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: 02.07.2025

CORRIGENDUM – 2 FOR OIL TENDER NO. GEM/2025/B/6333777

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

a) Scope of Work: Terms of Reference – Clause 4.3 to be read as given below:

The Contractor shall carry out necessary pre inspection operations to ensure desired level of inspection performance requirement. In this regard, the Contractor shall formulate necessary cleaning program in consultation with the Company. Caliper pig run is a part of this ILI survey. Caliper pig run to be carried out prior to MFL tool run. Bidders to quote accordingly.

b) Protection of Company's Property and Existing Facilities, Clause 7.1 to be read as given below:

The contractor shall perform its works in such a manner as will prevent damage to the Company's pipeline and shall carry out the works in such a manner as to conform to, be consistent with and not interfere in any way with continuous and safe operation of the pipeline. In the event of disruptions in the normal pipeline operations during the run of ~~**gauging tool**~~, cleaning tool and inspection tool for the reasons other than as specified in clause 8.0 hereunder, the Contractor shall pay the Company the cost of unrecoverable petroleum product spilled during such disruption/ damage, at the prevailing market price along with associated opportunity cost. The aggregate amount of compensation payable to the Company for the above shall be limited to the contract value. Provided further that the foregoing shall also apply in case of a shutdown of normal pipeline operation due to obstruction caused by the contractor's equipment.

c) Scope of Work, Clause 8.3 (b) Shut-Down Of Pipeline Operations During Inspection & Standby to be read as given below:

If contractor's equipment in the pipeline, except Gauging Pig, becomes stuck which is caused due to faults in the design and selection of the inspection/cleaning equipment or any such reasons attributable to the contractor, then, The contractor shall be held responsible for such shut down and cost of shutdown shall be recovered as per clause no 7.0 from the Contractor. The contractor shall not be entitled for any standby rates for the period of such shut down of pipeline operation. The contractor shall not have any right to terminate the contract during shutdown of this nature.

d) This corrigendum is being issued to incorporate the undermentioned additional clause in the Scope of Work, Clause 4.0 under Contractor's Obligation of the referred tender document as follows:

SCC>>Contractor's Obligation>>Clause4.0

Quote

"The Defect Liability Period shall be twelve (12) months commencing from the date of completion of the contract work."

Unquote

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

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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

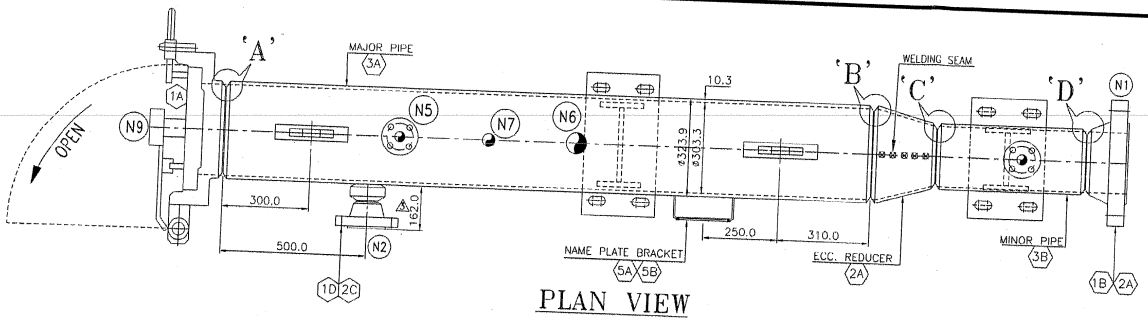
Please refer additional drawing as per the attached Annexure-B.

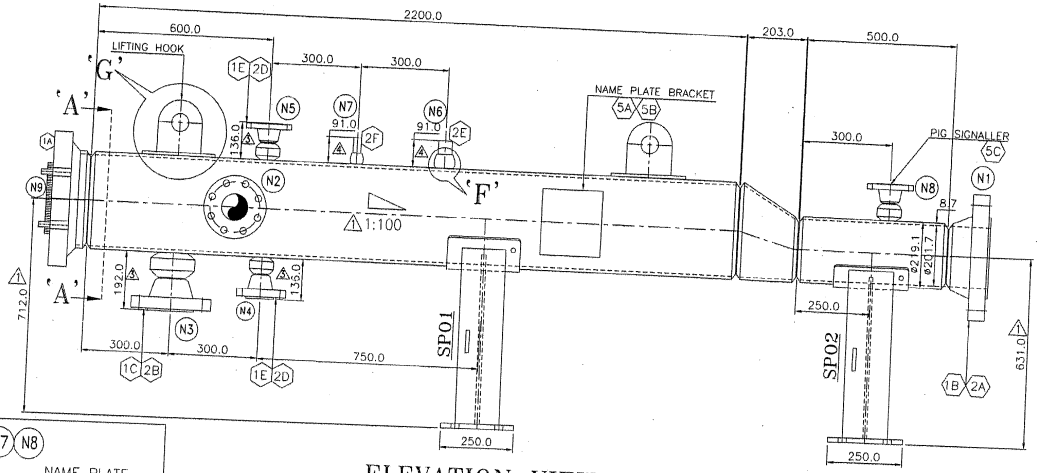
d) EXTENSION OF SUBMISSION DEADLINE: 11.07.2025 (14:00 HRS.)

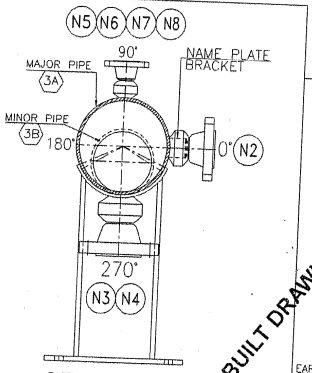
e) EXTENSION OF TECHNICAL RESPONSE OPENING DATE:11.07.2025 (14:30 HRS.)

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

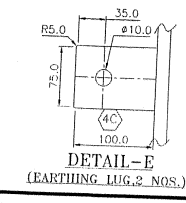
ANNEXURE-B

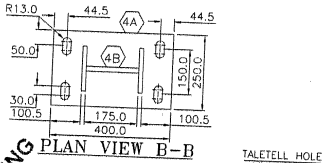


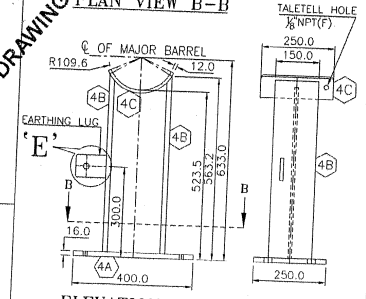


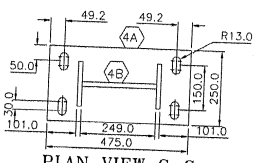


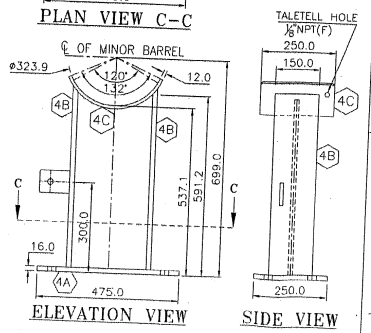
AS BUILT DRAWING

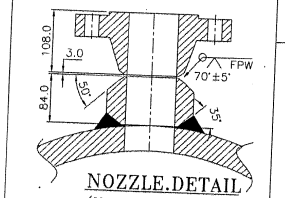


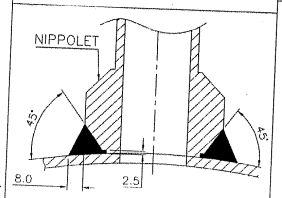


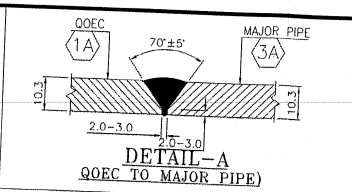


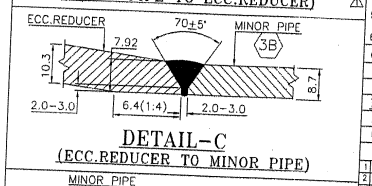


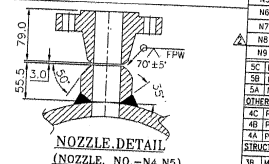


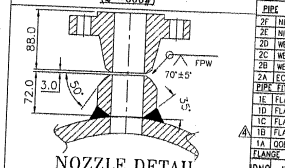


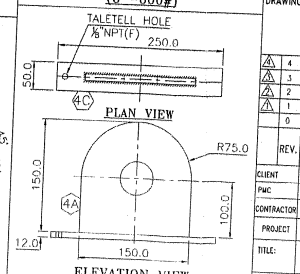












DESIGN DATA

DESIGN & MFG. CODE	ASME B31.4
MAJOR SIZE (MAJOR/MINOR)	12"NB x 8"NB
MAJOR WALL THK. (MAJOR/MINOR) mm	10.3 THK. FOR 12"ø ,8.7 THK. FOR 8"ø
ORIENTATION	HORIZONTAL
DESIGN TEMPERATURE(°C)	(-29) TO 65
DESIGN PRESSURE KG/CM²G	84
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/CLIENT
HYDRO STATIC TEST(DURATION)	1 HRS.
EMPTY WEIGHT	752 KG. APPX.
WATER FILLED WEIGHT	928 KG. APPX.

TAG NOS.	DELIVERY LOCATION
001-ML-00-102 (WITH PIG SIGNALLER 001-XXIS- 1601)	PS-1 (NAHARKATIA)

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 7 ASME SEC. VIII DIV. 1, WHICHEVER IS HIGHER. THE QOEC SHALL BE DESIGNED FOR 600# CLASS RATING MENUFACTURER'S STANDARD.
4). ALL WELDOLETS WILL BE AS PER MSS-SP-97 & ALL NIPPOLETS WILL BE AS PER
5). ALL INSPECTION & TEST WILL BE CARRIED OUT AS PER CLAUSE NO.5 OF SPECIFICATION NO. 6-71-0031 / EIL APPROVED QAP. NO. :- CPLUS-OIL-L&R-248-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-QF-MR-9050/1001-006
2	DATA SHEET DRAWING NO.:-	A415-000-11-42-DS-09

REFERENCE DRAWING/DOCUMENTS

PIG TROLLEY DRAWING NO.:-	CP-OIL-12"X8"-TRA6-13-002-0
NAME PLATE DRAWING NO.:-	CP-OIL-12"X8"-NPLG-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	6-78-0002 REV. 0	SPECIFICATION FOR DOCUMENTATION REQUIREMENT FROM SUPPLIERS
4	A415-000-11-42-AD-31 REV. A	ADDENDUM TO STANDARD SPECIFICATIONS FOR SCRAPER TRAP

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	8"	8.7 THK	1 NOS.	600#	WNRF	-
N2	KICKER 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#	PE. FORGED	-
N7	TSV CONNECTION	3/4"	XXS	1 NOS.	600#	PE. FORGED	-
N8	PIG SIGNALLER	2"	-	1 NOS.	600#	-	-
N9	END CLOSURE	12"	10.3 THK	1 NOS.	600#	WNRF	-
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	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	8"	-	8.7 THK	0.5	MTR.	WPI 5L GR. X-42 PSL2
3A	MAJOR PIPE	12"	-	10.3 THK	2.2	MTR.	API 5L GR. X-42 PSL2
PIPE							
2F	NIPPOLET	12"x3/4"		XXS		EA	A 105
2E	NIPPOLET	12"x1.5"		XXS		EA	A 105
2D	WELDOLET	12" x 2"		XXS		EA	A 105
2C	WELDOLET	12" x 3"		XXS		EA	A 105,BW
2B	WELDOLET	12" x 4"		XXS		EA	A 105,BW
2A	ECC. REDUCERS	12" x 8"		10.3 THK	1	EA	A 105,HW
PIPE FITTINGS							
1E	FLANGE	3"	600#	XXS		EA	A 105,WNRF
1D	FLANGE	4"	600#	XXS		EA	A 105,WNRF
1C	FLANGE	2"	600#	XXS		EA	A 105,WNRF
1B	FLANGE	8"	600#	8.7 THK		EA	A 105,WNRF
1A	QOEC	12"	600#	10.3 THK	1	EA	A 105,WNRF
FLANGE							
ITEM NO	ITEM	SIZE					MATERIAL

BILL OF MATERIAL

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

REV.	DATE	SUBJECT OF REVISION	PREPARED	CHECKED	APPROVED
4	26.02.15	AS-BUILT	A.P.P	M.C.P	A.V.M
3	18.06.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	R.J.D
2	16.05.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	R.J.D
1	08.02.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	R.J.D
0	22.11.13	ISSUED FOR APPROVAL	H.K.P	A.K	R.J.D

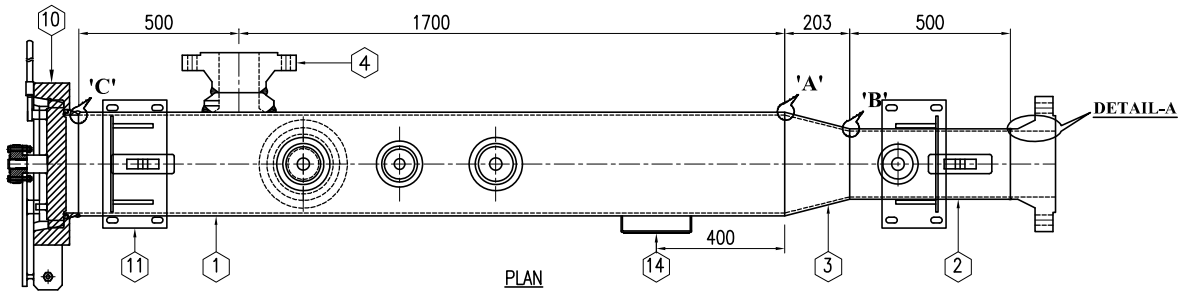
CLIENT	OIL INDIA LIMTED
PMC	ENGINEERS INDIA LIMITED
CONTRACTOR	CONTROL PLUS OIL AND GAS SOLUTIONS PVT. LTD
PROJECT	SUPPLY OF SCRAPER LAUNCHER/RECEIVER FOR NBPS PROJECT
JOB NO:	248
TITLE:	AS-BUILT DWG. FOR TAG NO: 001-ML-00-102 (WITH PIG SIGNALLER 001-XXIS- 1601)
SIZE:	A3
SCALE:	NTS
SHEET:	1 OF 1
DRAWING NUMBER:	CP-OIL-12"X8"-LAU6-15-010-4
REV.	4

PS1, DULIAJAN LAUNCHER BARREL

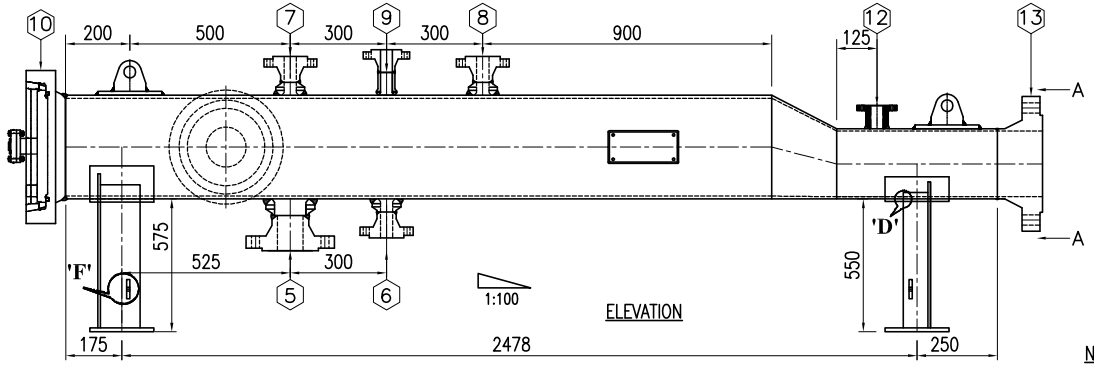
DO NOT SCALE, ASK IF IN DOUBT

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

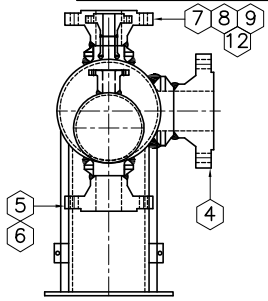
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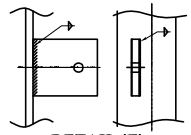
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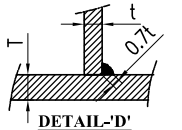
ELEVATION



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			

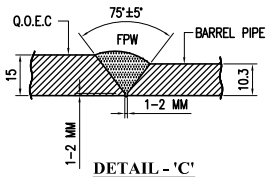
NOTES
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. INSPECTION HOLD POINT: REFER QAP.
3. RADIOGRAPHY: 100% FOR ALL BUTT-WELDS.
4. DP/MPI SHALL BE CARRIED OUT FOR PRESSURE PART FILLET WELD.
5. ALL FLANGES HOLES TO STRADDLE CENTER LINE.
6. ALL FLANGES FACES, QOEC SHALL BE IN TRUE VERTICAL/HORIZONTAL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

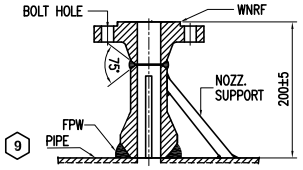
PAINTING DETAILS
SURFACE PREPARATION BY ABRASIVE/SHOT BLASTING AS PER SSPC-SP-6.

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

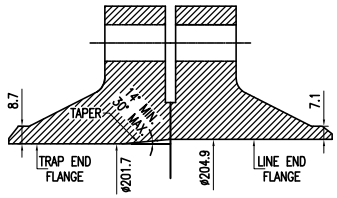
FINAL SHADE SHALL BE CANARY YELLOW.



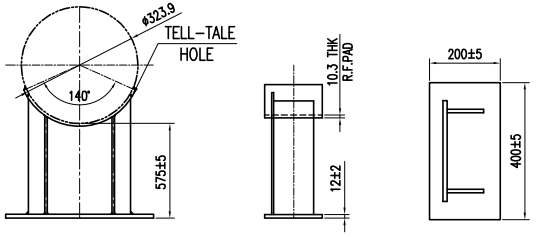
DETAIL - 'C'
EDGE WELDING DETAIL
(QOEC TO BARREL PIPE)



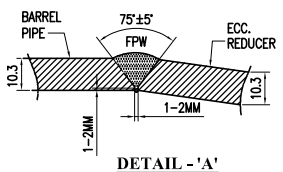
(3/4" NOZZLE)
TYP. FLANGE - NIPPOLET
WELDING DETAIL



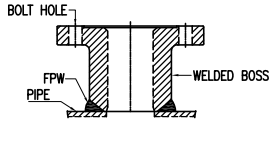
DETAIL-A (FLANGE ID MATCH DETAIL)



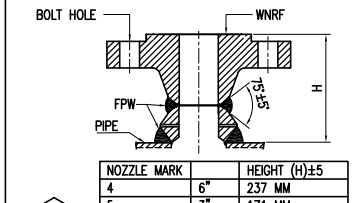
DETAIL OF BARREL PIPE SUPPORT



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

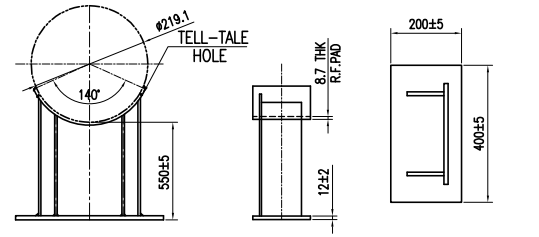


(2" NOZZLE)
TYP. WELDED BOSS
WELDING DETAIL

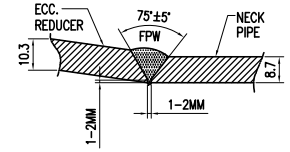


NOZZLE MARK		HEIGHT (H)±5
4	6"	237 MM
5	3"	171 MM
6, 7, 8	1.5"	135 MM

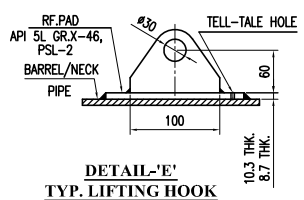
(NOZZLE)
FLANGE TO WELDOLET
WELDING DETAIL



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
(अॉयल इंडिया लिमिटेड Oil India Limited)

VENDOR: VKVC LLP
Ahmedabad, India.

TITLE: 12" x 8" 600# SCRAPER LAUNCHER

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

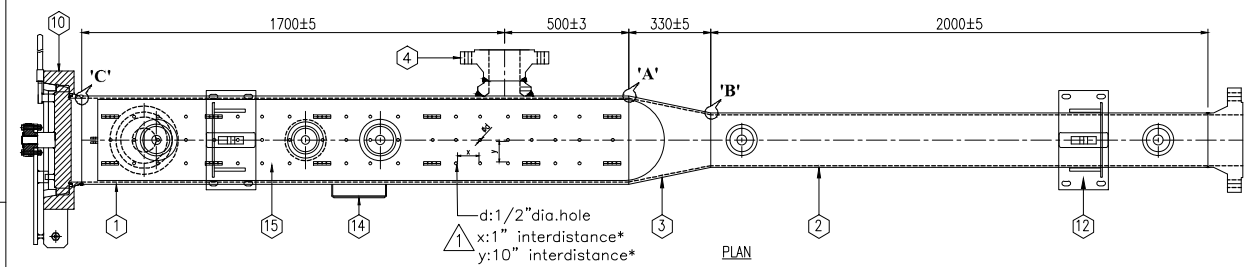
DRN. BY	AKASH	13.10.2020	
CHD. BY	ANKIT.R	13.10.2020	
APPD. BY	KRUNAL	13.10.2020	
SCALE	NTS		
DC-VKVC-LNCR-20-E015	DESIGN CALC. OF LAUNCHER		
DS-VKVC-LNCR-20-E015	DATA SHEET OF LAUNCHER		
DOC. NO.	REFERENCE DOCUMENT		

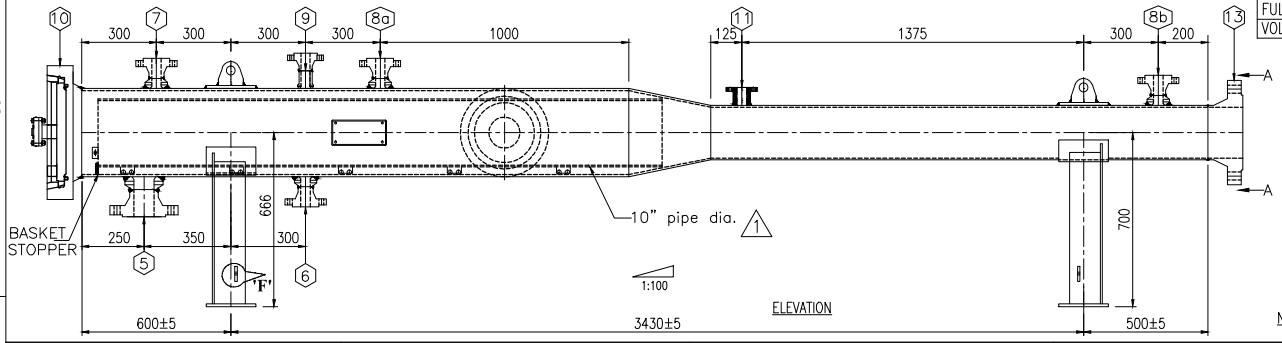
DO NOT SCALE, ASK IF IN DOUBT

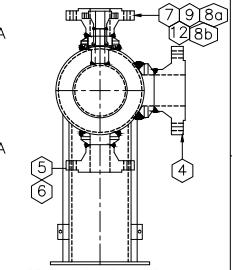
DO NOT SCALE, ASK IF IN DOUBT

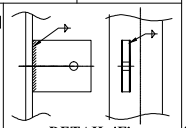
SUBMITTED AGAINST:
PO NO.: 7910542/SGI DATE: 30.09.2020
VKV W.O. NO.: 20-21/228/G DATE: 08.10.2020

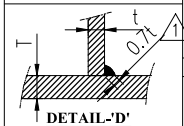
TAG NO.: TK-100











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			

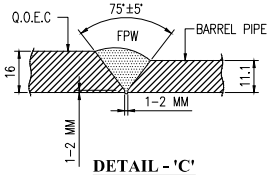
NOTES
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. INSPECTION HOLD POINT: REFER QAP.
3. RADIOGRAPHY: 100% FOR ALL BUTT-WELDS.
4. DP/MPI SHALL BE CARRIED OUT FOR PRESSURE PART FILLET WELD.
5. ALL FLANGES HOLES TO STRADDLE CENTER LINE.
6. ALL FLANGES FACES, QOEC SHALL BE IN TRUE VERTICAL/HORIZONTAL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

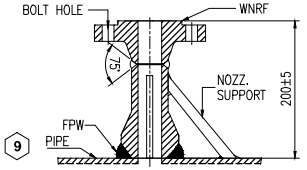
PAINTING DETAILS
SURFACE PREPARATION BY ABRASIVE/SHOT BLASTING AS PER SSPC-SP-6.

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

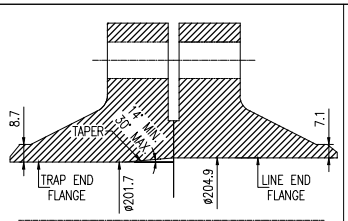
FINAL SHADE SHALL BE CANARY YELLOW.



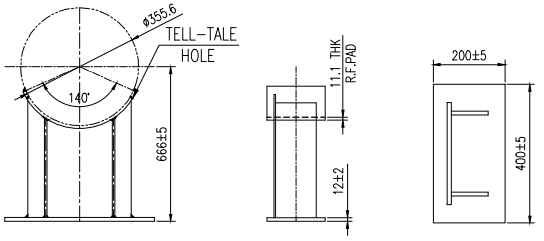
DETAIL - 'C'
EDGE WELDING DETAIL
(QOEC TO BARREL PIPE)



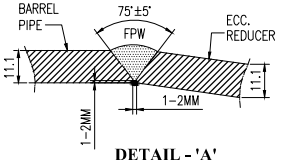
(3/4" NOZZLE)
TYP. FLANGE - NIPPOLET
WELDING DETAIL



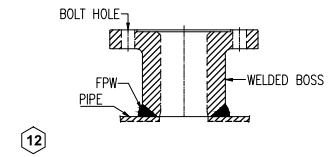
DETAIL-A (FLANGE ID MATCH DETAIL)



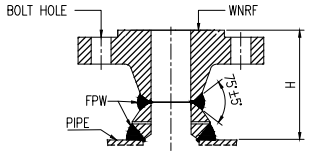
DETAIL OF BARREL PIPE SUPPORT



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



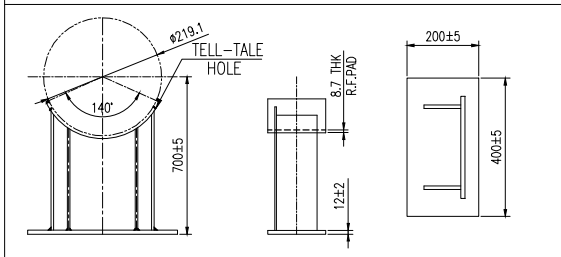
(2" NOZZLE)
TYP. WELDED BOSS
WELDING DETAIL



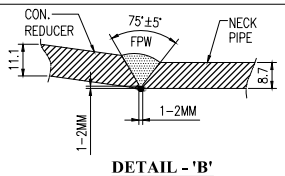
NOZZLE MARK		HEIGHT (H)±5
4	6"	237 MM
5	3"	171 MM
6, 7, 8	1.5"	135 MM

4 5 8a
6 7 8b

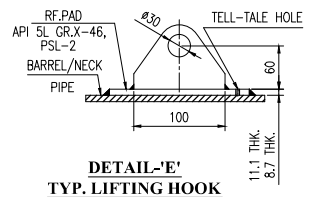
(NOZZLE)
FLANGE TO WELDOLET
WELDING DETAIL



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	VKV 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

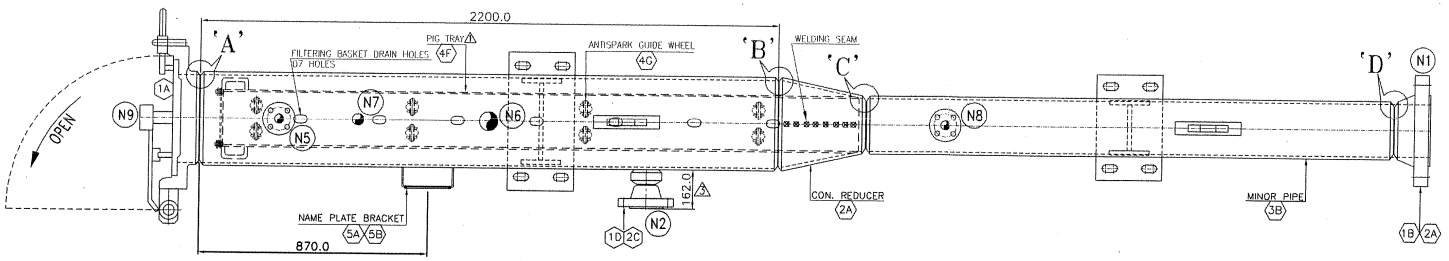
CLIENT: M/s. OIL INDIA LIMITED

VENDOR: VKVC LLP
Ahmedabad, India.

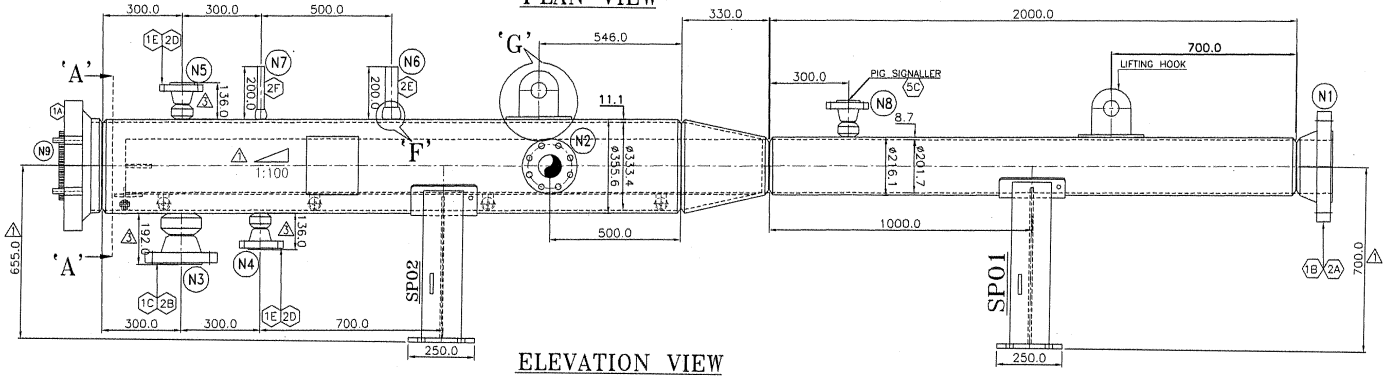
TITLE: 14" x 8" 600# SCRAPER RECEIVER

DRG. NO.: VKVC-RCVR-20-E007 REV. 1

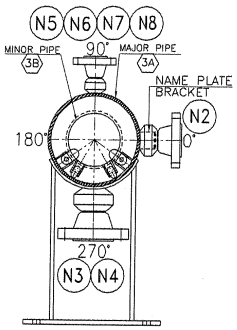
DO NOT SCALE, ASK IF IN DOUBT



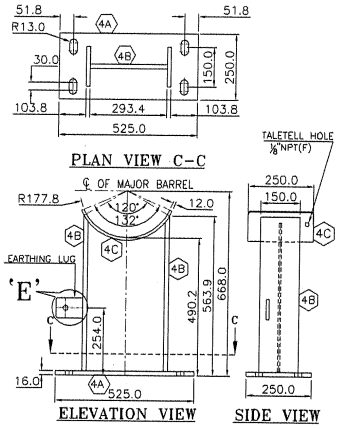
PLAN VIEW



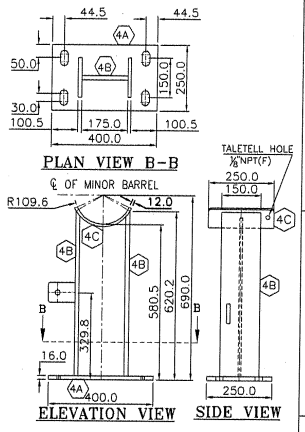
ELEVATION VIEW



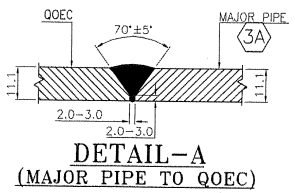
SECTIONAL ELE. SIDE VIEW A-A



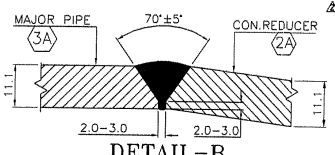
SP02⚠



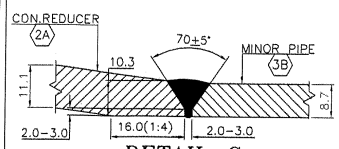
SP01⚠



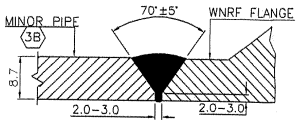
DETAIL-A
(MAJOR PIPE TO QOEC)



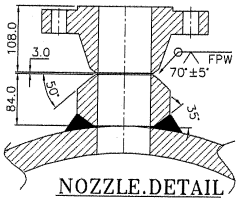
DETAIL-B
(MAJOR PIPE TO CON.REDUCER)



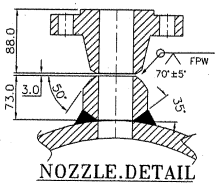
DETAIL-C
(CON.REDUCER TO MINOR PIPE)



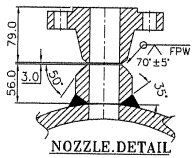
DETAIL-D
(MINOR PIPE TO WNRF FLANGE)



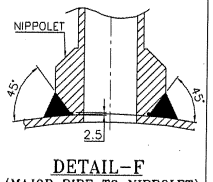
NOZZLE.DETAIL
(NOZZLE NO.-N3)
(4"-600#)



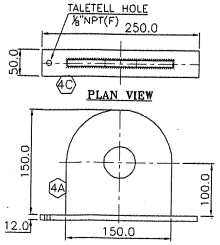
NOZZLE.DETAIL
(NOZZLE. NO.-N2)
(3"-600#)



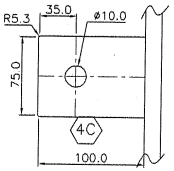
NOZZLE.DETAIL
(NOZZLE. NO.-N4,N5)
(2"-600#)



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



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



DETAIL-E
(EARTHING LUG,2 NOS.)

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. FOR 14"ø ,8.7 THK. FOR 8"ø
ORIENTATION	HORIZONTAL
DESIGN TEMPERATURE(°C)	(-29) TO 65
DESIGN PRESSURE KG/CM²G	84
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/CLIENT
HYDRO STATIC TEST(DURATION)	1 HRS.
EMPTY WEIGHT	1005 KG APPX.
⚠ WATER FILLED WEIGHT	1262 KG APPX.

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

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 600# CLASS RATING.
5. ALL WELDOLETS WILL BE AS PER MSS-SP-97 & ALL NIPPOLETS WILL BE AS PER MENUFACTURER'S STANDARD.
6. ALL INSPECTION AND TEST WILL BE CARRIED OUT AS PER CLAUSE NO. 5 OF SPECIFICATION NO. 6-71-0031 / EIL APPROVED QAP NO. :- CPLUS-OIL-L&R-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 (LONGEST).

CUSTOMER REFERENCE DRAWING/DATA SHEET NO.		
1	PO NO.:-	OIL/C&P/A415-QF-MR-9050/1001-006
2	DATA SHEET DRAWING NO.:-	A415-000-11-42-DS-10

REFERENCE DRAWING/DOCUMENTS	
PIG TROLLEY DRAWING NO.:-	CP-OIL-14"X8"-TRA6-13-002-0
NAME PLATE DRAWING NO.:-	CP-OIL-14"X8"-NPL6-13-008-0

⚠ 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 VENDORS
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

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	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#	PE FORGED	-
N7	TSV CONNECTION	3/4"	XXS	1 NOS.	600#	PE FORGED	-
N8	PIG SIGNALLER	2"	-	1 NOS.	600#	-	-
N9	END CLOSURE	14"	11.1 THK	1 NOS.	600#	BW	-
5C	PIG SIGNALLER	-	-	⚠1	EA	AS PER DATA SHEET	
5B	NAME PLATE	8" x 8"	-	1	EA	SS316	
5A	NAME PLATE BKT.	8 THK	-	1	EA	SA 516 GR. 70	
OTHERS							
4G	ANTISPARK GUIDE	25 THK	-	8	EA	NYLON	
4F	PIG TRAY	6 THK.	-	26	KG.	SS 304	
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	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"	-	11.1x8.7 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							

BILL OF MATERIAL

IDNO	ITEM	SIZE	CLASS	RATING/ SCH.	QTY	UNIT	MATERIAL

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

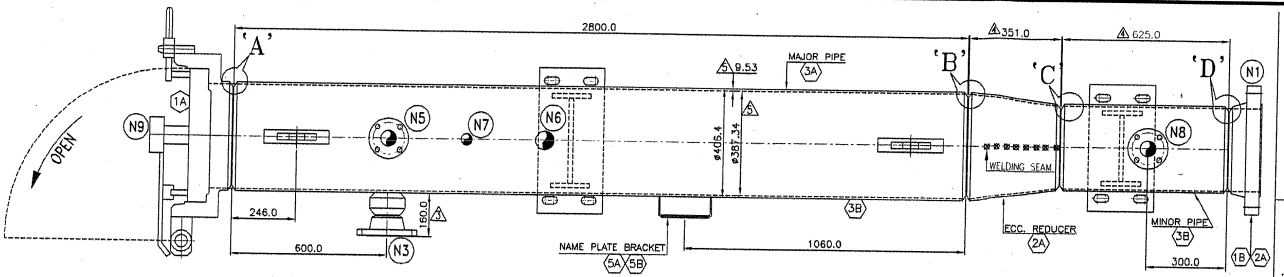
	REV.	DATE	SUBJECT OF REVISION	PREPARED SIGN.	INI.	CHECKED SIGN.	INI.	APPROVED SIGN.
⚠	3	18.06.14	CHANGES AS PER CL. COMMENTS	H.K.P		A.K		D.D
⚠	2	16.05.14	CHANGES AS PER CL. COMMENTS	H.K.P		A.K		D.D
⚠	1	08.02.14	CHANGES AS PER CL. COMMENTS	H.K.P		A.K		D.D
	0	15.12.13	ISSUED FOR APPROVAL	H.K.P		A.K		D.D

CLIENT	OIL INDIA LIMITED
PMC	ENGINEERS INDIA LIMITED
CONTRACTOR	CONTROL PLUS OIL AND GAS SOLUTIONS PVT. LTD.
PROJECT	SUPPLY OF SCRAPER LAUNCHER/RECEIVER — PROJECT JOB 248
TITLE	GENERAL ARRANGEMENT DRAWING (PIG RECEIVER)
SIZE: A3	DRAWING NUMBER: CP-OIL-14"X8"-REC6-13-001-0
SCALE: NTS	REV. 3
SHEET: 1 OF 2	

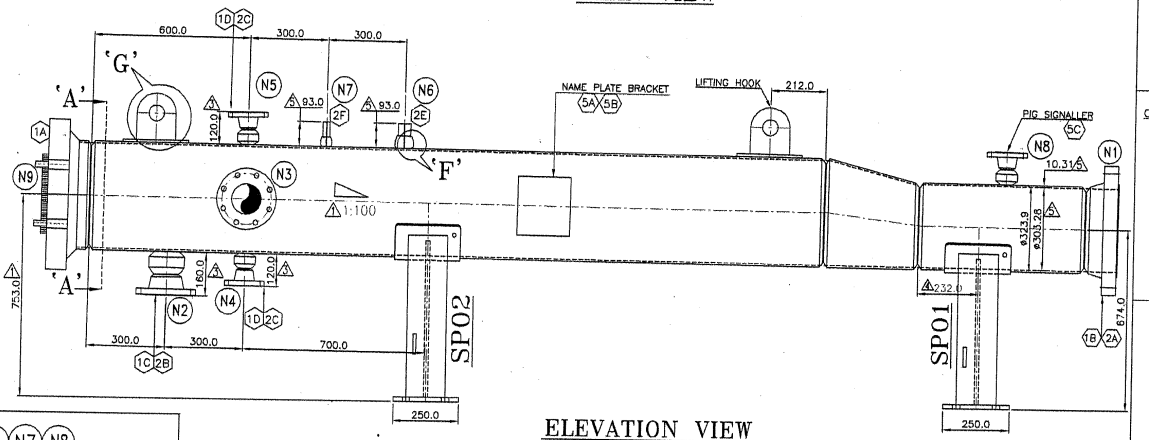
DOCUMENT REVIEW DETAILS
1. Comments / instructions / fabrication marked in RED shall be incorporated.
2. Proceed with fabrication / commissioning as per approved drawing.
3. Resubmit revised document for review.
4. Document is returned as marked, subject to your review.
5. Retained for Records.

Signature with Date: 27/08/2014 12:16:00 — Name of Reviewer: MALLICK DEBASHIS (GM) — Registration No.

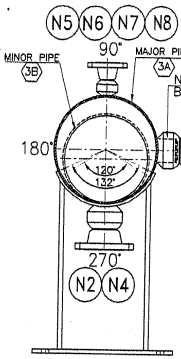
DIGBOI, RECEIVING BARREL



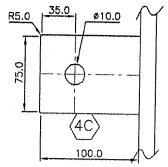
PLAN VIEW



ELEVATION VIEW

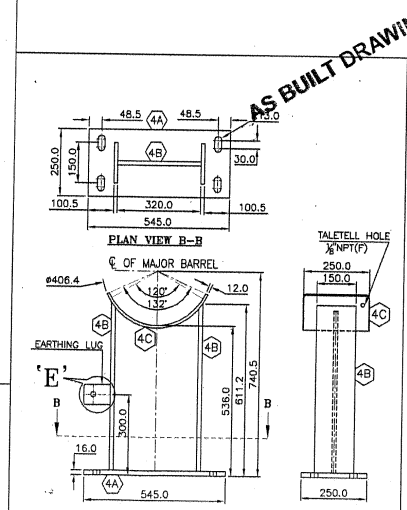


SECTIONAL
ELE. SIDE VIEW A–A

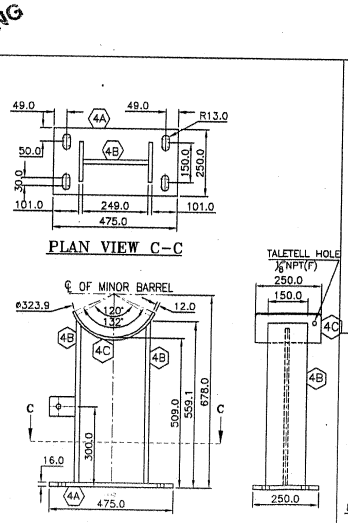


DETAIL–E
(EARTHING LUG,2 NOS.)

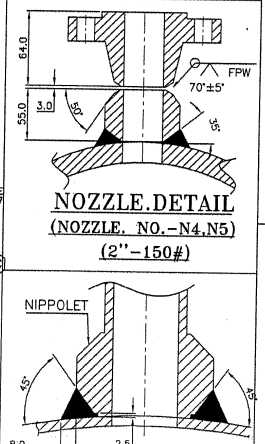
AS BUILT DRAWING



SP02 ⚠

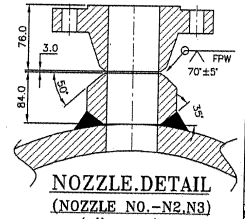


SP01 ⚠

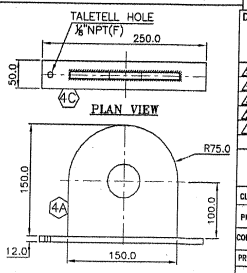


DETAIL–F
(MAJOR PIPE TO NIPPOLET)
(NOZZLE NO.–N6,N7)

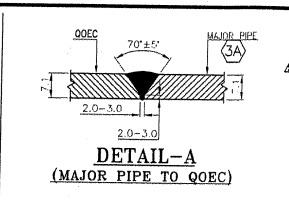
NOZZLE.DETAIL
(NOZZLE. NO.–N4,N5)
(2"–150#)



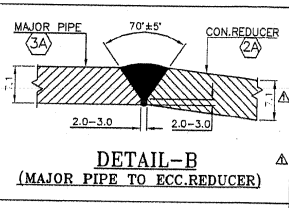
NOZZLE.DETAIL
(NOZZLE NO.–N2,N3)
(4"–150#)



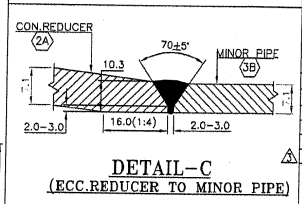
ELEVATION VIEW
DETAIL–G
(LIFTING HOOK,2 NOS.)



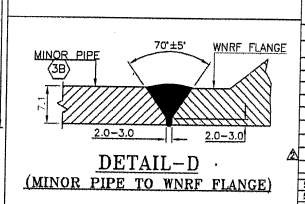
DETAIL–A
(MAJOR PIPE TO QOEC)



DETAIL–B
(MAJOR PIPE TO ECC.REDUCER)



DETAIL–C
(ECC.REDUCER TO MINOR PIPE)



DETAIL–D
(MINOR PIPE TO WNRF FLANGE)

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(℃)	(–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	23.6
TYPE OF SUPPORT	BOTH SLIDING
INSPECTION BY	TPIA/CLIENT
HYDRO STATIC TEST(DURATION)	1 HRS.
EMPTY WEIGHT	675 KG. APPX.
WATER FILLED WEIGHT ⚠	1056 KG. APPX.

⚠ TAG NOS.	DELIVERY LOCATION
006-ML-00-101 (WITH PIG SIGNALLER 006-XXIS- 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 7 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 MENUFACTURER'S STANDARD.
5). ALL INSPECTION & TEST WILL BE CARRIED OUT AS PER CLAUSE NO.5 OF SPECIFICATION NO. 6–71–0031 / EIL APPROVED QAP. NO. :– CPLUS–OIL–LAR–248–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–QF–MR–8050/1001–006
2	DATA SHEET DRAWING NO.:–	A415–000–11–42–DS–05

REFERENCE DRAWING/DOCUMENTS

PIG TROLLEY DRAWING NO.:–	CP–OIL–16"X12"–TRY1–13–002–0
NAME PLATE DRAWING NO.:–	CP–OIL–16"X12"–NPL1–13–008–0

⚠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	2"	–	1 NOS.	150#	–	–
N9	END CLOSURE	16"	7.1 THK	1 NOS.	150#	WNRF	–
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	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		A 105
2D	NIPPOLET	16"x1.5"	–	XXS	1		A 105
2C	WELDOLET	16" x 2"	–	XXS	2	EA	A 105,BW
2B	WELDOLET	16" x 4"	–	XXS	2	EA	A 105,BW
2A	ECC. REDUCERS	16"x12"	–	7.1 THK	1	EA	MSS–SP75 GR.WPHY 42
PIPE FITINGS							
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	2	EA	A 105,WNRF
1A	QOEC	16"	150#	7.1 THK	1	EA	A 694 GR. F–42
FLANGE							

IDNO	ITEM	SIZE	CLASS	RATING	SCH/THICKNESS	QUANTITY	UNIT	MATERIAL

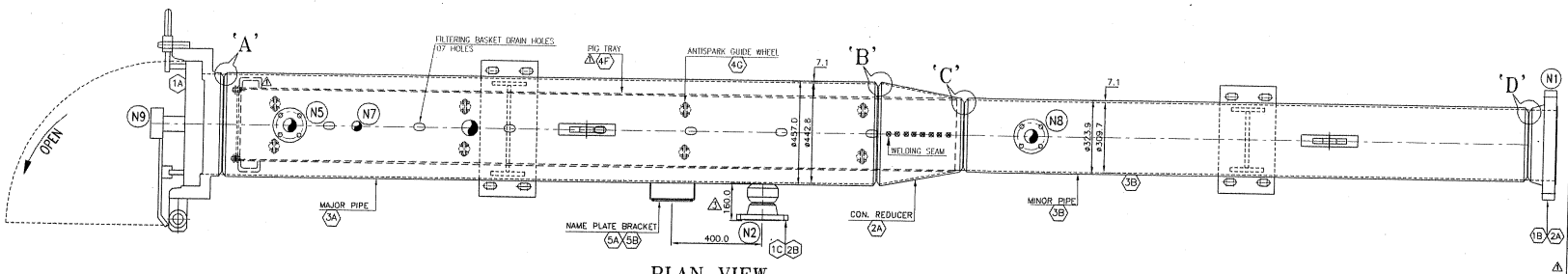
BILL OF MATERIAL

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

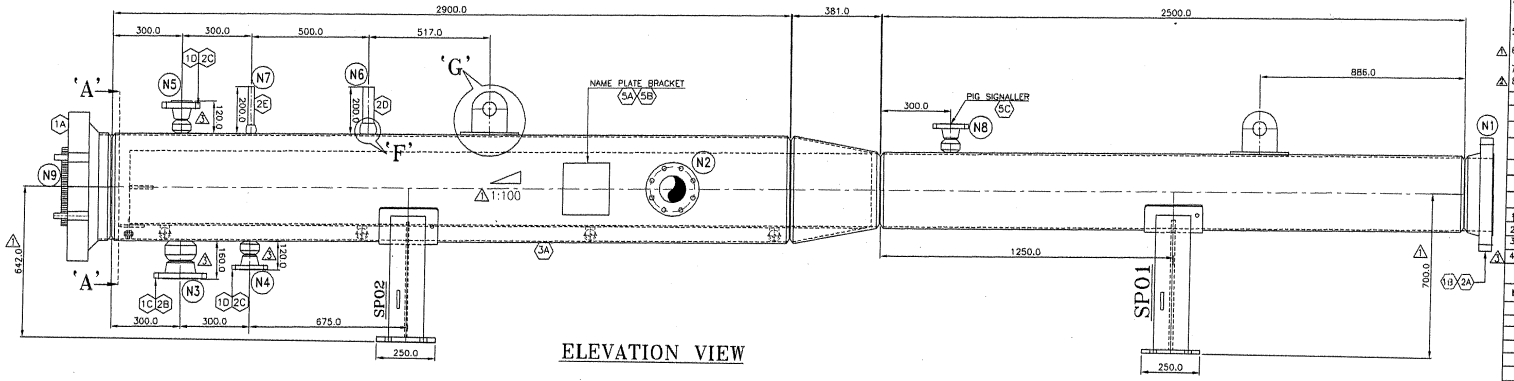
REV.	DATE	SUBJECT OF REVISION	INI.	SIGN.	INI.	SIGN.	INI.	SIGN.
			PREPARED		CHECKED		APPROVED	
⚠ 5	12.06.15	AS BUILT	J.K.P		A.V.M			
⚠ 4	08.05.15	CHANGES AS PER EIL COMMENTS	A.P.P		J.K.P		A.V.M	
⚠ 3	18.08.14	CHANGES AS PER EIL COMMENTS	H.K.P		A.K		R.J.D	
⚠ 2	16.05.14	CHANGES AS PER EIL COMMENTS	H.K.P		A.K		R.J.D	
⚠ 1	28.02.14	CHANGES AS PER EIL COMMENTS	H.K.P		A.K		R.J.D	
0	16.12.13	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 NBPS PROJECT JOB NO: 248
TITLE	AS BUILT DWG FOR TAG NO : 006–ML–00–101 (WITH PIG SIGNALLER 006–XXIS– 3501)
SIZE: A3	DRAWING NUMBER: CP–OIL–16"X12"–LAU1–15–010–5 REV. 5
SCALE: NTS	
SHEET: 1 OF 1	

PS-6, BONGAIGAON LAUNCHING BARREL



PLAN VIEW



ELEVATION VIEW

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"ø ,7.1. 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	962 KG. APPX.
WATER FILLED WEIGHT	1596 KG. APPX.

⚠ TAG NOS.	DELIVERY LOCATION
204-MR-00-101 (WITH PIG SIGNALLER 204-XXI- 4301)	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 MENUFACTURER'S STANDARD.
6. ALL INSPECTION AND TEST WILL BE CARRIED OUT AS PER CLAUSE NO. 5 OF SPECIFICATION NO. 6-71-0031 / EIL APPROVED QAP NO. :- CPLUS-OIL-L&R-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 (LONGEST).

CUSTOMER REFERENCE DRAWING/DATA SHEET NO.

1	PO NO.:-	OIL/C&P/A415-QF-MR-9050/1001-006
2	DATA SHEET DRAWING NO.:-	A415-000-11-42-DS-06

REFERENCE DRAWING/DOCUMENTS

PIG TROLLEY DRAWING NO.:-	CP-OIL-18"X12"-TRA1-13-002-0
NAME PLATE DRAWING NO.:-	CP-OIL-18"X12"-NPL1-13-008-0

⚠ STANDARD SPECIFICATION NO. / ADDENDUM

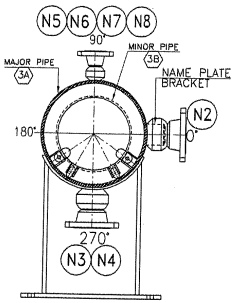
1	6-71-0031 REV. 4	STANDARD SPECIFICATION FOR SCRAPER TRAPS
2	6-78-0001 REV. 4	SPECIFICATION FOR QUALITY MGT. SYSTEM REQUIREMENTS FROM BIDDERS
3	6-78-0003 REV. 0	SPECIFICATION FOR DOCUMENTATION REQUIREMENT FROM SUPPLIERS
4	A415-000-11-42-AD-31 REV. A	ADDENDUM TO STANDARD SPECIFICATIONS FOR SCRAPER TRAP

NOZZLE SCHEDULE

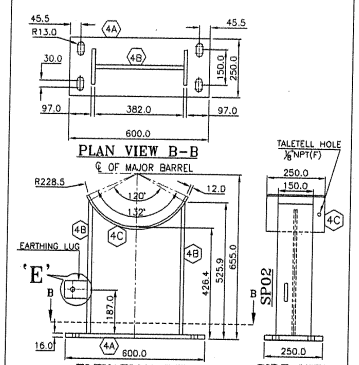
NOZZLE	SERVICE	SIZE	SCH. / THK.	QTY.	CLASS	TYPE	REMARK
N1	CONNECTION FLANGE	12"	7.1 THK	1 NOS.	150#	WNRF	-
N2 ⚠	BYPASS CONNECTION	4"	XXS	1 NOS.	150#	WNRF	-
N3	DRAIN CONNECTION	4"	XXS	1 NOS.	150#	WNRF	-
N4	UTILITY CONNECTION	2"	XXS	1 NOS.	150#	WNRF	-
N5	VENT	2"	XXS	1 NOS.	150#	WNRF	-
N6	PRESS. GAUGE CONN.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

5C	PIG SIGNALLER	-	-	-	⚠1	EA	AS PER DATA SHEET
5B	NAME PLATE	8" x 5"	-	-	1	EA	SS316
5A	NAME PLATE BKT.	8 THK	-	-	1	EA	SA 516 GR. 70
OTHERS							
4G	ANTISPARK GUIDE	25 THK.	-	-	8	EA	NYLON
4F	PIG TRAY	6 THK	-	-	51	KG.	SS 304
4E	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
PIPS							
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#	7.1THK	1	EA	A 694 GR. F-42
FLANGE							

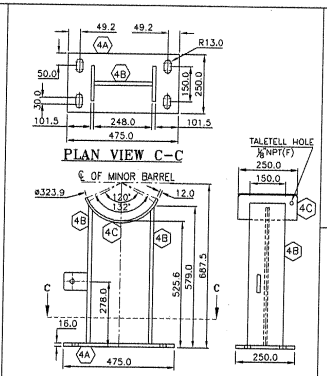
BILL OF MATERIAL



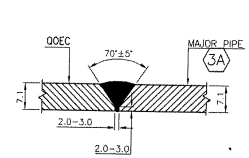
SECTIONAL ELE. SIDE VIEW A-A



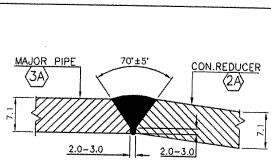
SP02 ⚠



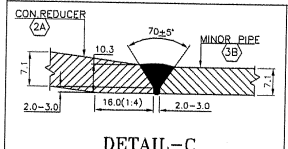
SP01 ⚠



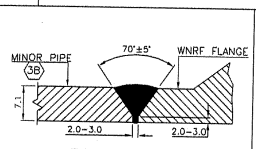
DETAIL-A (MAJOR PIPE TO QOEC)



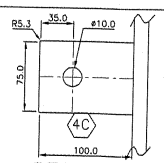
DETAIL-B (MAJOR PIPE TO CON.REDUCER)



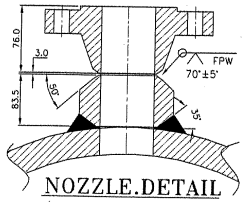
DETAIL-C (CON.REDUCER TO MINOR PIPE)



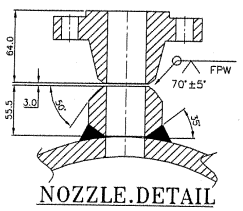
DETAIL-D (MINOR PIPE TO WNRF FLANGE)



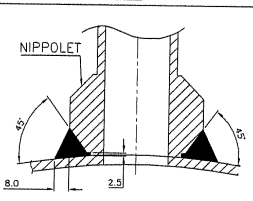
DETAIL-E (EARTHING LUG,2 NOS.)



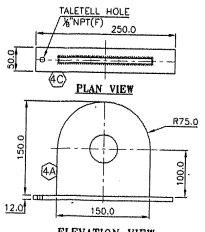
NOZZLE.DETAIL (NOZZLE NO.-N2,N3) (4"-150#)



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



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



DETAIL-G (LIFTING 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- AGATE GRAY COLOR- 100 MICRONS

TOTAL DFT: 300 MICRONS.

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

REV.	DATE	SUBJECT OF REVISION	PREPARED	CHECKED	APPROVED
3	18.06.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	D
2	16.05.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	D
1	08.02.14	CHANGES AS PER EIL COMMENTS	H.K.P	A.K	D
0	22.11.13	ISSUED FOR APPROVAL	H.K.P	A.K	D

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

PROJECT NO. 248

Signature with Date: 27/08/2014 09:04:48 — Name of Reviewer: MALLICK DEBASIS (CS84)

Transmittal No.

BONGAIGAON REFINERY RECEIVING BARREL