"x12"	-	7.1 THK	1	EA	MSS-SP75 GR WPHY 42
PIPE FITTINGS							
1D	FLANGE	2"	150#	XXS	2	EA	A 105,WNRF
1C	FLANGE	4"	150#	XXS	2	EA	A 105,WNRF
1B	FLANGE	12"	150#	7.1 THK	1	EA	A 105,WNRF
1A	QOEC	18"	150#	7.1 THK	1	EA	A 694 GR. F-42
FLANGE							

DRAWING PREPARED BY: Control Plus Oil And Gas Solutions Pvt.Ltd

REV.	DATE	SUBJECT OF REVISION	PREPARED	CHECKED	APPROVED
3	18.05.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	[illegible]
2	16.05.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	[illegible]
1	08.02.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	[illegible]
0	22.11.13	ISSUED FOR APPROVAL	H.K.P	A.K	[illegible]

CLIENT	OIL INDIA LIMITED
PMC	ENGINEERS INDIA LIMITED
CONTRACTOR	CONTROL PLUS OIL AND GAS SOLUTIONS PVT. LTD
PROJECT	SUPPLY OF SCRAPER LAUNCHER/RECEIVER FOR [illegible] PROJECT
TITLE	GENERAL ARRANGEMENT DRAWING (PIG RECEIVER)
SIZE:	A3
SCALE:	NTS
SHEET:	1 OF 2
DRAWING NUMBER:	CP-OIL-18"X12"-RECH-13-002-03

DOCUMENT REVIEW

BONGAIGAON REFINERY RECEIVING BARREL