



FORWARDING LETTER

Subject: Tender No. TPI00042RF Dtd. 22.12.2022 for hiring of Third Party Inspection services (TPI)

Dear Sir/Madam,

- 1.0 **OIL INDIA LIMITED (OIL)** is a premier National Oil Company engaged in the business of Exploration, Production and Transportation of Crude Oil and Natural gas. A Navratna Company under the Ministry of Petroleum and Natural gas, Government of India (GOI), with its Headquarters at Duliajan, Assam. Duliajan is connected by Air with nearest Airport at Dibrugarh, 45 km away. Rajasthan Field of Oil India Limited (OIL), is engaged in exploration and production of Natural Gas from the Jaisalmer Basin and exploration of Heavy Oil in Bikaner-Nagaur basin of Western Rajasthan in India. OIL has also strategically diversified into Renewable Energy Business and O&M activities. The Field Office of OIL at Jodhpur is well connected by Road, Rail & Air.
- 2.0 In connection to its operations, OIL invites **SHORTLISTED BIDDERS ONLY** to submit their bids through OIL's e-procurement site for the services mentioned below. One complete set of Bid Document for above is uploaded in OIL's e-procurement portal. You are invited to submit your most competitive bid on or before the scheduled bid closing date and time through OIL's e-procurement portal.
- 3.0 Tender has been issued to following short listed bidders only. Other bidders are not eligible to quote against the tender.
- (i) M/s. Lloyds
(ii) M/s. Bureau Veritas
(iii) M/s. RITES
(iv) M/s. I.R.S
(v) M/s. DNV-GL
(vi) ~~M/s. Tuboscope Vetco*~~
- * M/s Tuboscope Vetco shall be allowed after they establish office in India.
- 4.0 For your ready reference, few salient points of the Tender are highlighted below:

	E-Tender No.	:	<u>TPI00042RF Dtd. 22.12.2022</u>
	Type of Bidding	:	SINGLE STAGE COMPOSITE BID SYSTEM – LIMITED TENDER.
	Bid Closing Date & Time	:	29.12.2022 at 11-00 hrs (IST).
	Technical Bid Opening Date & Time	:	29.12.2022 at 13-00 hrs (IST).

Price Bid Opening Date & Time	:	29.12.2022 at 13-00 hrs (IST).
Bid Submission Mode	:	Bids must be uploaded online in OIL's E-procurement portal
Bid Opening Place	:	Office of the GM-C&P, Oil India Ltd., 2A, District Shopping Centre, Saraswati Nagar, Basni, Jodhpur-342005, Rajasthan, India.
Bid Validity	:	Bid should be valid for 30 days from actual bid closing date.
Performance Guarantee	:	Applicable @ 3% of Order value in case contract value exceeding INR 5.00 Lakhs with validity till 3 months from date of expiry of contract
MSE Purchase Preference	:	Applicable
Contact Details	:	Ravi Chaudhary e-mail: ravi_chaudhary@oilindia.in TEL: +919957675554
E-Tender technical Support	:	TEL: 0374- 2804903, 2807171, 2807192, E-MAIL: erp_mm@oilindia.in
Bids to be addressed to	:	GM-C&P, Oil India Ltd., 2A, District Shopping Centre, Saraswati Nagar, Basni, Jodhpur-342005, Rajasthan, India

LIST OF ANNEXURES & APPENDIX

Annexure-I	Scope of Work for TPI, QAP etc.
Annexure-II	Priced Format (available under "Notes and Price bid attachment" tab of e-tender)
Annexure-III	BEC / BRC
Annexure-IV	Copy of PO(s) placed on Supplier
Annexure-V	Special conditions of Contract (SCC)
Annexure-VI	General conditions of Contract (GCC) Note: No Deviation to GCC is acceptable please.
Appendix-I	Acceptance of Scope of Work.

5.0 OIL looks forward to your active participation in the Tender.

Thanking You
Yours Faithfully,
OIL INDIA LIMITED

(Ravi Chaudhary)
Manager (C&P)
For General Manager (C&P)
For Executive Director (RF)

Annexure-I:

Scope of Work for TPI, QAP etc.

Scope of Works

Sl. Nos.	Description of items	Qty.
10	<p>Inspection of MULTIPURPOSE FIRE TENDER WITH CHASIS as per attached QAP</p> <p>a) QAP NO. HT/OIL/MFT/(R1) dtd. 16.11.2022</p> <p>b) Reference Contract No. GEMC- 511687791511675 DATED 17.10.2022 (SAP PO. 7912373)</p> <p>c) Quantity: 1 No.</p> <p>d) Place of inspection: at manufacturer Premises: - M/s. Hindusthan Technologies Pvt. Ltd., Plot No. 5 & 7, Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha</p>	01

SPECIAL NOTES:

a) For item MULTIPURPOSE FIRE TENDER WITH CHASIS

1.0 Broad Scope of Third-Party Inspection:

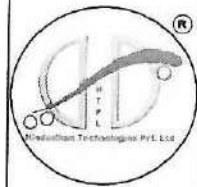
Stage	Scope of Inspection (But not limited to)
First stage	<p>Chassis & Materials Inspection: The successful bidder shall facilitate inspection of chassis by OIL's Engineers along with Third Party Inspection Agency for inspection of the Chassis & other materials to be used for fabrication of the MULTI-PURPOSE FIRE TENDER.</p> <ul style="list-style-type: none"> (i) Chassis Identification & physical verification of chassis No., engine No. etc. (ii) Verification of all documents related to chassis procurement. (iii) Verification of all Documents related to Quality of material of tanks & DCP Vessel. (iv) Thickness measurement of Tanks & DCP Vessel plates and distinct marking of each material by ultrasonic thickness gauge. (v) Physical Identification of material of Tanks, Super structure, under structure etc. (vi) Physical Identification of Components / sub-assemblies identification, before fabrication. (vii) Cutting & marking of material sample for laboratory test (Chemical & Physical). (viii) Verification of all manufacturers/ fabricators document including documents of imported items. (ix) Calibration checking and documents of testing instruments, gauges, tools, accessories etc. (x) Positioning of Tanks & vessels on the chassis.
Second stage	<p><u>After completion of under structure:</u></p> <ul style="list-style-type: none"> (i) Hydro testing of Tanks (ii) Dye penetration test of all weld joints of Tanks (iii) Verification of laboratory test (Chemical & Physical) material Test Certificates (MTC) (iv) Positive Material Identification (PMI) of material (v) Construction of under- structure & super structure (vi) Water & Foam tank and DCP vassal.

	(vii) Documents related to Quality of material of tanks and thickness of tank's plates, radiography inspection report and stamped by recognised third party inspector. (viii) Dimensions check of under structure on chassis, fabricated components as per specifications & approved drawings. (ix) Location for Placement of tank, fittings, lockers, pump, quality of fabrication. (x) Calibration checking of testing instruments, gauges, tools, accessories etc.
Final stage	<u>After completion of panelling, fitment after final painting:</u> (i) Review of observations of First & Second stage inspections. (i) Stability checking of the unit after mounting all equipment and accessories. It should be free from undue rattling and vibration. (ii) Check proper functioning of all types of signal lights, alarms, Bell etc. (iii) Check quality of workmanship. (iv) Check calibration of instruments, gauges, tools, accessories etc. (v) Check operation of various levers, locks, caps, fitment of tanks, linkages, Markings and plumbing work. (vi) Performance test of all the systems, DCP, Pumps, Primer, PTOs, load & stability test of MULTI-PURPOSE FIRE TENDER , (vii) Testing of equipment / tools & Unit (viii) Checking of all relevant documents etc.

- 2.0 **All these scopes of inspection are included in the QAP / ITP (quality assurance plan or inspection test plan) submitted by the manufacturer and approved by OIL. Third party Inspection agency shall carryout the Inspection based on approved drawings & approved QAP.**
- 3.0 The inspection release note of Third part Inspection agency shall clearly stipulate that Material /equipment have been inspected as per approved drawings & approved QAP.
- 4.0 Prior to dispatch of Unit from Successful Bidder's shop, Stage inspection & testing shall be carried out by the Successful Bidder& third party inspection agency in presence of OIL's Engineer(s).
- 5.0 All the tests/inspection for Unit shall be witnessed by Oil India Ltd. representatives along with third party inspection agency.
- 6.0 The TPI report shall be submitted along with the material / documents.

QAPs

QUALITY ASSURANCE PLAN(QAP)



Vendor's Name & Address :
Hindusthan Technologies Pvt. Ltd.
Plot No. 5 & 7, Old Industrial Estate,
Jagatpur, Cuttack-754021, Odisha

GeM Contract No: GEMC-511687791511675
Item Description : Multi Purpose Fire Tender - 1No.

Consignee Name & Address :
Oil India Limited
Baghewal Oil fields,
Tavriwala , Jaisalmer
Rajasthan-345028

QAP Ref. No. : HT/OIL/MFT/(R1)
Date : 16/11/2022



Sl. No.	Item	Characteristics	Type/Method of check	Quantum of checks	Reference Documents	Format of record	P	V	W	Inspection Stage
1	Chassis	Ashok Leyland 1920 , 4800mm WB, BS-VI , cowl chassis	Visual Inspection	100%	P.O. Technical Specification	Documents of chassis provided by chassis dealer	1	2		1st Stage
2	Water Tank	Capacity 4500 ltrs. MOC Tank bottom 5 mm thick SS-316 plate , Side & top 4 mm thick & baffles 3 mm SS-316 plate	Review of MTC	100%	P.O. Technical Specification/ Approved Drawing	Material Test Certificate	3	2		1st Stage
			Visual and dimensional check	100%		Inspection Report	1	2		1st Stage
			DP Test of all welding Joints	100%		Test Reports	1	2		2nd Stage
			Hydraulic Test at 0.5 kg/cm2 for 30 min.	100%		Inspection Report	1		2	2nd Stage
3	PTO unit	Make - VAS , Model- V9+ PTO unit	Visual Check	100%	P.O. Technical Specification/ Approved Drawing	Test certificate	1	2		Final Stage
			Performance Test during pump running	100%		Inspection Report	1		2	Final Stage
4	Main Water Fire Pump	"Firefly" Make , CE & UL listed single Stage, centrifugal of GM const with SS Shaft and capacity 3200 LPM at 10 Kg/Cm2(g) . with automatic reciprocating type primer , Model : MFV-LP-1030	Review of materials provided by OEM (MTC)	100%	P.O. Technical Specification/ Approved Drawing	Manufacturer Test Certificate	3	2		2nd Stage
			Visual & Dimensional check	100%		Inspection Report	1	2		2nd Stage
			Hydraulic Test Certificate of Pumps per OEM standard	100%		Inspection Report	3	2		2nd Stage
			Pump Performance Test	100%		Inspection Report	1		2	Final Stage
5	Auxiliary Ultra High Pressure Pump	"UDOR,Italy" make GAMMA IL150 model High Pressure pump of Capacity 150 LPM @ 100 bar	Visual Check, all document & certificate	100%	P.O. Technical Specification/ Approved Drawing	Inspection Report	1	2		Final Stage
			Performance Test with hose reel & mist gun	100%		Inspection Report	1		2	Final Stage
			Performance of hose reel hose of 60m long with HP Gun -02 Nos	100%		Inspection Report	1		2	Final Stage

QAP

6	Foam Tank	Capacity 1000 ltrs. MOC-SS 316L. Tank bottom plate is of 5 mm 316L shell & top 4 mm thick plate as per specification.	Review of MTC	100%	P.O. Technical Specification / Approved Drawing	Material Test Certificate	3	2		1st Stage
			Visual & Dimensional Check	100%		Inspection Report	1	2		2nd Stage
			DP Test of all Joints including nozzles	100%		Test Reports	1	2		2nd Stage
			Hydraulic Test at 0.5 kg/cm ² for 30 min.	100%		Inspection Report	1		2	2nd Stage
7	Foam Cum Water Monitor	Water cum foam monitor of "Akron" make having capacity 300-1000 GPM(US) UL listed. Monitor Style-3430, Nozzle Style -5160	Review of document	100%	P.O. Technical Specification/ Approved Drawing	Test Certificate	1	2		Final Stage
			Check location & movement	100%		Inspection Report	1		2	Final Stage
			Performance Test	100%		Inspection Report	1		2	Final Stage
8	Control Panel	Operational check of control panel (various gauges , switches etc)	Operational check of control panel	100%	P.O. Technical Specification/ Approved Drawing	Inspection	1		2	Final Stage
9	Pipe fitting	Complete piping /fitting for both water & foam line SS-316/316L seam less pipes.	Review of MTC	100%	P.O. Technical Specification/ Approved Drawing	Material Test Certificate	3	2		2nd Stage
			DP Test of weld joints	100%		Test Reports	1	2		2nd Stage
			10% Radiographic test of all butt joint	10%		RT report	1	2		2nd Stage
			Hydraulic test of piping at 18kg/cm ²	100%		Test Reports	1		2	2nd Stage
			Visual & Dimensional check	100%		Inspection Report	1	2		Final Stage
10	Body works & stowage	Complete body work & stowage fabricated of pressed section of 30x30x1.6mm SS square tube. Outside panelling shall be of 16 SWG Al. plane sheet & inside paneling shall be of 18 SWG Al. plane sheet. Flooring shall be of 2mm thick Al. chequered sheet	Review of raw materials	100%	P.O. Technical Specification/ Approved Drawing	Material Test Certificate	1	2		1st Stage
			Dimensional check	100%		Inspection Report	1	2		2nd Stage
			Proper installation of pumps , tanks	100%		Inspection Report	1		2	2nd Stage
			Check stowage space	100%		Inspection Report	1		2	2nd Stage
			Check outer & inner panelling	100%		Inspection Report	1	2		2nd Stage
			Check Shutter function & make	100%		Inspection Report	1		2	Final Stage
			Quality of painting	100%		Inspection Report	1	2		Final Stage

11	Complete vehicle	Complete multipurpose fire tender with all accessories as per technical specification	Determination of actual GVW	100%	P.O. Technical Specification/ Approved Drawing	Inspection Report	1		2	Final Stage
			Check stability as per IS standard	100%		Inspection Report	1		2	Final Stage
			Road test (Maximum Speed, Turning circle, acceleration, braking ability as specified by OEM of Chassis)	100%		Inspection Report	1		2	Final Stage
			Functional test of all foam making equipment (Proportionating device)	100%		Inspection Report	1		2	Final Stage
			Check permanent & clear marking	100%		Inspection Report	1		2	Final Stage
			Check proper functioning of all electrical items	100%		Inspection Report	1		2	Final Stage
			Check primer deep lift test	100%		Inspection Report	1		2	Final Stage
			Check DFT of painting	100%		Inspection Report	1		2	Final Stage
			Dimensional check of complete vehicle	100%		Inspection Report	1		2	Final Stage
12	DCP System	Cylindrical DCP vessel having capacity of 500 kgs	Review of MTC	100%	P.O. Technical Specification/ Approved Drawing	Material Test Certificate	1		2	1st stage
			Visual and dimensional check	100%		Inspection Report	1		2	2 nd stage
			DP Test of all welding Joints including nozzles and RF pads	100%		Test Reports	1		2	2 nd stage
			100% Radio graphic test of all butt weld of the vessel	100%		Test Reports	3		2	2 nd stage
			Hydraulic Test at 21 bar for 30 min.	100%		Inspection Report	1		2	2 nd stage
			Performance of hose reel hose of 30m long with nozzle -02 Nos	100%		Inspection Report	1		2	Final Stage
13	Accessories	All accessories of foam tender	Visual Inspection of all accessories	100%	P.O. Technical Specification/ Approved Drawing	Inspection Report	1	2		Final Stage
			Operational check of accessories	25%		Inspection Report	1		2	Final Stage



P-Perform By	V-Verify By	W-Witness By							
1-HTPL	2-Owner/TPI	3-Test Lab/OEM							
Prepared by : HTPL	 Signature S S Panda (Director-Technical))		Approved by : OIL		Signature : Name & Designation 				

(सिद्धार्थ सिंह / (SIDDHARTH SINGH))

मुख्य अभियन्ता (अ.से.)
Chief Engineer (FS)
ऑयल इंडिया लिमिटेड/Oil India Limited
(भारत सरकार का उद्यम)/(Govt. of India Enterprise)
राजस्थान क्षेत्र/Rajasthan Field
जोधपुर/JODHPUR

Annexure - I

OIL's Observation on Drawings & Documents including Quality Assurance Plan (QAP)
for Fabrication & Supply of Multipurpose Fire Tender - 1 No. PO No. GEMC-
511687791511675 dtd. 17.10.2022

			should be connected to water tank from top (not bottom). Therefore, bypass line in the drawing should be modified accordingly.
		5.	The actuation mechanism of engagement of PTO & opening of pneumatic valve (water tank to UHP pump) shall be operated simultaneously.
		6.	The location of the Y-strainer & pneumatic valve shall be in such a manner (preferably in side locker) that the cleaning/maintenance operation may be performed without going under the vehicle.
		7.	Pump discharge line shall have Pulsation dampener for smooth flow.
		8.	Good quality of hose (Parker make or equivalent) should be used in UHP system.
D.	GA Mounting of PTO & Shaft	1.	The mechanism for engagement / disengagement of main PTO shall be pneumatic control with mechanical override backup and shall be operated from driver's cabin.
		2.	PTO end seal of the cooler to be made of good quality/ reputed source.
		3.	Spare kit for cooling line seal to be provided.
		4.	PTO, changes in drive line & flanges, yokes needs to be made from standard product and also mention source of supply and provided & approved by OIL before inspection.
		5.	Matching flange, yoke, spider as a spare needs to be provided.
E.	Electric Ckt. Drawing	1.	Master control switch (Emergency battery cutoff switch) shall be provided with battery to isolate the complete (including Negative) power supply of vehicle.
		2.	All the tapping points in the electrical circuit shall be provided with fuse.
		3.	Reverse horn of High Decibel needs to be provided
		4.	02 Nos. Mobile charging points with isolation valve needs to be provided through battery.
		5.	Electrical arrangements should be modified (wherever required) in line with the modification of fabrication/ body
		6.	Spare switches to be provided
		7.	Spare fuses to be provided
F.	Water Tank	1.	Deflector plate needs to be provided Inside filling line
		2.	The overflow pipe at bottom shall be connected with a flexible pipe to avoid water ingress in electrical components.
G.	Foam Tank	1.	Four anchoring points shall be provided at the bottom of tank for mounting on chassis
H.	General Points	1.	The scope of TPI inspection will be based on approved QAP



**OIL's Observation on Drawings & Documents including Quality Assurance Plan (QAP)
for Fabrication & Supply of Multipurpose Fire Tender - 1 No. PO No. GEMC-
511687791511675 dtd. 17.10.2022**

Sr. No.	Document Name	Sr. No.	OIL's Comments
A.	Details of MS Galvanized Sub Frame With Mounting	1.	Metacones to be Provided as per Specification and load requirement. In our previous Fire Tenders Rubber Metacone type 17-0146-60 (10-00361-01) with bolt size M24 was provided. Document attached for your reference.
		2.	Complete design data of metacones and sub frame including the load calculations and metacone quantity sufficiency to be Provided.
B.	GA dwg for MP Fire Tender	1.	Removable window provision on the floor (immediately above PTO location for maintenance and inspection activities needs to be provided.
		2.	Provision of the spare wheel should be located at a suitable place under the chassis.
		3.	Shutter needs to be provided at the back side of fire tender to cover fire pump & its connections to avoid any dust deposition.
		4.	Suitable holders/ arrangements needs to be provided in the equipment lockers to place/ secure equipment properly.
		5.	Spot light to be fitted at the back side of cabin
		6.	Removable type provision for inspection/ maintenance of water tank shall be made towards pump side
		7.	Wheel ring (Metal) to be provided in both side of front wheels
		8.	Suitable Jaw & Pint type Towing Hook shall be provided at rear side of vehicle
		9.	Access ladder needs to be given on the both side of vehicle
		10.	Suitable metallic hanger/ clamps needs to be provided for holding the UHP Fog Gun.
		11.	Additional stoppers for shutters needs to be fixed at suitable location for limiting the opening window of shutter.
		12.	Manual & electric throttle both needs to be provided at rear side of vehicle.
C.	Flow Diagram	1.	UHP Hose reel drum shall be provided with frictional brake for locking at suitable position and have geared winding system.
		2.	Pressure gauge needs to be provided near each hose reel drum to monitor the pressure during operation.
		3.	The outlet of cooling line near front LHS of vehicle to be provided with an additional line through a valve to divert the water from cooling line to the water tank during firefighting for a prolonged time.
		4.	Pump to water tank by pass line through un-loader valve



OIL's Observation on Drawings & Documents including Quality Assurance Plan (QAP)
for Fabrication & Supply of Multipurpose Fire Tender - 1 No. PO No. GEMC-
511687791511675 dtd. 17.10.2022

		& Purchase order
	2.	PMI & ultrasonic thickness gauge shall be available during inspection
	3.	All instrument controls & valves shall be identified with properly itched metallic name plates.
	4.	All valves and hoses inlet and outlet shall also be identified by suitable metallic Nameplates.
	5.	AUDCO/ L&T make SS ball valve shall be used wherever applicable.
	6.	Sun visor film needs to be fixed on the front glass.
	7.	Water & Foam piping shall be of SS-316L grade
	8.	Stainless Steel lines joints - The bolting (studs, bolts& nut) at flanges shall be of SS-316L with SS washers.
	9.	All the lockers shall be illuminated by MCD make LED lightning system & capable of being automatically switched, 'ON' and 'OFF' by the opening of shutters.

Following document needs to be submitted:-

1. The design of sub frame & mounting.
2. DCP Control panel GA Drawing (Resubmitted)



(सिद्धार्थ सिंह) (SUDDHARTH SINGH)

मुख्य अभियंता (अ.सं.)

Chief Engineer (FS)

ऑयल इंडिया लिमिटेड/Oil India Limited

(भारत सरकार का उद्यम)/(Govt. of India Enterprise)

राजस्थान क्षेत्र/Rajasthan Field

जोधपुर/JODHPUR



Hindusthan
Technologies Pvt. Ltd.



Regd. Office : AT- SHIVAPURI, (NIMPUR), P.O - JAGATPUR, DIST.- CUTTACK, PIN- 754021, ODISHA

Work : PLOT NO - 5 & 7, OLD INDUSTRIAL ESTATE, JAGATPUR, CUTTACK - 754021, ODISHA

Ph.: (0671) -2491348, (O/W), Fax : (0671) 2490348

E-mail.: admin@hindusthantechnologies.com, website.: www.hindusthantechnologies.com

GSTIN:21AACCH5297D1ZU

CALCULATION SHOWING POWER & TORQUE AVAILABILITY FROM THE ENGINE TO BE SUPPLIED AND THE REQUIREMENT OF OUR PUMP DELIVERING THE DESIRE OUTPUT (WATER PUMP)

A POWER CALCULATION

1 Chassis Engine Power supplied by : 200

2 Requisite pump output : 3200 lpm @ 10 kgf/cm²

3 Overall efficiency of the pump : 65%

Shaft horse power (SHP) required
$$\frac{\text{Specific weight of liquid} \times \text{Pump discharge} \times \text{Gross head}}{746 \times \text{Pump overall efficiency}}$$
 to drive the pump =

Here, Specific weight of liquid= 10000 Kg/m³(Water)

Pump discharge= 3200lpm = 0.0533m³/sec

Gross head= 100 mtr

a) So SHP of the pump =
$$\frac{10000 \times 0.0533 \times 100}{746 \times 0.65}$$

SHP = 108 HP

b) Considering transmission efficiency of the PTO to be supplied

as 85% power input to PTO = 108/0.85

= 127 HP

Here power available by the engine is 200HP which exceeds the pump requirement by (200-127)HP or 73 HP

B TORQUE CALCULATION

1 Max. torque developed by the engine = 700 Nm

2 1st gear ratio as per chassis manufacturer = 8.97:1

3 Max. output (engine) torque available at the gear = 700x8.97=6729 Nm

4 Considering FOS 30% , torque required = 8162Nm

4 Torque that VAS V9 PTO can handle = 13,800 Nm

As the capacity of PTO is higher than the max. available torque developed by the engine, so PTO is safe to handle the torque on demand

Siddharth Singh
20/12/2022

[Signature]

For Hindusthan Technologies Pvt. Ltd.

(सिद्धार्थ सिंह / (SIDDHARTH SINGH))

मुख्य अभियंता (अ.से.)

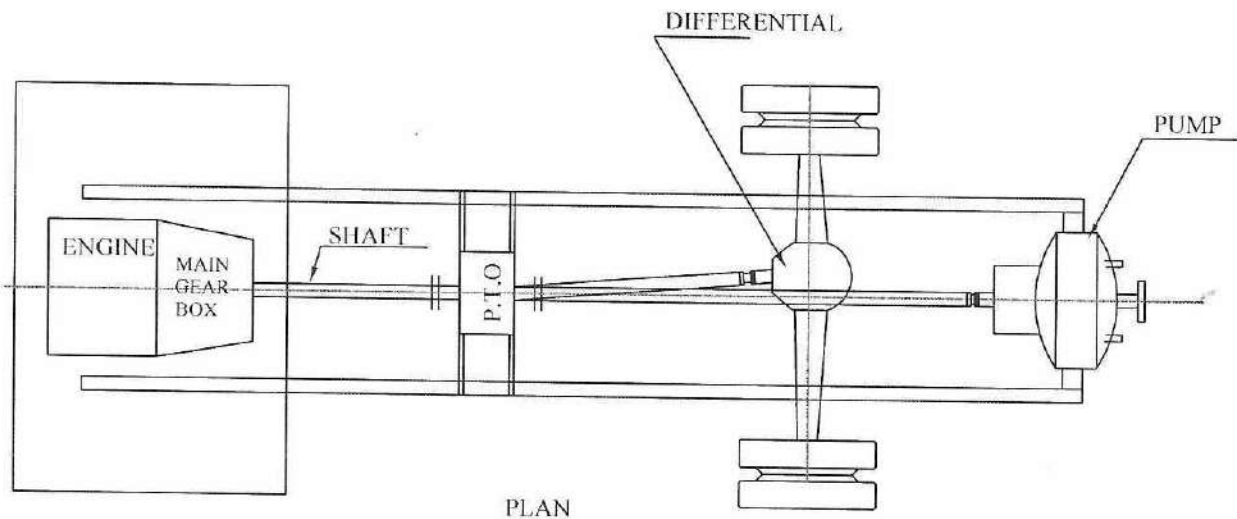
Chief Engineer (FS)

ऑयल इंडिया लिमिटेड/Oil India Limited

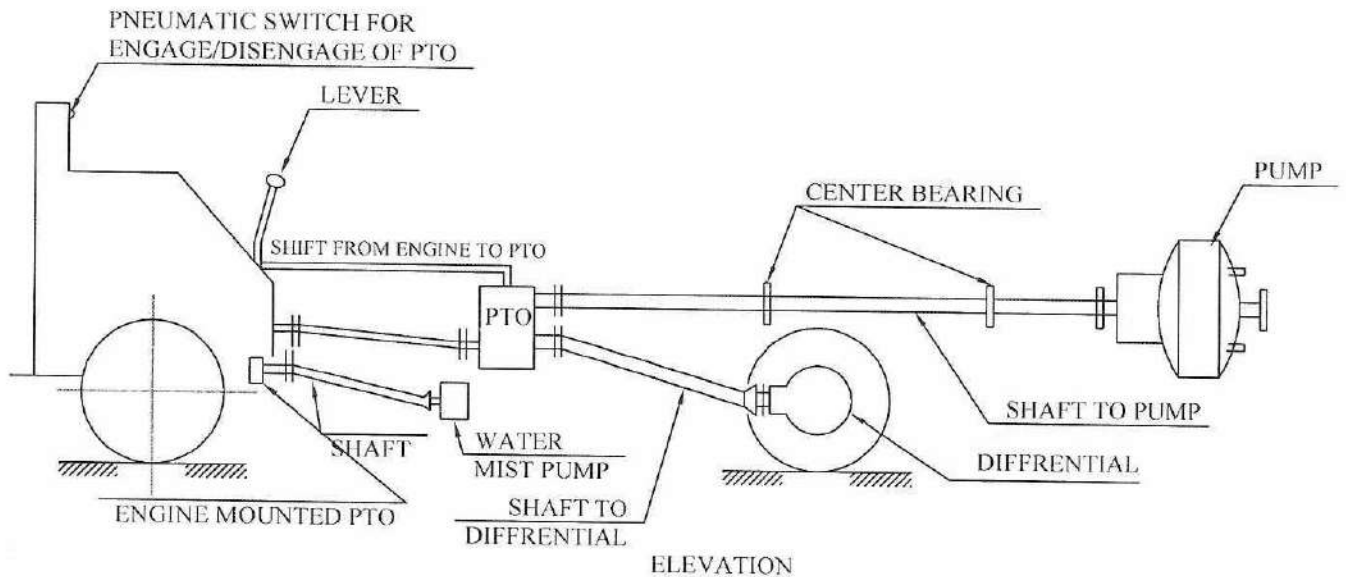
(भारत सरकार का उद्योग)/(Govt. of India Enterprise)

राजस्थान क्षेत्र/Rajasthan Field

जोगपुर/JODHPUR



PLAN



THIS DRAWING IS THE PROPERTY OF M/S HTPL & MUST NOT BE REPRODUCE OR COPIED WITHOUT PERMISSION IN WRITING.

(Signature)

(सिद्धार्थ सिंह / (SIDDHARTH SINGH))

मुख्य अभियन्ता (अ.रे.)

Chief Engineer (FS)

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राजस्थान क्षेत्र/Rajasthan Field

जोधपुर/JODHPUR



(AN ISO 9001:2015 CERTIFIED COMPANY)

Hindusthan

Technologies Pvt. Ltd.

Regd. Office: AT SHIVAPUR, (NIMPUR) P.O. - JAGATPUR DIST - CUTTACK PIN-754021 ODISHA

Work PLO: NO. 5 & 7 OLD INDUSTRIAL ESTATE JAGATPUR CUTTACK 754021 ODISHA

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GSTIN: 21AACCH5297D1ZU



CLIENT NAME: OIL INDIA LIMITED

TITLE: DETAILS OF PUPM PTO LAYOUT ARRANGEMENT

DRN BY	CHK BY	DATE	SCALE	DRAWING NO
SSP	BBP	2/11/2022	NTS	HTPL/OIL/ PTOLAYOUT

V9+ (PLUS)

VERTICAL PTO GEARBOX FOR 250 HP VEHICLES

Drive Line Design Torque : 13,800 NM
(Recommended For Vehicle Capacity Upto 250 HP)

Full Forged 5 (DOUBLE ROW OUTPUT) Bearing Double
Housing 65mm Drive Line With NEW STUB Design

Big And Wide Side Cover for Easy Maintenance
Oil Level Indicator, Oil Fill Cap And Oil Drain Plug
Are Provided On Same Side

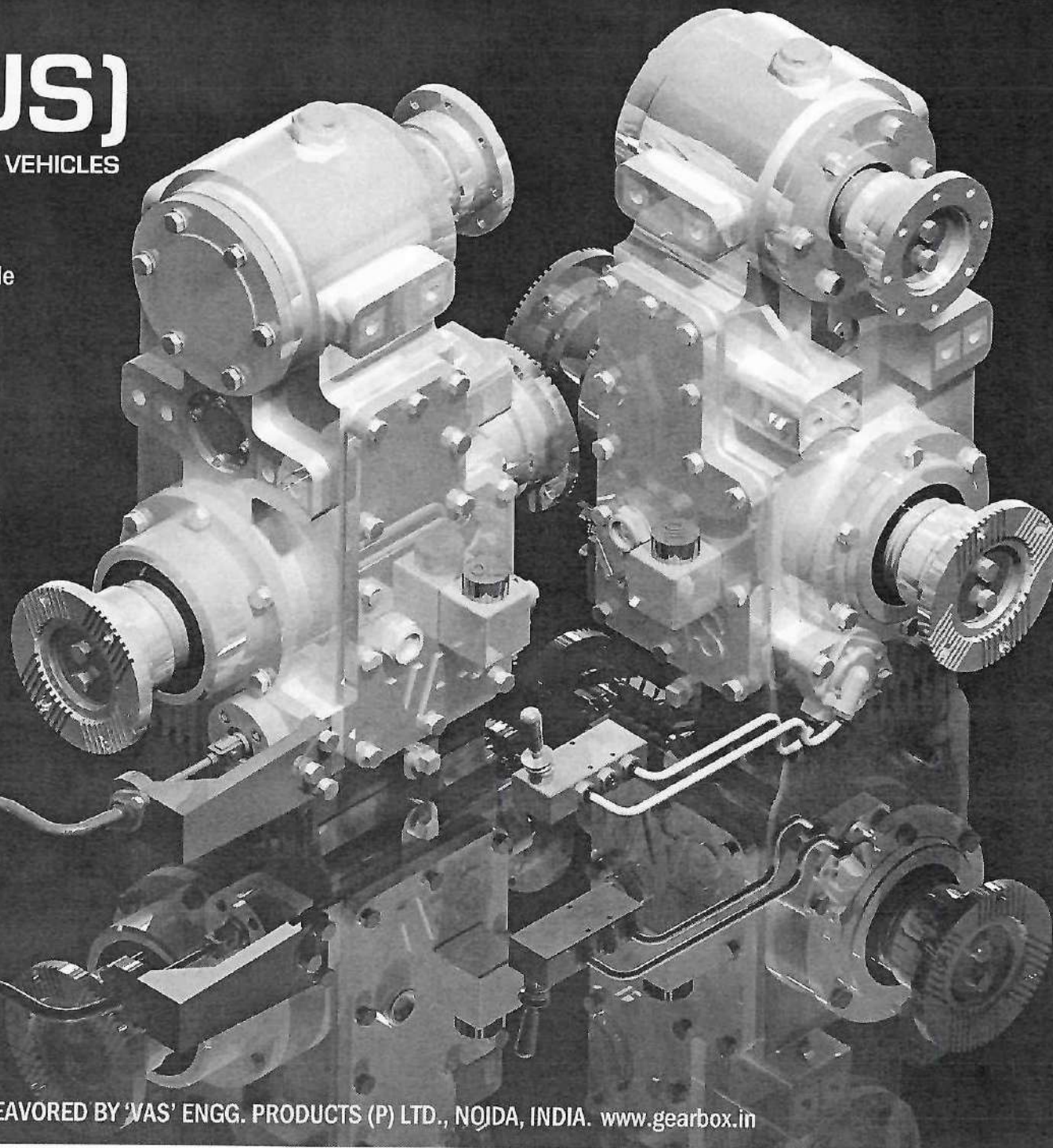
In-Line Water Cooling Coil Assy For Easy Installation
Of Cooling System

Supplied with complete Mechanical Control Linkage
(MCL) System, Shifter Locking Screw Provided On
Main Body Frame

Standards : Magnetic Oil Drain Plug,
Double Lip (Imported Oilseals), Air Breather,
Oil Level Indicator.

Gear Ratios 1:1.31, 1:1.48
(Additional Ratios On Demand)

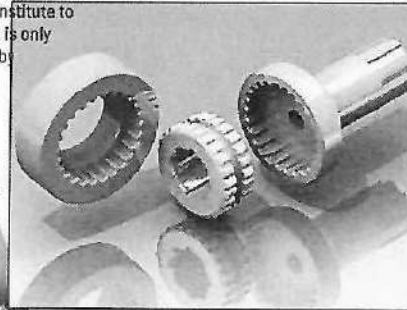
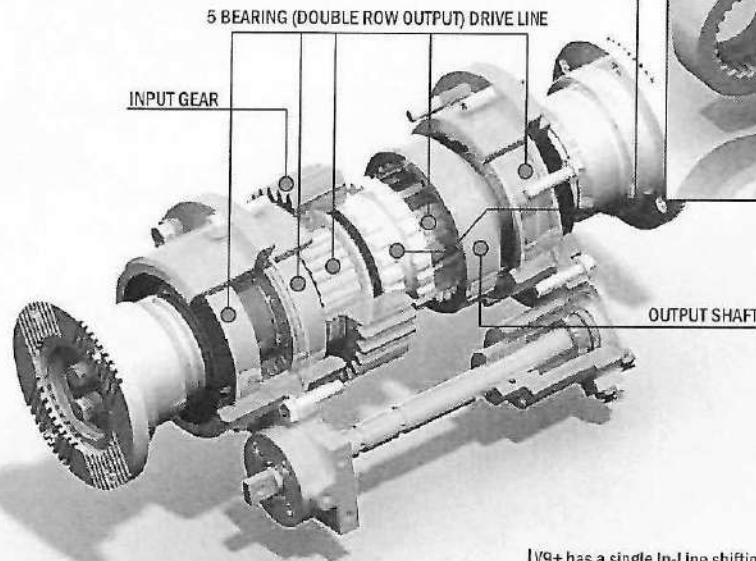
Main Body In Both
Aluminum Or FE Casting



MODEL V9+ IS ANOTHER FINE INNOVATION ENDEAVORED BY 'VAS' ENGG. PRODUCTS (P) LTD., NOIDA, INDIA. www.gearbox.in

NEW STUB DESIGN

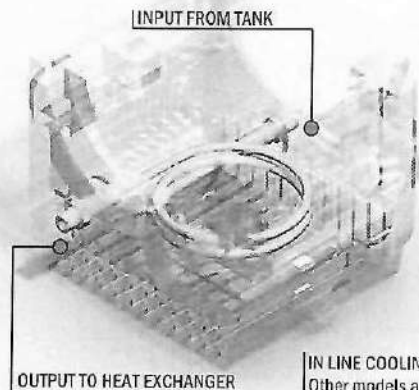
Old Sleeve Design is replaced with a STUB that shifts between output shaft and input gear shifting the mode of the gearbox (Drive Line / PTO). Clearances have to be left in Sleeve Design as the Sleeve used to make contact with the outer diameter of components but since STUB makes contact with the internal diameter of components, no major clearances have to be left which constitute to SMOOTH SHIFTING. Sleeve used to be guided and held by the shifter fork but STUB is only guided by fork but is held by shaft hence it further reduces sound levels generated by clearances left in Sleeve design for sleeve shift.



GEARS : AVAILABLE OPTIONS
SPUR SHAVED
SPUR GRINDED
HELICAL SHAVED
HELICAL GRINDED

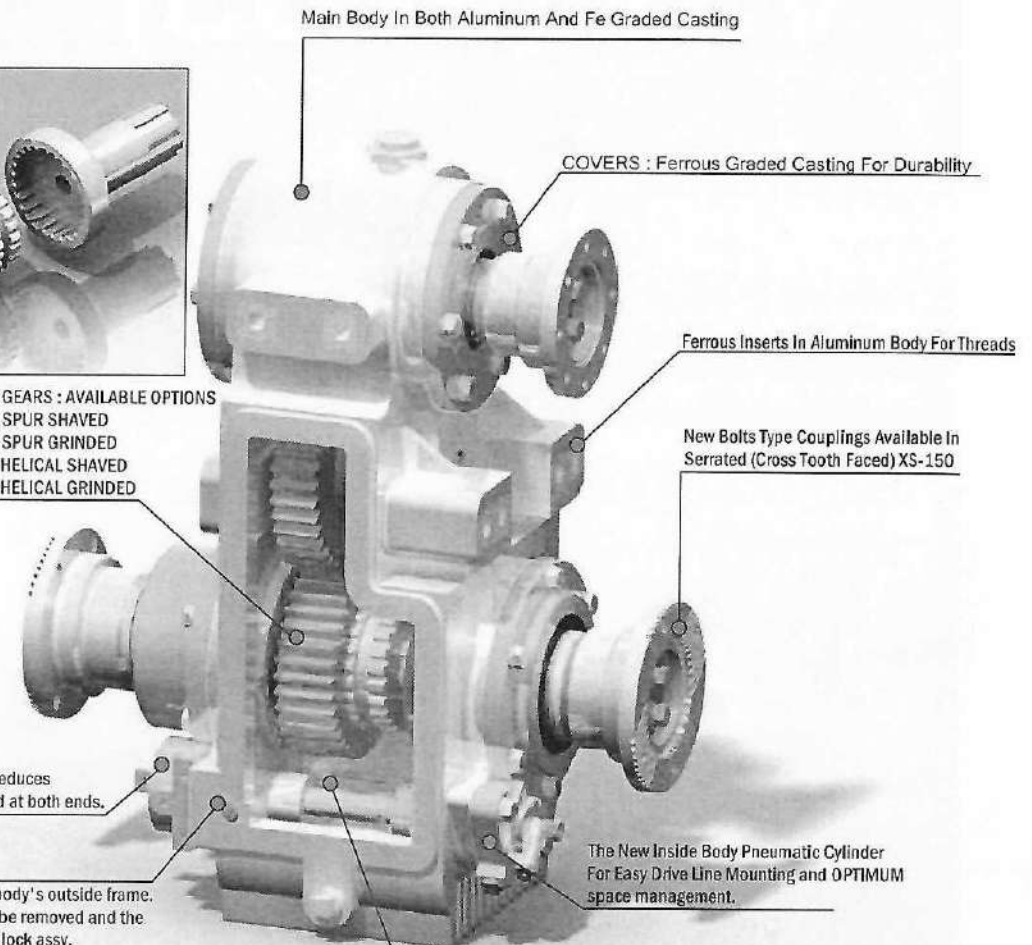
V9+ has a single In-Line shifting arrangement with Mechanical Linkage on input side and Pneumatic Cylinder on the rear side, this further reduces the shifter locking problems as the shaft is guided at both ends.

Shifter locking screw is provided in the main body's outside frame. In case of shifter slippage, the side cover can be removed and the screw can be tightened. The entire ball spring lock assy. can be replaced by simply removing the cover. Other models in the market have their ball spring assy inside main input shaft and gear, the same cannot be tightened or replaced as the entire drive line assy has to be opened first.



IN LINE COOLING COIL

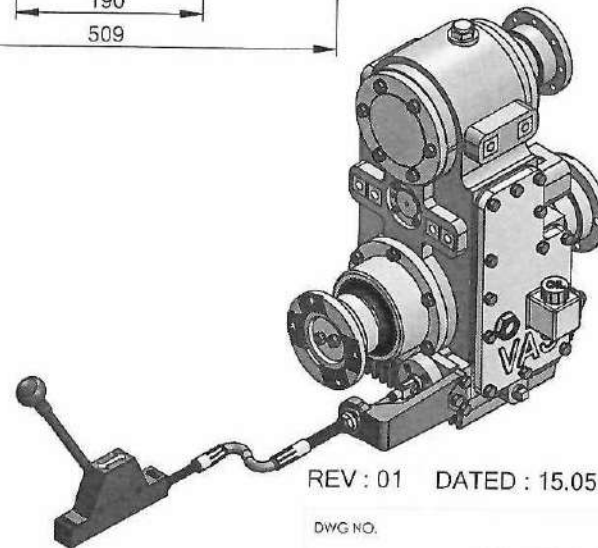
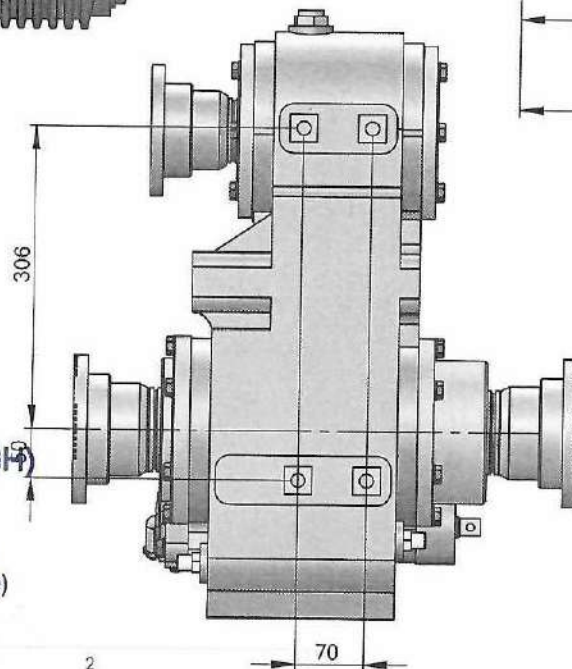
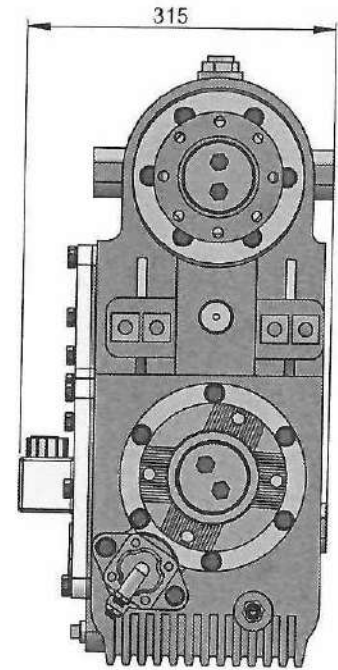
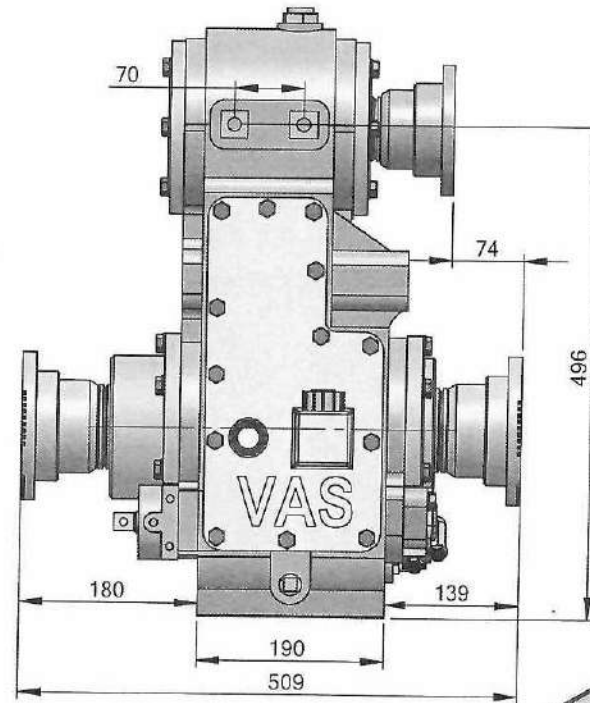
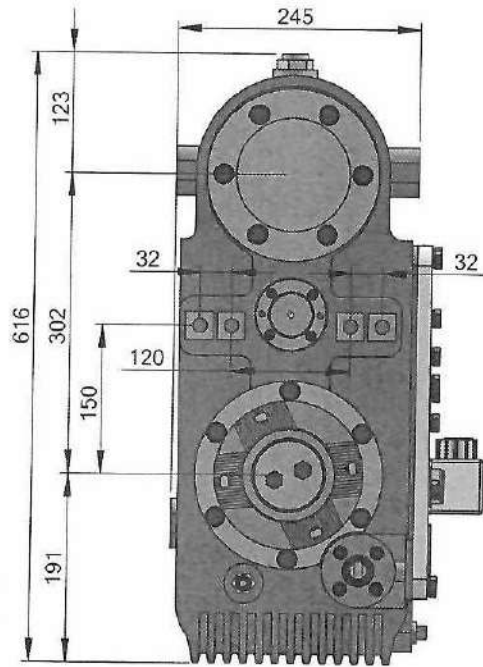
Other models available in the market have both input and output connectors on the rear side of the PTO. V9+ has input on the rear side and output on the front side as water from tank is fed to the cooling coil assy of the gearbox thru rear and then the output is taken from front side of PTO to the heat exchanger placed near the engine. This reduces unnecessary bending of cooling pipes.



FVG (FULL VIEW GEARBOX)

BIG and WIDE side cover is provided in our gearbox on the conductor side of the chassis. Even when removed, the entire Assy. of the gearbox remains in the main body only. Entire power take off operation can be observed while this cover is removed and real time shifting can be seen. This way, yearly inspection of internals such as gears, shafts, shifters etc can be easily conveniently conducted without removing the PTO from chassis or without removing any bearing housings or covers

(SIDDHARTH SINGH)
मुख्य अभियंता (अ.से.)
Chief Engineer (FS)
KAS Engg. Products (P) Ltd., NOIDA, INDIA.
Model Code: V9+ (BLUS), Dated: 03/09/2011
ऑयल इंडिया लिमिटेड
भारत सरकार का उपकरण
राजस्थान क्षेत्र
जोधपुर/JODHPUR



REV : 01 DATED : 15.05.2013

DWG NO.

V9+ SCHEMATIC

WEIGHT:

SCALE 1:7

SHEET 1 OF 1

(सिद्धार्थ सिंह / SIDDHARTH SINGH)
मुख्य अभियन्ता (अ.से.)
Chief Engineer (FS)
ऑयल इंडिया लिमिटेड/Oil India Limited
(भारत सरकार का उद्यम)/(Govt. of India Enterprise)
राजस्थान क्षेत्र/Rajasthan Field
जोधपुर/JODHPUR

A4

1

2

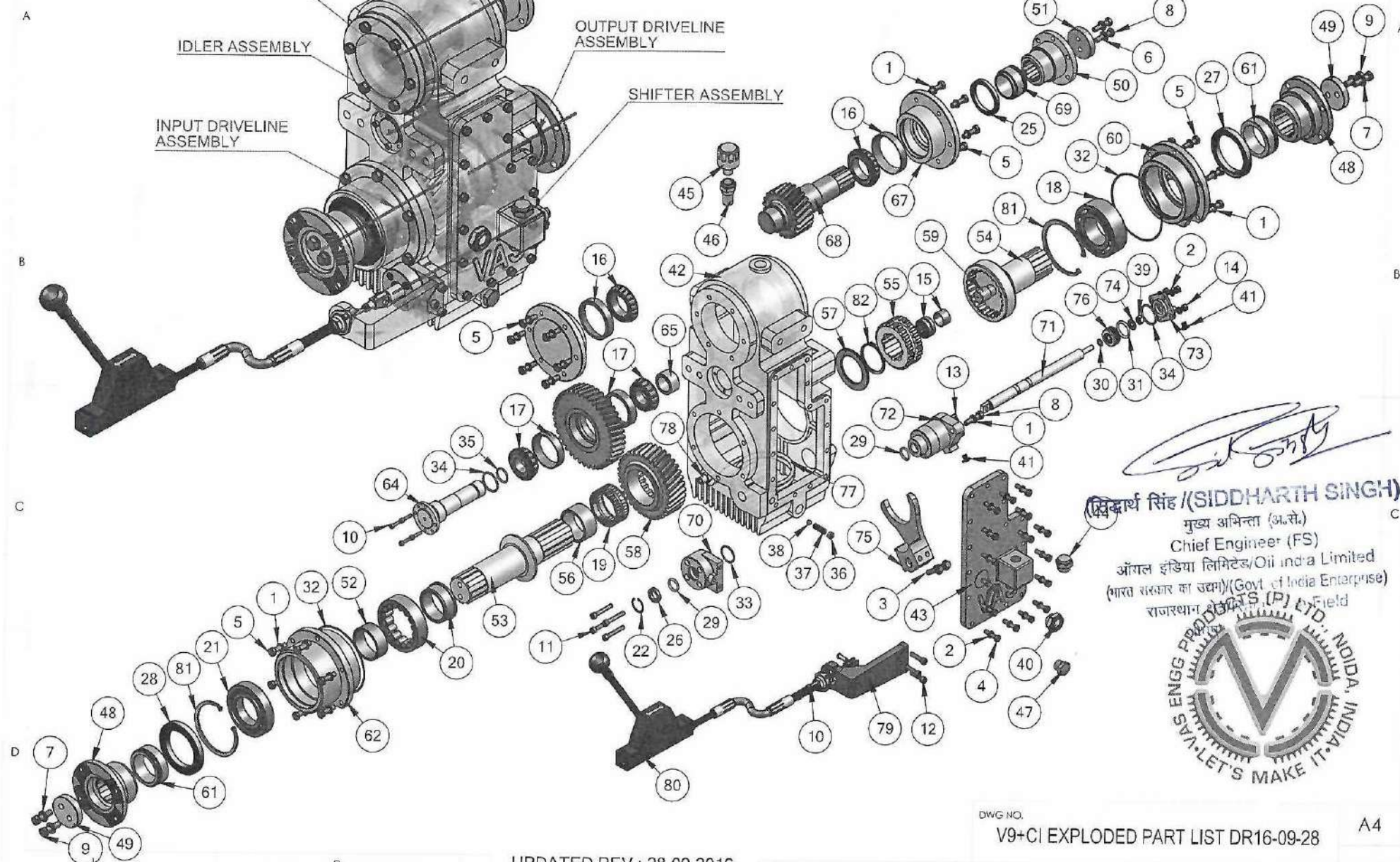
3

4

5

6

VAS Engg. Products (P) Ltd., Noida, NCR, India. VAS-DLP-V9+CI EXPLODED PART LIST DR16-09-28
www.gearbox.in, +91-9910071850, +91-120-4312775, +91-120-4312776, vasengg@gmail.com



DWG. NO.

V9+CI EXPLODED PART LIST DR16-09-28

A4

UPDATED REV : 28.09.2016

WEIGHT:

SCALE:1:10.3

SHEET 1 OF 2

	1	2	3	
	B.No	P.No	PART NAME	ME PN WHERE LOCATED
	1	16002	SPRING WASHER	24 26 12-DRIVELINE COVER, 12-PTO COVER, 2- CYLINDER
	2	16001	SPRING WASHER	16 20 16-SIDE COVER, 4-CYLINDER
	3	16010	BOLT HEX	2 2 FORK BOLT
	4	16206	BOLT HEX	16 16 SIDE COVER
A	5	16009	BOLT HEX	24 24 12-DRIVELINE COVER, 12-PTO COVER
	6	16007	PLAIN WASHER	2 2 PTO COUPLING
	7	16066	PLAIN WASHER	4 4 DRIVELINE COUPLINGS
	8	16011	BOLT HEX HALF THREAD	2 4 2-PTO COUPLING, 2-CYLINDER
	9	16067	BOLT HEX HALF THREAD	4 4 DRIVELINE COUPLINGS
	10	16006	BOLT ALLEN	6 6 2-MCL, 4-IDLER SHAFT
	11	16003	BOLT ALLEN	4 4 SHIFTER CAP
	12	16005	BOLT ALLEN	3 3 MCL
	13	16257	CYLINDER STUDD	0 4 CYLINDER
	14	16258	NUT	0 4 CYLINDER
	15	16472	BEARING NEEDLE ROLLER	1 1 BETWEEN INPUT & OUTPUT SHAFT
	16	16473	BEARING SR TAPER ROLLER	2 2 PTO ASSEMBLY
	17	16474	BEARING SR TAPER ROLLER	2 2 IDLER GEAR
	18	16475	BEARING DR BALL	1 1 OUTPUT SHAFT
	19	16476	BEARING NEEDLE ROLLER	1 1 BENEATH INPUT GEAR
B	20	16477	BEARING SR CYLINDERICAL ROLLER	1 1 INPUT SHAFT
	21	16478	BEARING SR BALL	1 1 INPUT HOUSING COVER
	22	16023	CIRCLIP INTERNAL	1 1 SHIFTER CAP
	23	16479	CIRCLIP INTERNAL	2 2 1-INPUT HOUSING COVER, 1-OUTPUT COVER
	24	16480	CIRCLIP EXTERNAL	1 1 BESIDES INPUT GEAR
	25	16218	OILSEAL	1 1 PTO ASSEMBLY
	26	16026	OILSEAL	1 1 SHIFTER CAP
	27	16481	OILSEAL	1 1 OUTPUT COVER
	28	16482	OILSEAL	1 1 INPUT HOUSING COVER
	29	16027	O-RING	1 2 1-SHIFTER CAP, 1- CYLINDER
	30	16260	O-RING	0 1 BETWEEN SHIFTER SHAFT & PISTON
	31	16259	O-RING	0 1 PISTON
	32	16483	O-RING	2 2 1-INPUT HOUSING COVER, 1-OUTPUT COVER
	33	16028	O-RING	1 1 SHIFTER CAP
	34	16220	O-RING	1 2 1- IDLER SHAFT, 1-CYLINDER CAP
C	35	16484	O-RING	1 1 IDLER SHAFT
	36	16029	SCREW	1 1 V9+ BODY (BESIDES SIDE COVER)
	37	16063	SPRING	1 1 V9+ BODY (BESIDES SIDE COVER)
	38	16031	BALL 10MM	1 1 V9+ BODY (BESIDES SIDE COVER)
	39	16261	SEAL NUT	0 1 SHIFTER ASSEMBLY
	40	16033	OIL LEVEL 3BY4 BSP	1 1 SIDE COVER

	4	5	6	
	B.No	P.No	PART NAME	ME PN WHERE LOCATED
	41	16441	CAP SCREW PLASTIC 1BY4 BSP	0 2 SHIFTER ASSEMBLY
	42	16486	V9+ BODY CI PNEUMATIC 148	1 1 -
	43	16487	V9N COVER SIDE	1 1 -
	44	16229	TOP NUT HEX	1 1 SIDE COVER
	45	16383	AIR BREATHER T1	1 1 V9+ BODY (TOP SIDE)
	46	16230	TOP NUT AIR BREATHER	1 1 V9+ BODY (TOP SIDE)
	47	16036	DRAIN PLUG MAGNETIC 1BY2 BSP	1 1 V9+ BODY (BELOW SIDE COVER)
	48	16079	COUPLING XS150 H6C	2 2 DRIVELINE COUPLINGS
	49	16080	LOCK PLATE H6C V9N	2 2 DRIVELINE COUPLINGS
	50	16271	COUPLING TATA 6H PCD 101.6 V6+ PTO	1 1 PTO COUPLING
	51	16276	LOCK PLATE V3+ TA6H	1 1 PTO COUPLING
	52	16488	SPACER	1 1 BETWEEN BEARINGS ON INPUT SHAFT
	53	16489	V9+ SHAFT INPUT	1 1 DRIVELINE ASSEMBLY
	54	16490	V9+ DR SHAFT OUTPUT	1 1 DRIVELINE ASSEMBLY
	55	16085	H6C STUB SHIFTER	1 1 DRIVELINE ASSEMBLY
	56	16491	SPACER	1 1 BENEATH INPUT GEAR
	57	16492	SPACER	1 1 BESIDES INPUT GEAR
	58	16493	GEAR STUB 34T HELICAL	1 1 DRIVELINE ASSEMBLY
	59	16089	H6C PIN OUTPUT SHAFT	1 1 BETWEEN INPUT & OUTPUT SHAFT
	60	16494	COVER B-OILSEAL V9+	1 1 DRIVELINE ASSEMBLY
	61	16495	SPACER OILSEAL	2 2 BESIDES DRIVELINE COUPLINGS
	62	16496	COVER B-HOUSING V9+	1 1 DRIVELINE ASSEMBLY
	63	16497	GEAR IDLER 40T HELICAL	1 1 IDLER ASSEMBLY
	64	16498	V9 HEL PIN SHAFT	1 1 IDLER ASSEMBLY
	65	16499	SPACER IDLER GEAR	1 1 BESIDES IDLER GEAR
	66	16500	COVER B-CLOSED V9N PTO	1 1 PTO ASSEMBLY
	67	16501	COVER B-OILSEAL V9N PTO	1 1 PTO ASSEMBLY
	68	16502	SHAFT GEAR PTO V9N	1 1 PTO ASSEMBLY
	69	16503	SPACER OILSEAL	1 1 PTO ASSEMBLY
	70	16042	CAP SHIFTER BRACKET TYPE	1 1 SHIFTER ASSEMBLY
	71	16505	V9+ SHAFT SHIFTER PNEUMATIC	1 1 SHIFTER ASSEMBLY
	72	16506	V9+ CYLINDER INSIDE HEAD	0 1 SHIFTER ASSEMBLY
	73	16507	V9+ CYLINDER INSIDE REAR	0 1 SHIFTER ASSEMBLY
	74	16264	PISTON WASHER	0 1 SHIFTER ASSEMBLY
	75	16508	FORK V9N	1 1 SHIFTER ASSEMBLY
	76	16263	PISTON	0 1 SHIFTER ASSEMBLY
	77	16509	V9+ COIL	1 1 COOLING ASSEMBLY
	78	16233	V1S ADAPTOR 3BY8 BSP COOLING COIL	2 2 COOLING ASSEMBLY
	79	16061	VAS LEVER BRACKET XL033	1 1 MCL
	80	16062	MCL ASSY	1 1 MCL
	TOTAL		173	200

ABBREVIATIONS:- B.No : BALLOON SERIAL NUMBER, P.No : PART NUMBER, ME : MECHANICAL, PN : PNEUMATIC

VAS Engg. Products (P) Ltd., Noida, NCR, India. VAS-DLP-V9+CI EXPLODED PART LIST DR16-09-22

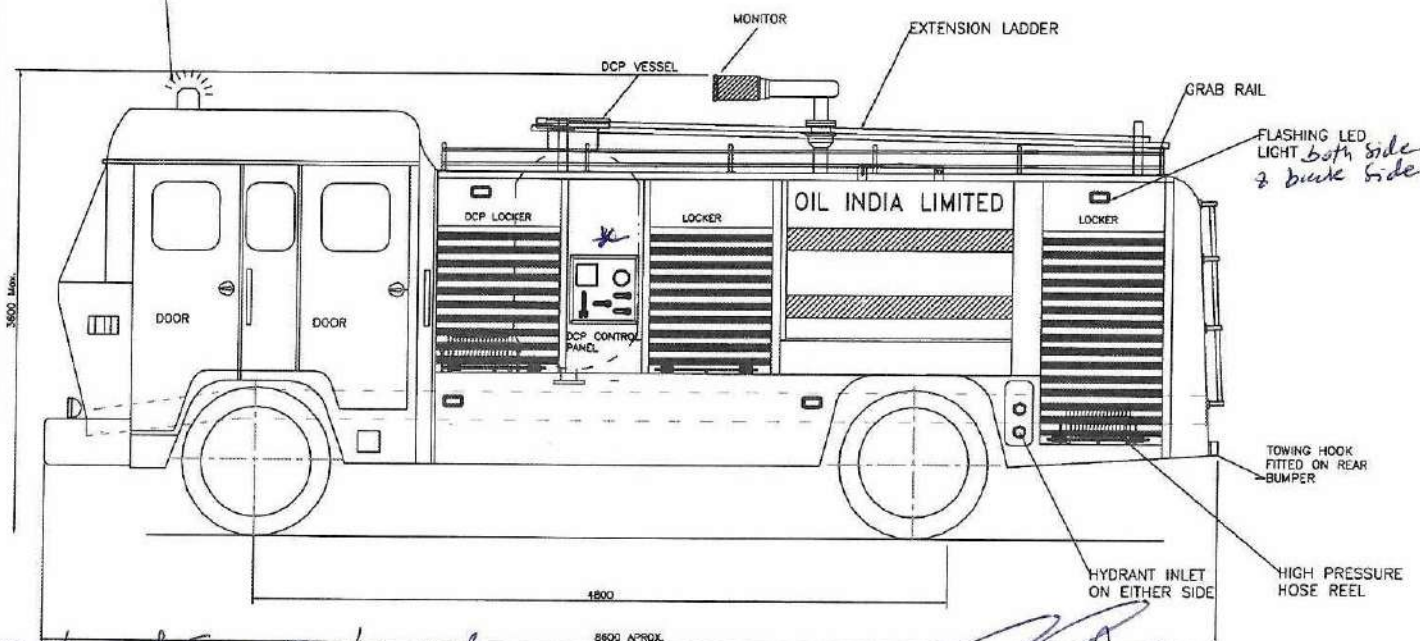
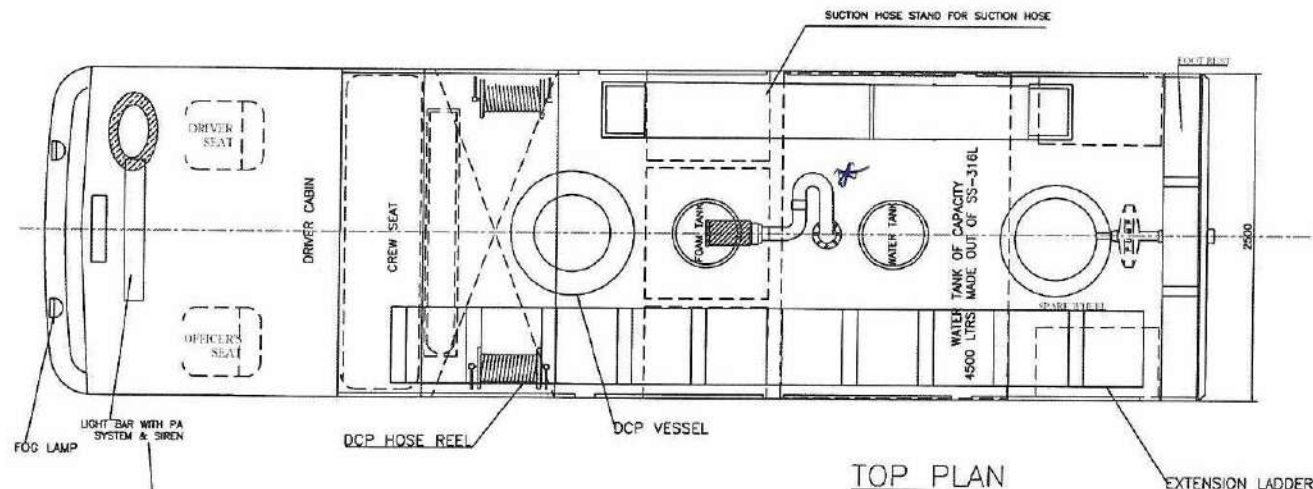
www.gearbox.in, +91-9910071850, +91-120-4312775, +91-120-4312776, vasengg@gmail.com



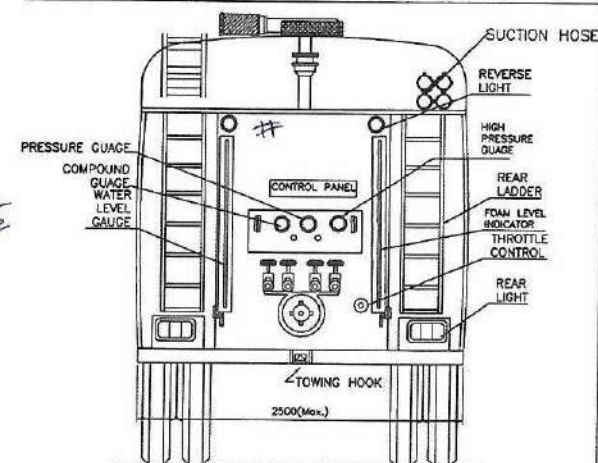
DWG NO.

V9+CI EXPLODED PART LIST DR16-09-28

A4




- NOTE :-
1. ALL DIMENSION ARE IN mm UNLESS OTHERWISE STATED.
 2. PUMP WILL BE CENTRIFUGAL TYPE HAVING CAPACITY 3200LPM AT 10KG/SQ.CM & AUTOMATIC WATER RING TYPE PRIMER. MAKE- FIREFLY, MODEL-MFV-LP-1030.
 3. AUXILIARY ULTRA HIGH PRESSURE PUMP SHALL BE DRIVEN BY THE SIDE PTO. THE UHP SHALL BE OF UDOR MAKE. MODEL- GAMMA-IL 150
 4. PTO WILL BE VAS MAKE OF SUITABLE RATIO.
 5. SUPER STRUCTURE OF CABIN SHALL BE OF PRESS SECTION OF SS-316 SQUARE TUBE OF 30X30X1.6 MM OR HIGHER.
 6. EXTERNAL PANELING SHALL BE OF 16 SWG AL. PLANE SHEET. CABIN ROOF, REAR ETC. OF 2MM CHQ SHEET. INSIDE PANELING SHALL BE 18SWG AL. SHEET.
 7. SHUTTER SHALL BE OF MCD -FRANCE MAKE .DRIVER AND OFFICER / CO-DRIVER SEATS SHALL BE OF HO BOSTOM MAKE.
 8. WATER TANK SHALL BE MADE OF SS-316L 5MM FOR BOTTOM, 4MM FOR SIDES, TOP & 3 MM FOR BAFFLES HAVING CAPACITY 4500 LTRS.
 9. FOAM TANK SHALL BE MADE OF SS-316L 4MM ALL SIDES & BAFFLE HAVING CAPACITY 1000LTRS.
 10. SUPPLEMENTARY EXTINGUISHING SYSTEM 500 KG DCP VESSEL SHALL BE KEPT ON REAR OF THE CABIN.
 11. HIGH PRESSURE HOSE REEL WITH GUN IS LOCKED ON BOTH SIDES OF REAR LOCKER.
 12. ALL ACCESSORIES SHALL BE PROVIDED AS PER SPECIFICATION.
 13. SPARE WHEEL SHALL BE KEPT IN SUITABLE LOCATION.
 14. THIS IS THE TENTATIVE GA OF THE MULTIPURPOSE FIRE TENDER & WE RESERVED TO MODIFY THE DIMENSIONS FOR BETTERMENT DURING ACTUAL FABRICATION. DIMENSIONAL TOLERANCE $\pm 5\%$



REAR VIEW

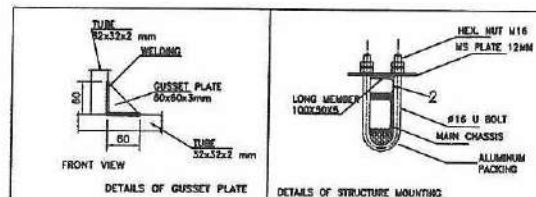
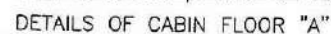
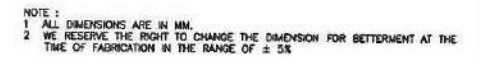
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 Industech Technologies Pvt. Ltd.			
<small> HINDUSTAN TECHNOLOGIES PRIVATE LIMITED PLOT NO. 10, PHASE II, INDUSTRIAL AREA, GATE NO. 1, SECTOR 17, GURGAON, HARYANA PIN - 122001, INDIA TEL: 012-26100000 FAX: 012-26100001 E-MAIL: info@industechtechnologies.com website: www.industechtechnologies.com GSTIN: 07AAG0005297020 </small>			
CLIENT : OIL INDIA LIMITED			
TITLE : GENERAL ARRANGEMENT OF MULTI PURPOSE FIRE TENDER ON ASHOK LEYLAND 1920 BS-VI COWL CHASSIS			
DRAWN BY S.S.P.	CHECKED BY B.B.P.	SCALE NTS	DRAWING NO. HTPL/OIL/MFT/01 DT.22/11/2022

- * Position of Foam Monitor and DCP control panel to be finalised during 1st or 2nd stage inspection
- # Back side shutter needs to be provided
- The PTO should be accessible for Regular O & M. ~~For~~ Floor Cover may be provided in Driver's Cabin.

Siddharth Singh
Siddharth Singh

ऑयल इंडिया लिमिटेड
फ़ायर सेंटर
राजस्थान




(सिद्धार्थ सिंह)/(SIDDHARTH SINGH)
मुख्य अभिन्ता (अ.से.)
Chief Engineer (FS)
ऑइल इंडिया लिमिटेड/Oil India Limited
(शासक सरकार का उद्यम)/(Govt. of India Enterprise)
राजस्थान क्षेत्र/Rajasthan Field
जोधपुर/JODHPUR

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CLEINT : OIL INDIA LIMITED

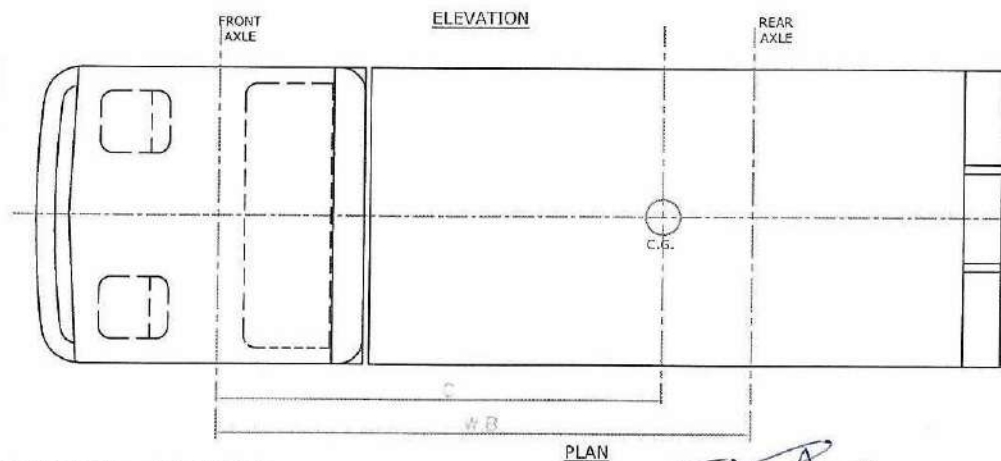
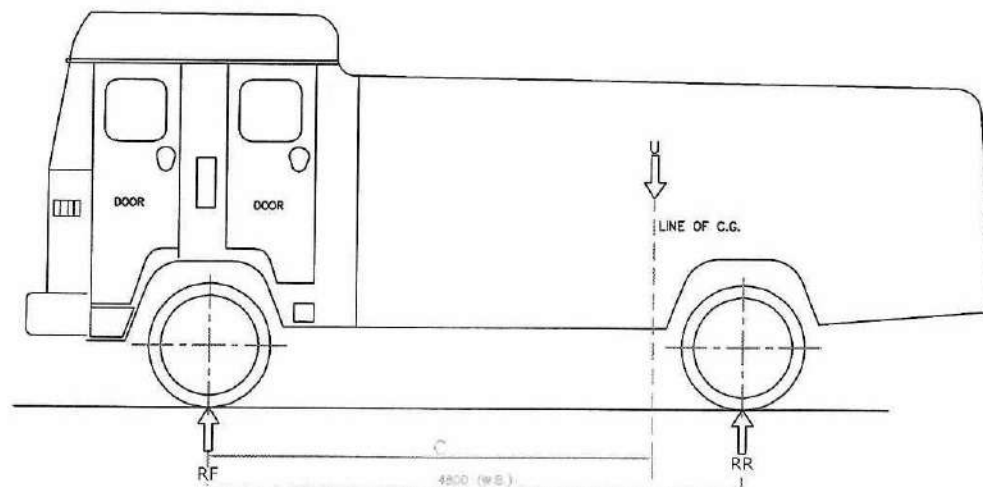
TITLE :STRUCTURAL ARRANGEMENT OF MULTI PURPOSE FIRE
TENDER ON ASHOK LEYLAND 1920 BS-VI COWL CHASSIS

DRAWN BY
S.S.P.

CHECKED BY B.B.P.

SCALE
NTS

DRAWING NO.
HTPL/OIL/SS/01
DT.18/11/2022



LOAD DISTRIBUTION CHART

SL.NO.	ITEM	LOAD ON 'F' AXLE	LOAD ON 'R' AXLE	TOTAL LOAD
1	CHASSIS	2700	2050	4750
2	STRUCTURE&BODY	590	800	1390
3	DRIVER & CREW	560	-	560
4	TANK & EQUIPMET	2522	7278	9800
5	TOTAL LOAD	6372	10128	16500
6	MAX. PREM. LOAD	7000	11500	18500

Siddharth Singh
सिद्धार्थ सिंह / (SIDDHARTH SINGH)
 मुख्य अभियंता (अ.से.)
 Chief Engineer (FS)

CLIENT : OIL INDIA LIMITED		
TITLE : LOAD DISTRIBUTION OF MULTI PURPOSE FIRE TENDER ON ASHOK LEYLAND 1520 SS-VI COWL CHASSIS		
DRAWN BY SSP	CHECKED BY BBP	DRAWING NO. HTPL/OIL/UD/01

CALCULATION OF LOAD DISTRIBUTION

DETAILS OF LOAD

- CHASSIS WEIGHT = 4750 KG
- STRUCTURE & BODY
 - CABIN STRUCTURE = 350 KG
 - LOADING BODY STRUCTURE = 450 KG
 - CROSS BEARER = 115 KG
 - PANELLING = 275 KG
 - PUMP & PTO STAND = 200 KG
 TOTAL = 1390 KG

3. DRIVER & CREW = 560 KG

4. TANK & EQUIPMENTS:

- EMPTY WATER TANK = 1400KG.
- WATER 4500 L = 4500KG
- EMPTY FOAM TANK = 450KG
- FOAM 1000 L = 1000KG
- DCP SYSTEM WITH POWDER = 800KG
- BOTH PUMP UNIT = 350KG
- PTO = 120KG
- SHAFT LINES = 80KG
- PIPING & MONITOR = 300KG
- ACCESSORIES = 800KG

TOTAL = 9800 KG

TOTAL PAY LOAD ON VEHICLE = (4750+1390+560+9800) KG
 = 16500 KG

% TOTAL PAYLOAD OF THE MAX. PERMISSIBLE = $\frac{\text{TOTAL LOAD GVW}}{\text{SPECIFIED GVW}}$
 = $\frac{16500}{18500} = 89.9\%$

C.G. LOCATION W.R.T TO FRONT AXLE

WHICH COMES TO 2950MM FROM THE FRONT AXLE TOWARDS REAR

REAR AXLE LOAD CALCULATION:

U = TOTAL LOAD = 16500 - 4750 (CHASSIS WEIGHT) = 11750 KG

RR = NORMAL REACTION DUE TO LOADS ON THE REAR AXLE

RF = NORMAL REACTION DUE TO LOADS ON THE FRONT AXLE
 BALANCING THE FORCES IN THE VERTICAL DIRECTION GIVES

$$U = RR + RF$$

NOW TAKING MOMENT OF FORCES ABOUT THE CENTER OF THE FRONT AXLE

$$RR \times WB = U \times C$$

$$RR = U \times C / WB$$

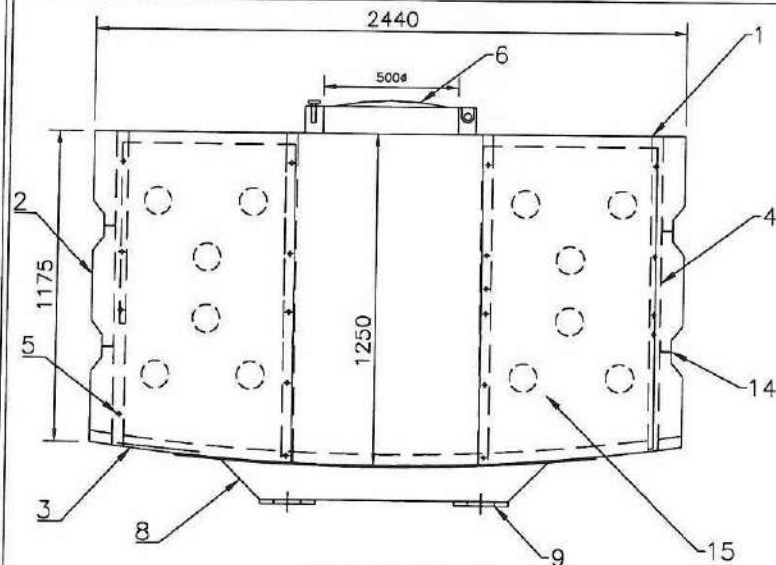
$$RR = 11750 \times 3300 / 4800 = 8078 \text{ KG}$$

SO TOTAL LOAD ON THE REAR AXLE = RR + CHASSIS LOAD ON IT
 => 8078 + 2050 = 10128 KG

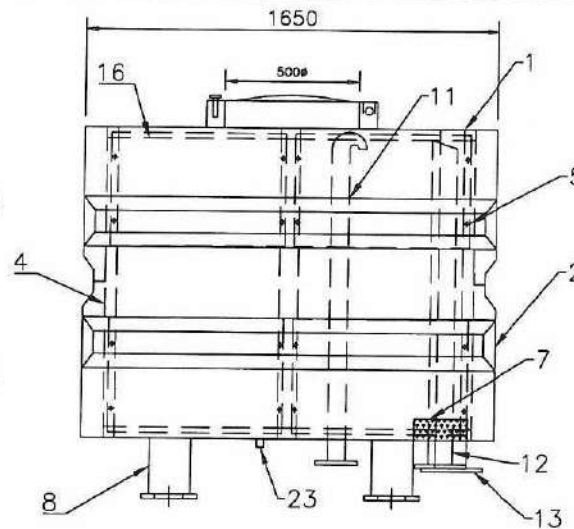
$$RF = U - RR = 11750 - 8078 = 3672 \text{ KG}$$

TOTAL LOAD ON THE FRONT AXLE = RF + CHASSIS LOAD ON IT
 => 3672 + 2700 = 6372 KG

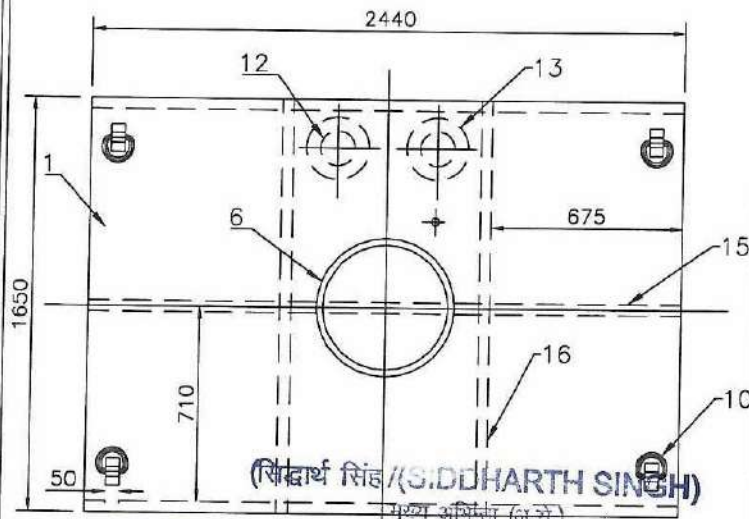
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FRONT VIEW



SIDE VIEW



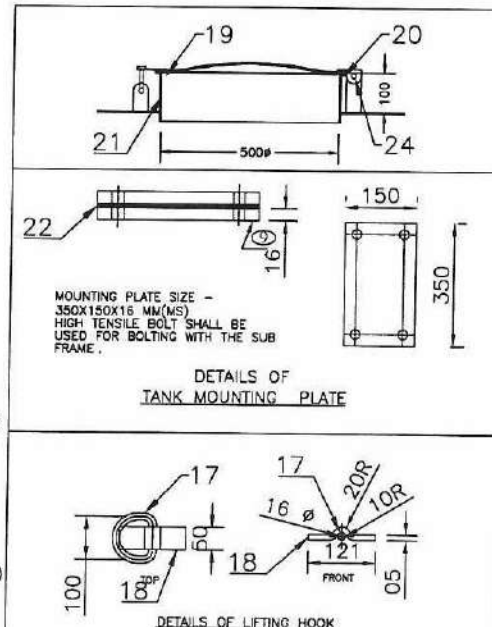
सिद्धार्थ सिंह / SIDDHARTH SINGH

Chief Engineer (FS)

ऑइल इंडिया लिमिटेड / Oil India Limited
(गवर्नमेंट ऑफ इंडिया एंटरप्राइज)
(GOVT. OF INDIA ENTERPRISE)

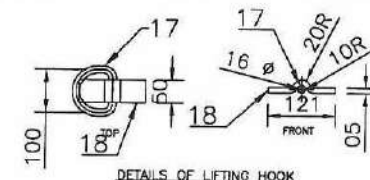
राजस्थान क्षेत्र / Rajasthan Field

जोगपुर / JOGHPUR

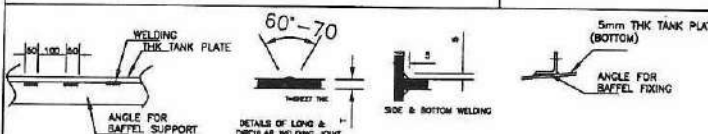


MOUNTING PLATE SIZE -
350X150X16 MM(MS)
HIGH TENSILE BOLT SHALL BE
USED FOR BOLTING WITH THE SUB
FRAME.

DETAILS OF
TANK MOUNTING PLATE



DETAILS OF LIFTING HOOK



ANGLE FOR
BAFFLE SUPPORT

DETAILS OF LONG &
CIRCULAR WELDING JOINT

SIDE & BOTTOM WELDING

ANGLE FOR
BAFFLE FIXING

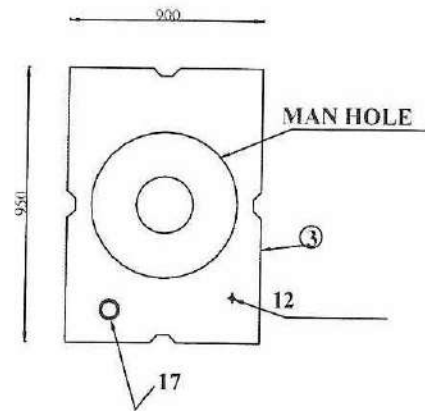
SL NO	DESCRIPTION	MOC
1	TOP PLATE	SS-316L,4MM
2	SIDE PLATE	SS-316L,4MM
3	BOTTOM PLATE	SS-316L,5MM
4	ANGLE 40X4 / 5	SS-316L
5	HEX. BOLT M10	SS-316L
6	MANHOLE	SS-316L
7	STRAINER	SS-316L
8	TANK MOUNTING BOX	MS
9	TANK MOUNTING PLATE	MS
10	LIFTING HOOK	SS-316L
11	OVER FLOW PIPE Ø 100MM	SS-316L
12	HYDRANT INLET	SS-316L
13	TANK TO PUMP OUTLET Ø 125MM	SS-316L
14	STIFFENER (DIE PRESSED)	----
15	LONGITUDINAL BAFFLE	SS-316L,3MM
16	TRANSVERSE BAFFLE	SS-316L,3MM
17	LIFTING HOOK ROD	SS
18	LIFTING HOOK PLATE	SS-316L
19	MANHOLE LOCKING	SS-316L
20	COVER HINGES	SS-316L
21	MANHOLE RING	SS-316L
22	MOUNTING RUBBER	----
23	WATER LEVEL INDICATOR CONNECTION	SS-316L
24	HINGES PIN	SS

NOTE:-

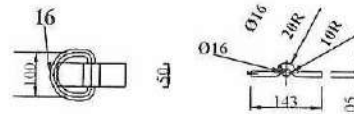
- ALL DIMENSIONS ARE IN MM.
- TANK DIMENSIONS (LXWXH) IS 1650X2440X1250(AT CENTER)
- TANK SHALL BE OF SS316L,5MM BOTTOM , 4MM SIDE PLATE & TOP. & 3MM FOR BAFFLES.
- TANK HYDROSTATIC TEST SHALL BE CARRIED OUT AT PRESSURE OF 0.5KG/CM2 FOR 30MINUTES.
- DP TEST SHALL BE CARRIED OUT IN ALL WELDING JOINTS.
- TOTAL 4 NOS OF MOUNTING PLATE SHALL BE PROVIDED IN THE TANK
- ALL NOZZLES SHALL BE WELDED WITH REINFORCED PAD PLATE.
- ALL NOZZLE POSITIONS ARE FOR REFERENCE ONLY.ACTUAL POSITION SHALL BE DECIDED AT THE TIME OF ACTUAL FABRICATION.WE RESERVE TO MODIFY THE DIMENSIONS FOR BETTERMENT AT THE TIME OF ACTUAL FABRICATION THE RANGE OF $\pm 5\%$.

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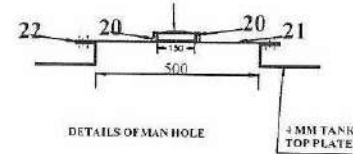
<p>CLIENT : OIL INDIA LIMITED</p>			
<p>TITLE : GA DRAWING OF WATER TANK OF CAPACITY 4500 LTRS</p>			
DRN BY:	CHKD BY:	DATE:	SCALE:
SSP	BBP	5/11/22	NTS
DRAWING No.		REV.	
HTPL/GIL/WT/01		0	



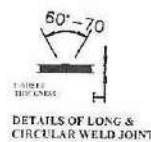
TOP VIEW



DETAILS OF LIFTING HOOK



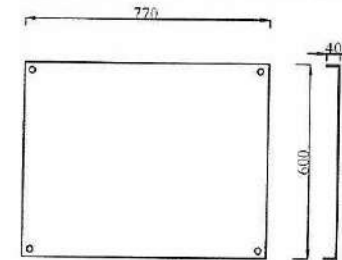
DETAILS OF MAN HOLE



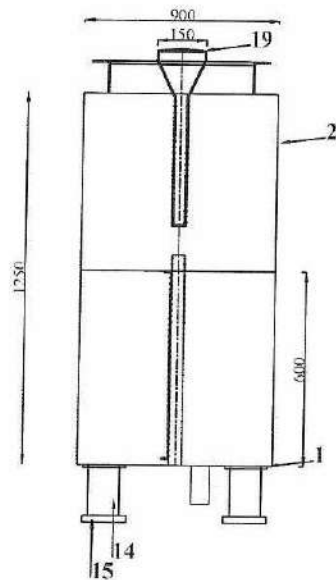
DETAILS OF LONG & CIRCULAR WELD JOINT



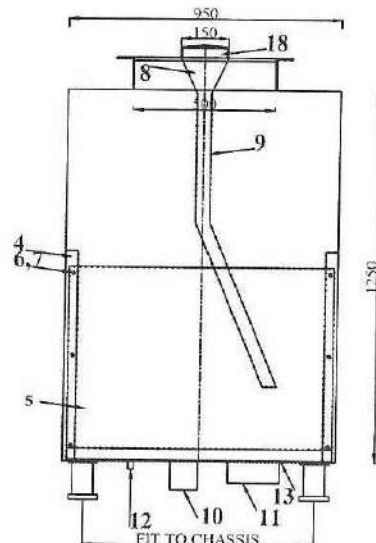
ANGLE FOR BAFFLE FITTING



DETAILS OF ITEM 5



FRONT VIEW



SIDE VIEW

NOTE:

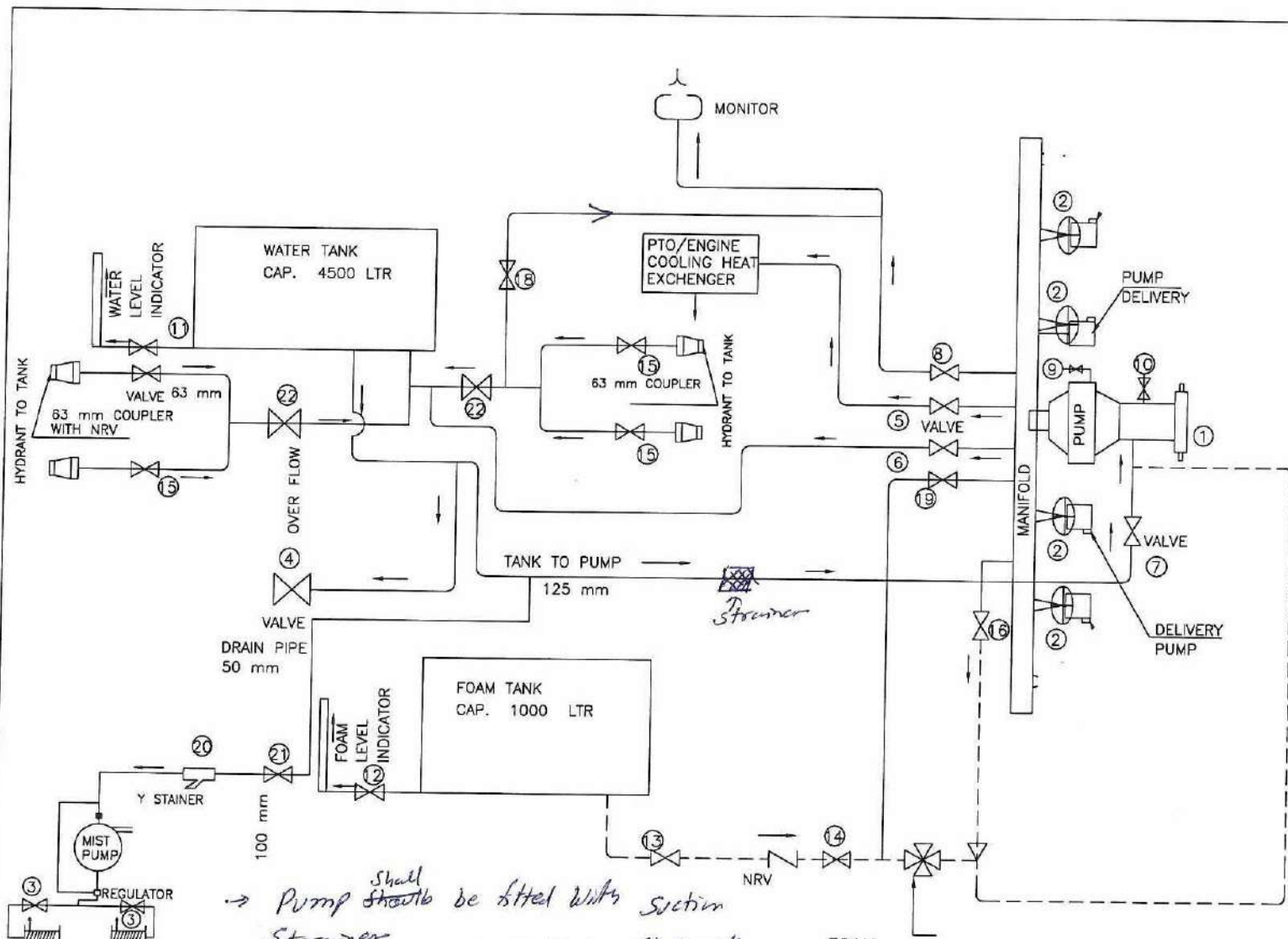
- 1.TANK DIMENSIONS (LXWXH) IS 900X950X1250 (AT CENTRE)
- 2.TANK SHALL BE OF 5MM AT BOTTOM, SIDE & TOP 4MM AND BAFFLE 3MM.
- 3.TANK HYDROSTATIC TEST AT THE PRESS OF 0.5 KG/CM²(G) FOR 30 MINUTES.
- 4.DP TEST WILL BE AT ALL WELD JOINT.
- 5.DIMENSIONAL TOLERANCE OF $\pm 5\%$

SL NO	DESCRIPTION	MOC
1	BOTTOM PLATE 5MM	SS 316L
2	SIDE PLATE 4 MM	SS 316L
3	TOP PLATE 4 MM	SS 316L
4	ANGLE 40X40X5 MM	SS 316L
5	BAFFLE PLATE	SS 316L
6	HEXA BOLT M10X75MM CORG	SS 316L
7	HEXA NUT M10	SS 316L
8	STAINER	SS 316L
9	FOAM FILLING PIPE	SS 316L
10	FOAM TANK TO PUMP 40MM	SS 316L
11	CLEANING HOLE	SS 316L
12	SOCKET 15NB	SS 316L
13	RF PAD FOR TANK	SS 316L
14	TANK MOUNTING CHANNEL	MS
15	TANK MOUNTING PLATE 16MM	MS
16	LIFTING HOOK	SS 316L
17	AIR VENT	SS 316L
18	FILLING ORIFICE	SS 316L
19	FILLING ORIFICE COVER	SS 316L
20	LOCKING ARRANGEMENT	SS 316L
21	MANHOLE COVER PLATE	SS 316L
22	PACKING	RUBBER

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<p>CLIENT: OIL INDIA LIMITED, JODHPUR</p>				
<p>ITEM DETAILS: GA DRAWING OF FOAM TANK OF CAPACITY 1000 LITERS</p>				
DRN BY:	CHKD BY:	DATE:	SCALE:	DRAWING No:
SSP	BBP	04.11.2022	NTS	HTPL/OIL/ET401
				REV:
				0

(Siddharth Singh) / (SIDDHARTH SINGH)
 मुख्य अभियंता (अ.से.)
 Chief Engineer (FS)
 ऑयल इंडिया लिमिटेड/Oil India Limited
 (भारत सरकार का उद्यम)/(Govt. of India Enterprise)
 राजस्थान क्षेत्र/Rajasthan Field
 जोधपुर/JODHPUR



SL NO.	DESCRIPTIONS	SIZE IN MM
1	PUMP SUCTION INLET	140
2	PUMP DELIVERY OUTLET	63
3	MIST PUMP TO HP HOSE REEL	20
4	WATER TANK DRAIN VALVE	50
5	PUMP TO PTO/HEAT EXCHANGER	15
6	PUMP TO TANK FILLING	50
7	WATER TANK TO PUMP	125
8	MONITOR VALVE	100
9	CONNECTION FOR PRESSURE GAUGE	10
10	CONNECTION FOR COMPOUND GAUGE	10
11	WATER LEVEL CONNECTION	15
12	FOAM LEVEL CONNECTION	15
13	FOAM LINE MAIN VALVE	40
14	FOAM LINE SHUT OFF VALVE	40
15	HYDRANT INLET WITH VALVE	50
16	INDUCTOR VALVE	25
17	FOAM SELECTOR VALVE	---
18	HYDRANT TO MONITOR	80
19	FOAM FLUSHING	15
20	Y-STRAINER	40
21	TANK TO MIST PUMP	40
22	HYDRANT LINE ISOLATION VALVE	80

→ Pump shall be fitted with suction Strainer
 → High pressure hose reels shall be fitted with Quick release type coupling

BALL VALVES SHALL BE OF CF8M GRADE (SS-316L), MAKE- FLOWJET
 BUTTERFLY VALVE SHALL BE OF CF8M GRADE DISH

FOAM PROPORTIONER AND SELECTOR VALVE

(SIDDHARTH SINGH)

मुख्य अभियन्ता (अ.रो.)
 Chief Engineer (FS)

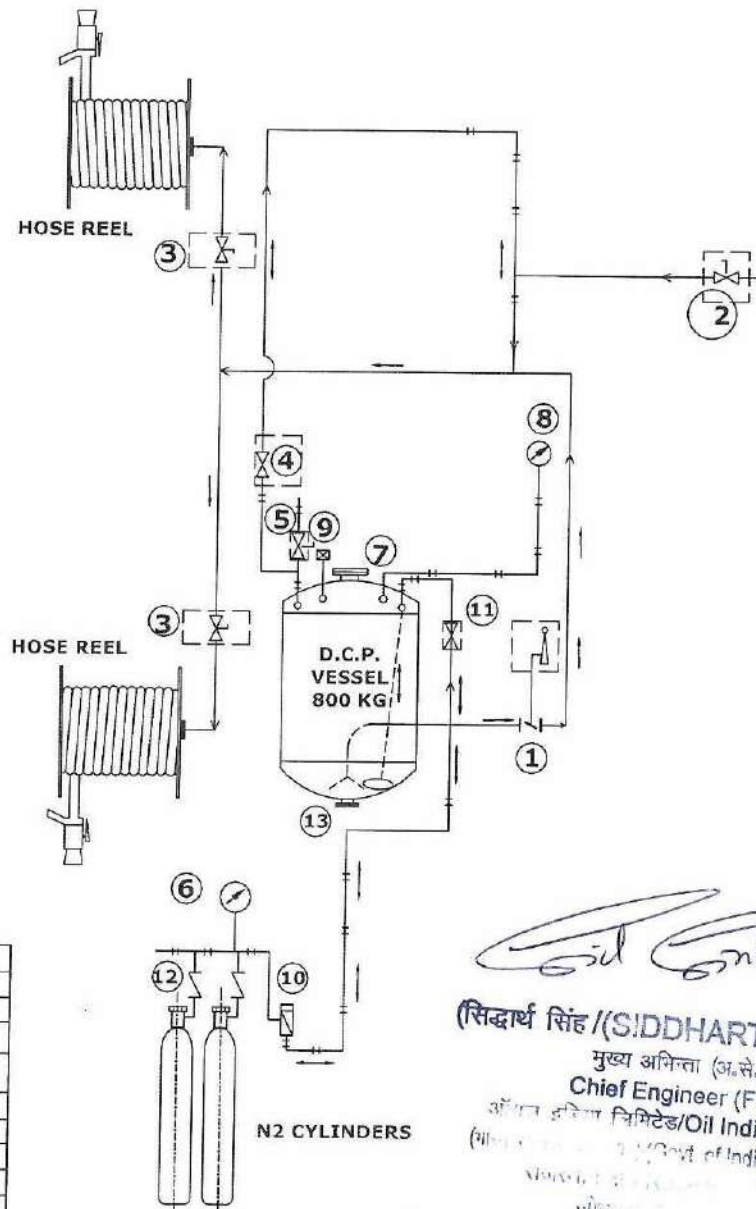
ऑयल इंडिया लिमिटेड/Oil India Limited
 (भारत सरकार का उद्यम)/(Govt. of India Enterprise)

राजस्थान क्षेत्र/Rajasthan Field

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Head Office: AT GANDHI NAGAR, P.O. JAGATPUR, DIST. GULBERGA, M.S. 431001 Main Plant No. 1 & 2: OLD INDUSTRIAL AREA, GULBERGA, DIST. GULBERGA, M.S. 431001 P.O. 207/1, CHITRA, DIST. NAGPUR, M.S. 471001 E-mail: info@hindustan-technologies.com , sales@hindustan-technologies.com GSTIN: 27AAGCH587012U			
CLIENT : OIL INDIA LIMITED			
TITLE : FLOW DIAGRAM FOR MULTIPURPOSE FIRE TENDER			
DRN BY:	CHKD BY:	DATE	SCALE
M.K.S	S.S.P.	30.10.22	NTS
DRAWING No		REV.	
HTPL/OIL/FS-MFT/01		0	

LAY OUT OF PIPE LINE 500KG. DRY CHEMICAL POWDER TENDER



SL.NO.	DESCRIPTION	QTY.	SIZE
1	MAIN DELIVERY VALVE	01 NO	80NB
2	AUXILIARY FLUSHING VALVE	01 NO	15NB
3	HOSE REEL CONT. VALVE	01 NOS.	25NB
4	FLUSHING VALVE	01 NO	15NB
5	VENT VALVE	01 NO	15NB
6	MANIFOLD PRESSURE GAUGE MOUNTED ON REGULATOR	02 NOS.	---
7	DCP VESSEL MANHOLE	01 NO	450NB
8	VESSEL PRESSURE GAUGE	01 NO	10NB
9	SAFETY VALVE	01 NO	25NB
10	HIGH PRESSURE REGULATOR	01 NO	---
11	DIFFUSER / CHARGING	01 NO	25NB
12	NON RETURN VALVE	02 NOS.	15NB
13	DRAIN	01 NO	250NB

- *-Spare N₂ Cylinders (in Fire Tender) - 02 Nos
- Spare N₂ Cylinders (Additional) - 04 NOS.
- Synthesized filters to be provided
- can diffuser nozzles (inside DCP vessels)
- Variable Flow Hydro Chem Nozzle at Hose reel
- provision of flushing from External Sources (CO₂, FE, Baset Vehicle Air etc.) needs to be provided

MARK	DESCRIPTION
⊕	BALL VALVE
⊕	BUTTERFLY VALVE
⊕	PRESSURE GAUGE
⊕	HP. REGULATOR
—	D.C.P. LINE
—	N ₂ EXPELLENT LINE
⊕	SAFETY VALVE
—	NON RETURN VALVE
⊕	CONTROL PANEL
⊕	ISOLATION LEVER

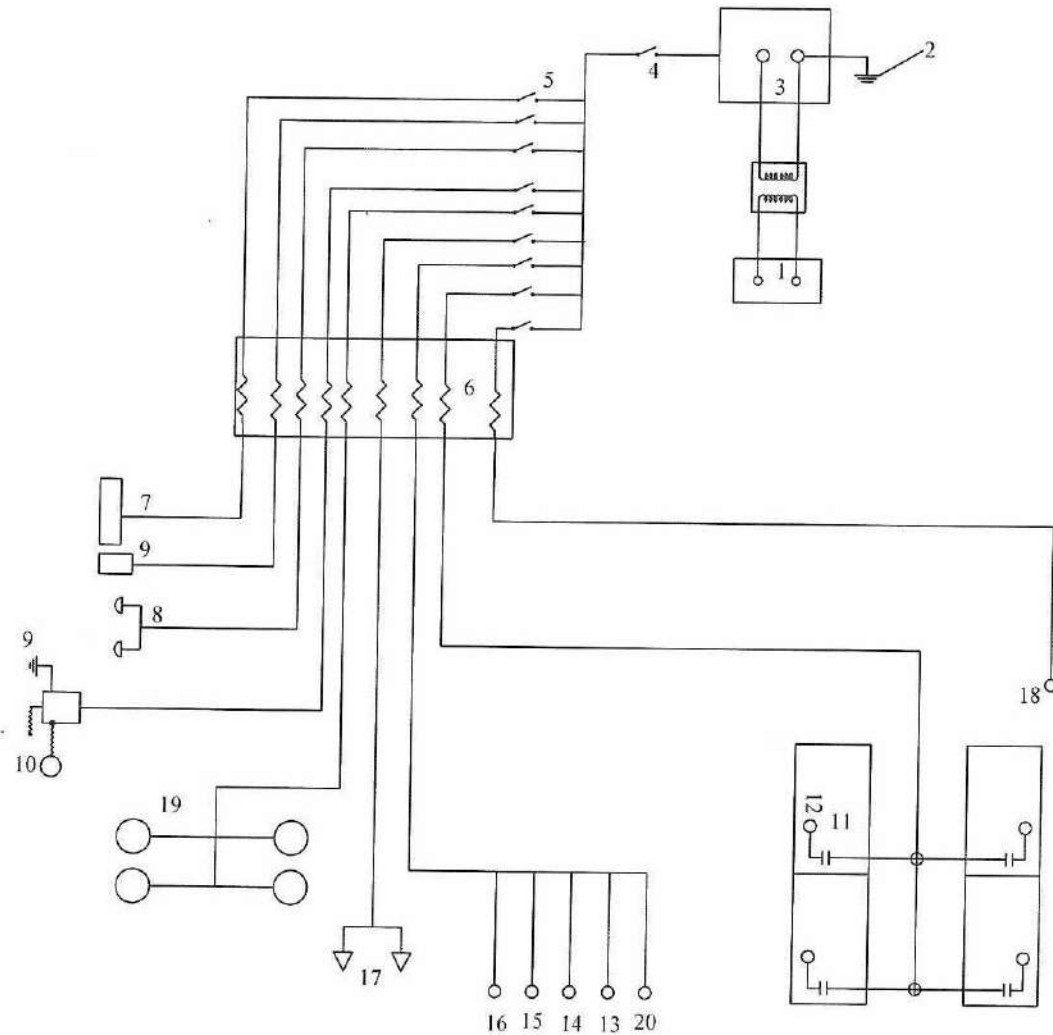
Siddharth Singh
सिद्धार्थ सिंह / (SIDDHARTH SINGH)
 मुख्य अभियंता (अ.से.)
 Chief Engineer (FS)

ऑयल इंडिया लिमिटेड/Oil India Limited
 (भारत सरकार का अंग)
 Govt of India Enterprise

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Regd. Office: AT SHIVPURI, NAMPUR, P.O. JAGATPUR DIST. CUTTACK PIN-754001 ODISHA
 WORK. PLOT NO. 5 & 7 OLD INDUSTRIAL ESTATE JAGATPUR, CUTTACK-754001 ODISHA
 Ph. (0671)-2491348 (OW) MOB. 9437022348/9437579348
 E-mail: admin@hindustantechnologies.com website: www.hindustantechnologies.com
 GSTIN 21AACCH5297D1ZU

CLIENT : OIL INDIA LIMITED					
TITLE : PIPE LINE SCHEMATIC DIGRAM OF DCP 500 KG					
DRN BY.	CHKDBY.	DATE	SCALE	DRAWING No	REV.
S.S.P.	B.B.P.	10.11.22	NTS	HTPL/OIL/MFT/DFD/1	0




S.No.	DESCRIPTIONS
1	CONNECTOR
2	EARTHING POINT
3	BATTERY 24 V
4	MAIN SWITCH (CUT OFF)
5	SWITCH PULL PUSH
6	FUSE BOX
7	LIGHT BAR
8	LIGHT FOG
9	CABLE REEL ASSEMBLY
10	SEARCH LIGHT
11	LOCKER SWITH (AUTO ON/OFF TYPE)
12	LOCKER LIGHT
13	SWITCH ON PANEL BOARD
14	PANEL LIGHT
15	BELL ELECTRIC
16	PUMP CABIN LIGHT
17	REVERSING LIGHT WITH HORN
18	CABIN LIGHT
19	OPTICAL WARNING DEVICE SWITCH
20	LEVEL INDICATOR SWITCH

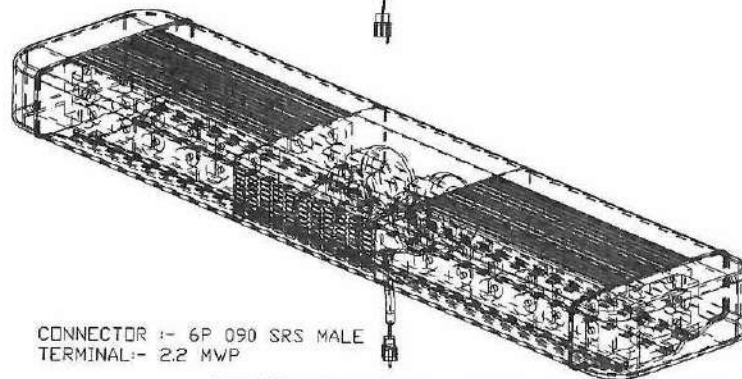
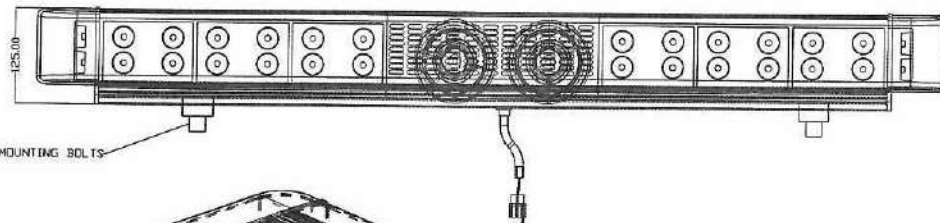
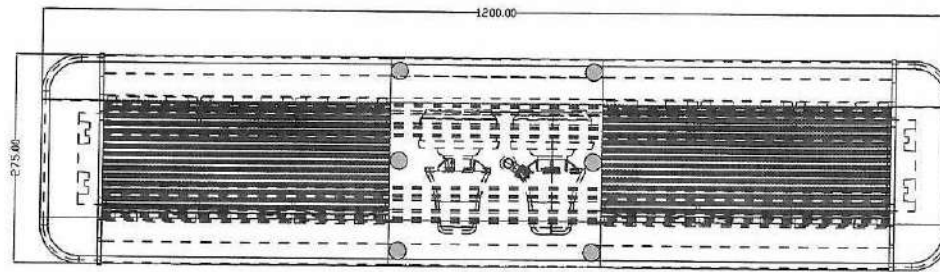
NOTES:-

1. ALL WIRE USED FOR WIRING SHALL BE OF REPUTED MAKE.
2. ALL THE CIRCUIT CUT OUT, FUSES & BULBS WILL BE IN COMPABILITY OF 24V BATTERY


(सिद्धार्थ सिंह) (SIDDHARTH SINGH)
 मुख्य अभियंता (अ.से.)
 Chief Engineer (FS)
 ऑयल इंडिया लिमिटेड/Oil India Limited
 (भारत सरकार का उपक्रम)/(Govt of India Enterprise)
 राजस्थान क्षेत्र/Rajasthan Field
 जोधपुर/JODHPUR

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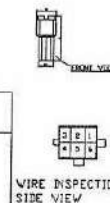
 Hindusthan Technologies Pvt. Ltd. <small>(AN ISO 9001:2015 CERTIFIED COMPANY)</small> Regd. Office AT SHIVAPURI, (NIMPUR) P.O. JAGATPUR DIST. CUTTACK PIN 754021 ODISHA Work Plot NO. 5 & 7 OLD INDUSTRIAL ESTATE JAGATPUR CUTTACK 754021 ODISHA Ph. (0671)-2491348 (C/W) MOB. 9437026348, 9437579348 E-mail: askin@hindusthantechnologies.com website: www.hindusthantechnologies.com GSTIN: 21AACCH5257D1ZU				
CLIENT: OIL INDIA LIMITED				
TITLE: ELECTRIC CIRCUIT DRAWING				
DRN BY:	CHKD BY:	DATE	SCALE	DRAWING No
SSP	BEP	2/11/2022	NTS	HTPL/OIL/EC



CONNECTOR :- 6P 090 SRS MALE
TERMINAL:- 2.2 MWP

I/P CONNECTOR

PIN/WIRE NO	COLOR	SIZE
1	BLUE	0.5 SOMM
2	BLACK	
3	YELLOW	
4	GREEN	
5	WHITE	
6	RED	



ITEM NO	DESCRIPTION	QTY.	MATERIAL
1	BASE PLATE	1	ALUMINIUM
2	TOP 1350 HND	2	ALUMINIUM
3	DRIVER UNIT	2	STD
4	UNIT CLAMP	2	MS
5	CONICAL	2	ABS BLACK
6	UNIT CAP	1	ABS BLACK
7	SS GRILL	1	SS
8	PARTITION	2	MS
9	SIDE LENSE	2	POLYCARBONATE
10	FRONT LENSE	2	POLYCARBONATE
11	CARD MAIN	1	STD
12	4 LED MODULE	12	STD
13	6 PIN MALE COUPLER	1	STD
14	6 CORE LEAD (780NM)	1	STD
15	90 SRS 6H COUPLER	1	MS-44
16	STS BX16	12	MS
17	STS BX13	20	MS
18	WASHER SX15	28	MS
19	STS 6X19	8	MS
20	STS 6X19	7	MS
21	P CLAMP	5	ALUMIN
22	6X3.5	20	MS
23	HEXLOCK NUT	5	MS
24	HEX BOLT (6X16)	4	MS
25	WASHER 6X16	4	MS
26	310 GRDHEAT	1	EPDM
27	GRILL MOUNTING PLATE	1	SS
28	UNIT MOUNTING BOLT (CHK BOLT 6X10)	4	MS
29	6X12 WASHER	4	SS
30	PARTITION NUMBER	2	EPDM
31	SS GRILL TAPE (3M)	STD	STD

TECHNICAL SPECIFICATIONS:

- 1) OPERATING VOLTAGE : 9V-16 V DC.
- 2) NO. OF LED - 48 NOS.
- 3) COLOUR OF LED - RED & BLUE
- 4) WEIGHT : 12. KGS
- 5) NO OF SPEAKERS : 2 PCS OF 55W EACH
- 6) DB LEVEL : 110 ~120 DB
- 7) LED WOTTAGE - 1W EACH LED

SERVICABLE PARTS:-

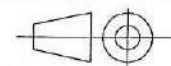
- 1) SPEAKER UNIT
- 2) LENSES

PARTS IS FREE BURRS SCRATCH SPOT DENTS ETC.

Sno	Rev.No	change	Date	Drn.

GA DRAWING

DATE	DRN	CKD	APPVD
100720	VS	KP	DV



**Sholpin
India**

DESCRIPTION :

4 LED TRIUMPH BAR LIGHT

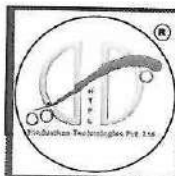
DRG / PART DESIGNATION :-

AIS-125T4

A1

VENDOR DRG / PART NO: SE / MF-5 / 108 AIS Rev. 01

(Signature)
(सिद्धार्थ सिंह) (SIDDHARTH SINGH)
मुख्य अभियंता (मुख्य)
Chief Engineer (Chief)
ऑयल इंडिया लिमिटेड (Govt of India Field Office)
(भारत सरकार का उद्योग) (Rajasthan Field
राजस्थान क्षेत्र/JODHPUR



Hindusthan Technologies Pvt. Ltd.

Plot No. 5 & 7 Old Industrial Estate Jagatpur
Cuttack Orissa

DCP Vessel Design Cap.-800 Kg

Shell Description

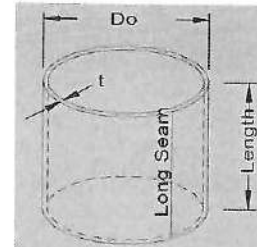
Dimensions:

<u>36.378</u>	Do [in] - outside diameter
<u>0.472</u>	t [in] - nominal wall thickness(12mm)
<u>39.370</u>	L [in] -length
<u>0.098</u>	Corr [in] - corrosion allowance

Working Pressure = 200 psi
Hydrotesting Pressure = 300 psi
MDMT = 20°F
Design Temperature = 120°F

Material and Conditions:

<u>SA-516 70</u>	Material
<u>19,998</u>	S [psi] - allowable stress
<u>1.00</u>	EI - long seam efficiency (circ stress)
<u>0.90</u>	Ec - circ seam efficiency (long stress)
<u>0.0%</u>	UTP [%] - undertolerance allowance
<u>231.4</u>	P [psi] - interior pressure+Static Head



Variables:

$$\begin{aligned} UT [in] &= t \cdot UTP & 0.472 \cdot 0 &= 0.000 \\ nt [in] &= t - \text{Corr} - UT & 0.472 - 0.098 - 0 &= 0.374 \\ Ri [in] &= Do / 2 - nt & 36.378 / 2 - 0.374 &= 17.815 \end{aligned}$$

Required Thickness: UG-27(c)(1,2)

$$\begin{aligned} ta [in] &= P \cdot Ri / (S \cdot EI - 0.6 \cdot P) \quad \text{long seam} & 231.4 \cdot 17.815 / (19998 \cdot 1 - 0.6 \cdot 231.4) &= 0.208 \\ tb [in] &= P \cdot Ri / (2 \cdot S \cdot Ec + 0.4 \cdot P) \quad \text{circ seam} & 231.4 \cdot 17.815 / (2 \cdot 19998 \cdot 0.9 + 0.4 \cdot 231.4) &= 0.114 \end{aligned}$$

$$Treq [in] = \text{MAX}(ta, tb) \quad \text{required minimum thickness} \quad \text{MAX}(0.208, 0.114) = \boxed{0.208}$$

$$\text{Check } Treq = Treq \leq nt \quad (\text{Thickness req. is 6.142 mm so we took 12 mm}) \quad 0.208 \leq 0.374 = \text{Acceptable}$$

Maximum Pressure: UG-27(c)(1,2)

$$Pint1 [psi] = (S \cdot EI \cdot nt) / (Ri + 0.6 \cdot nt) \quad (19998 \cdot 1 \cdot 0.374) / (17.815 + 0.6 \cdot 0.374) = 415$$

$$Pint2 [psi] = (2 \cdot S \cdot Ec \cdot nt) / (Ri - 0.4 \cdot nt) \quad (2 \cdot 19998 \cdot 0.9 \cdot 0.374) / (17.815 - 0.4 \cdot 0.374) = 762$$

$$PMax [psi] = \text{Min}(Pint1, Pint2) \quad \text{maximum allowed design pressure} \quad \text{MIN}(415, 762) = \boxed{414.6}$$

$$\text{Check } P = PMax \geq P \quad 414.6 \geq 231.4 = \text{Acceptable}$$

Hindusthan Technologies Pvt. Ltd.

Plot No. 5&7 Old Industrial Estate Jagatpur
Cuttack Orissa

(सिद्धार्थ सिंह / (SIDDHARTH SINGH))

मुख्य अभियन्ता (अ.से.)

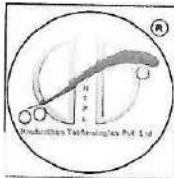
Chief Engineer (FS)

ऑयल इंडिया लिमिटेड/Oil India Limited

(भारत सरकार का उपक्रम)/(Govt. of India Enterprise)

राजस्थान क्षेत्र/Rajasthan Field

जोधपुर/JODHPUR



Hindusthan Technologies Pvt. Ltd.
Plot No. 5 & 7 Old Industrial Estate Jagatpur
Cuttack Orissa

F&D Head Description

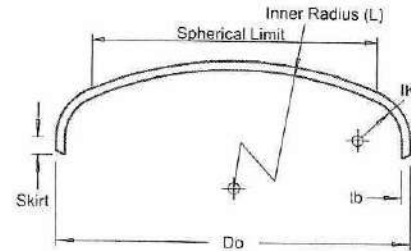
Dimensions:

36.378	Do [in] - outside diameter of head
32.886	L [in] - inside crown radius (note 1)
6.439	IKR [in] - inside knuckle radius (note 2)
0.472	tb [in] - thickness before forming
0.402	tf [in] - thickness after forming (note 3)
0.098	Corr [in] - corrosion allowance
1.570	Skirt [in] - straight skirt length

Material and Conditions:

SA-516 70	Material
19,998	S [psi] - allowable stress
1.00	E - head longitudinal efficiency
200.0	P [psi] - interior pressure

Design Pressure = 230 psi
Working Pressure = 200 psi
Hydrotesting Pressure = 300 psi
MDMT = 20°F
Design Temperature = 120°F



Variables:

nt [in] = tf - Corr	0.402 - 0.098 = 0.303
D [in] = Do - 2*nt	36.378 - 2*0.303 = 35.772
L/r = L/IKR	32.886/6.439 = 5.107
M = 0.25*(3+sqrt(L/IKR))	0.25*(3+SQRT(32.886/6.439)) = 1.315
Ro [in] = L + tb	32.886 + 0.472 = 33.358

Required Thickness: App. 1-4(a) App. 1-4(d)

$$\text{App1-4(f)} = \text{tf}/\text{L}$$

$$0.402/32.886 = \mathbf{0.012}$$

$$\text{App1-4(f)Calc} = \text{if}(\text{AND}(0.0005 \leq \text{App1-4(f)}, \text{App1-4(f)} < 0.002), \text{"Calculation Required"}, \text{"Calculation not required"})$$

App. 1-4(f) Calculation Not Required

$$\text{Treq [in]} = (P * L * M) / (2 * S * E - 0.2 * P) + \text{Corr}$$

$$(200 * 32.886 * 1.315) / (2 * 19998 * 1 - 0.2 * 200) + 0.098 = \mathbf{0.315}$$

$$\text{CheckTreq} = \text{Treq} \leq \text{tf}$$

$$0.315 \leq 0.402 = \text{Acceptable}$$

Maximum Pressure: App. 1-4(a) App. 1-4(g)

$$\text{Pmax [psi]} = (2 * S * E * \text{nt}) / (L * M + 0.2 * \text{nt})$$

$$(2 * 19998 * 1 * 0.303) / (32.886 * 1.315 + 0.2 * 0.303) = \mathbf{280.0}$$

$$\text{CheckPMax} = \text{Pmax} \geq P$$

$$280 \geq 200 = \text{Acceptable}$$

Hindusthan Technologies Pvt. Ltd.
Plot No. 5 & 7 Old Industrial Estate Jagatpur
Cuttack Orissa

www.hindusthanfiretech.in

(सिद्धार्थ सिंह / (SIDDHARTH SINGH))

मुख्य अभियंता (अ.से.)

Chief Engineer (FS)

ऑइल इंडिया लिमिटेड/Oil India Limited

(भारत सरकार द्वारा नियंत्रित)/(Govt. of India Enterprise)

राजस्थान क्षेत्र/Rajasthan Field

राजस्थान क्षेत्र/Rajasthan Field

SHELL OVERALL LENGTH-1MTR.

DIA - 0.9 MTR.

VOLUME CALCULATION

$$\frac{3.14 \times 0.9 \times 0.9 \times 1}{4}$$

V=0.636 CU M

VOLUME OF DISC END:-

$$r = \frac{a^2 + h^2}{2h} = \frac{(0.45)^2 + (0.225)^2}{2 \times 0.225} = \frac{0.202 + 0.050}{0.45}$$

$$r = 0.5625$$

$$v = \frac{\pi}{3} \times h^2 \times (3r - h)$$

$$v = \frac{3.142}{3} \times 0.225^2 \times \{(3 \times 0.5625) - 0.225\}$$

$$v = 0.0775 \text{ M}^3$$

Total ideal volume of tank = $0.636 + (2 \times 0.0775)$
= 0.791 M^3

Considering apparent density = 0.7 gm/cc
Volume req. for 500 kg DCP = 0.714 M^3



(सिद्धार्थ सिंह / (SIDDHARTH SINGH))

मुख्य अभियंता (अ.सं.)

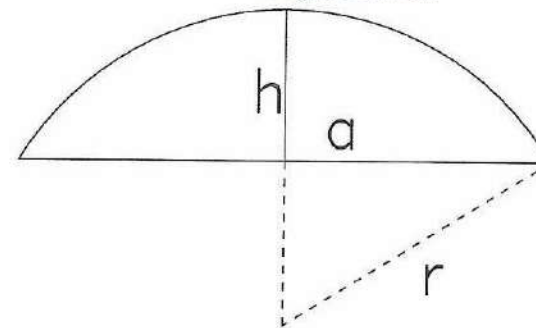
Chief Engineer (FS)

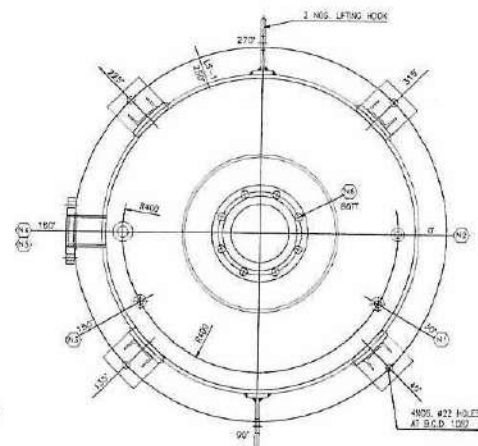
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(भारत सरकार का उद्यम) / (Govt. of India Enterprise)

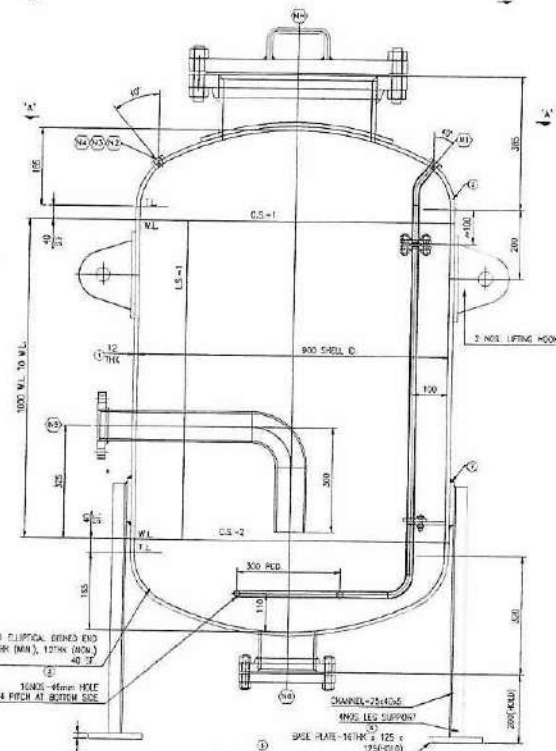
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जोधपुर / JODHPUK

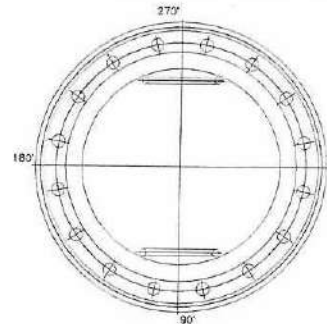




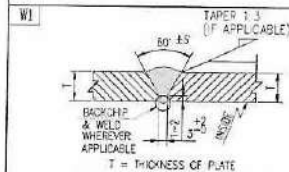
VIEW-A-A'
Longitudinal Section (HGLD)



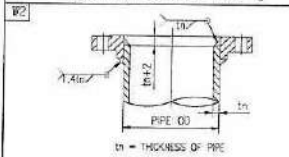
LOCATIONAL ELEVATION
(NOT IN ONE PLANE)



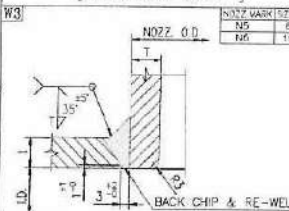
VIEW-B-B'



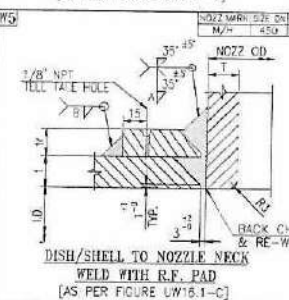
TYP. CS & LS WELD DETAIL
[AS PER TABLE UW12-TYPE 1]



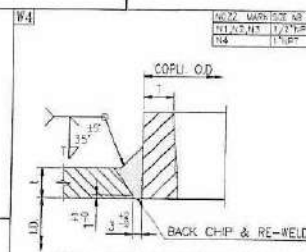
TYP. NOZZLE
TO SHELL FLANGE WELD DETAIL
[AS PER FIGURE UW 21-1]



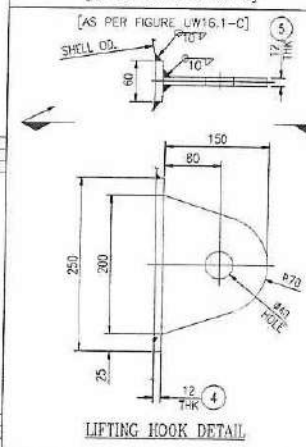
DISH/SHELL TO NOZZLE NECK
WELD WITHOUT R.F. PAD
[AS PER FIGURE UW16.1-C]



DISH/SHELL TO NOZZLE NECK
WELD WITH R.F. PAD
[AS PER FIGURE UW16.1-C]



DISH TO HALF COUPLING WELD DETAIL
[AS PER FIGURE UW16.1-C]



LIFTING HOOK DETAIL

NOZZLE SCHUDELE

NO.	DESCRIPTION	SIZE	LOCATION	END CORN	PROJ. IN MM	R.F. PAD
N1	N2 CHARGING	1/2"	TOP DISH/SHOULDER NPT HALF COUPLING	FLANGE/SOCKET/UNION	-	-
N2	PRESSURE GAUGE	1/2"	TOP DISH/SHOULDER NPT HALF COUPLING	FLANGE/SOCKET/UNION	-	-
N3	FLUSHING/VENT	1/2"	TOP DISH/SHOULDER NPT HALF COUPLING	FLANGE/SOCKET/UNION	-	-
N4	SAFETY VALVE	1"	TOP DISH/SHOULDER NPT HALF COUPLING	FLANGE/SOCKET/UNION	-	-
N5	MAN-HOLE	Ø 457.12 THK	TOP DISH/SHOULDER NPT HALF COUPLING	FLANGE/SOCKET/UNION	150	50mm
N6	NOZZLE VALVE WITH SIGNAL TUBE	Ø 101.6 THK	TOP DISH/SHOULDER NPT HALF COUPLING	FLANGE/SOCKET/UNION	150	50mm
N7	NOZZLE	Ø 101.6 THK	TOP DISH/SHOULDER NPT HALF COUPLING	FLANGE/SOCKET/UNION	150	50mm
N8	NOZZLE	Ø 101.6 THK	TOP DISH/SHOULDER NPT HALF COUPLING	FLANGE/SOCKET/UNION	150	50mm

REMARKS ON NOZZLE TABLE
1. ALL NOZZLE PIPE/FITTINGS SHALL BE SA 106 GR B/S234 WPE MATERIAL.
2. ALL CADRETS ARE OF 3" H.L.
3. SOCKET BEARING SURFACE OF FLANGE SHALL HAVE 3.2 TO 6.3 µm (125 TO 250 ARK) FINISH.
4. NOZZLE PROJECTION SPECIFIED IS FROM OUTSIDE SURFACE OF SHELL/CON/DISH/SHOULDER AND LIFTING FLANGE FACE.

DESIGN PARAMETERS

NO.	DESCRIPTION	UNIT	VALUE
01	VESSEL DESCRIPTION	DCP STORAGE VESSEL	
02	QUANTITY	1 NO.	
03	TAG NO.	-	
04	PROCESS FLUID	DRY CHEMICAL POWDER, N2 GAS	
05	SPECIFIC GRAVITY	0.75 kg/m³	
06	VISCOSITY (cP)	-	
07	CORROSION ALLOWANCE	2.5mm	
08	DESIGN CODE	RSME SEC VIB (REV) 2015 Edn	
09	DESIGN PRESSURE	14 kg/cm²(g)	
10	DESIGN TEMPERATURE	80° C	
11	WORKING PRESSURE	14 kg/cm²(g)	
12	WORKING TEMPERATURE	300° C	
13	HYDROTEST PRESSURE	21 kg/cm²(g)	
14	HYDROTEST TEMPERATURE	Ambient	
15	INSPECTION BY	CLIENT	
16	WORKING CAPACITY	500 kg	

GENERAL NOTES

- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- 2) NOZZLE POSITION & ORIENTATION SHOWN IN THE ELEVATION ARE FOR REFERENCE ONLY. FOR TRUE LOCATION SEE NOZZLE ORIENTATION PLAN.
- 3) ALL BOLT HOLES SHALL STRADDLE THE MAIN CENTER LINES OF THE VESSEL.
- 4) THE PRE-POLISHED SURFACES OF SHEETS SHOULD BE SUITABLY PROTECTED DURING FABRICATION TO AVOID SCRATCHES, DENTS, MARKS, EMBEDEDMENT OF IRON PARTICLES ETC.
- 5) ALL GAS CUT EDGES SHALL BE GROUND OFF TO A SMOOTH SURFACE.
- 6) ALL WELD JOINTS TO BE THOROUGHLY WIRE BRUSHED & CLEANED TO REMOVE SPATTERS, LOOSE SCALES, SLAGS, OIL, GREASE ETC.
- 7) ALL PRESSURE RETAINING WELDS SHALL BE OF FULL PENETRATION TYPE UNLESS OTHERWISE SPECIFIED.
- 8) THE VESSEL INSIDE SHALL BE THOROUGHLY CLEANED AND DRIED AFTER HYDRO TEST.
- 9) THE LIFTING DIMENSIONS SHALL BE DECIDED DURING ACTUAL FABRICATION.
- 10) DIMENSIONAL TOLERANCE ASK AT THE TIME OF FABRICATION.

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NO.	DESCRIPTION	QTY	UNIT
1	LEG BASE PLATE	1	15 2000 500 15 THK X 125 X 125 (HOLD)
2	LEG PAD PLATE	4	50 515 50 12 12 THK
3	LEG SUPPORT	4	Ø 2192 2000 100 10 10
4	LIFTING HOOK	2	Ø 2192 500 12 THK
5	R.F. PAD FOR LIFTING HOOK	2	50 515 50 12 12 THK X 60 X 250 Lg.
6	TOP ELIPTICAL DSH	1	50 515 50 12 12 THK X 125 X 125 (HOLD)
7	BOTTOM ELIPTICAL DSH	1	50 515 50 12 12 THK X 125 X 125 (HOLD)
8	TOP ELIPTICAL DSH	1	50 515 50 12 12 THK X 125 X 125 (HOLD)
9	SHELL	1	50 515 50 12 12 THK X 125 X 125 (HOLD)

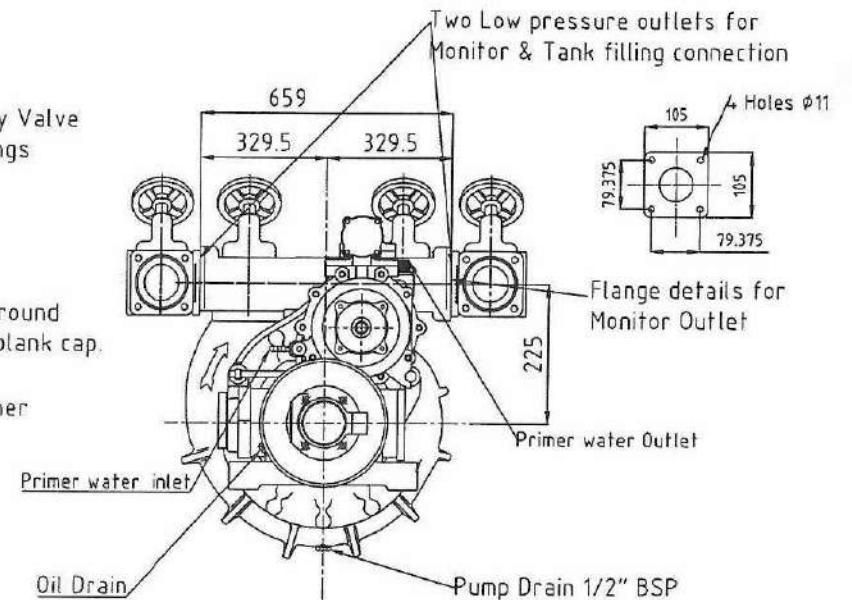
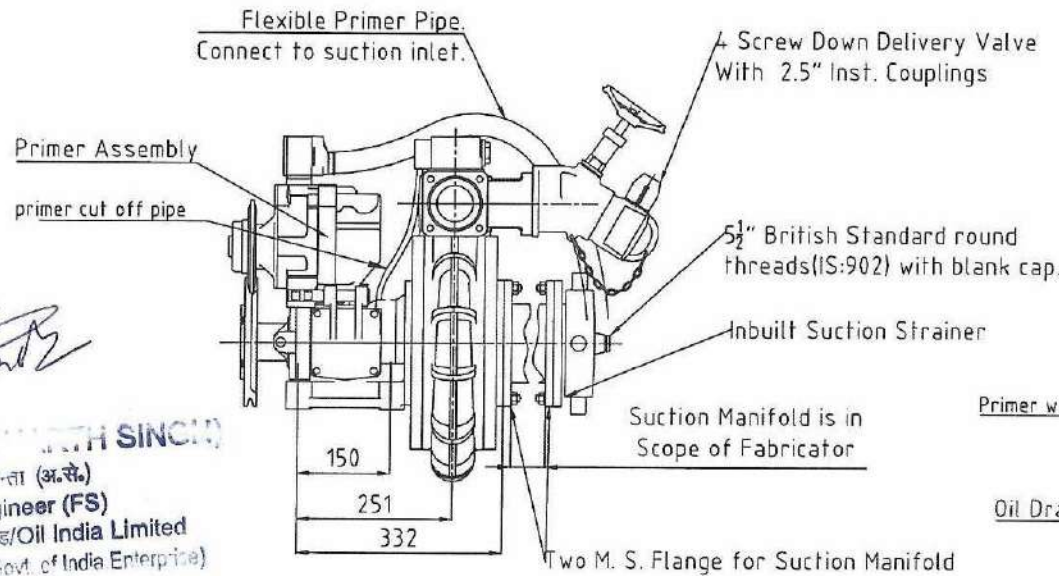
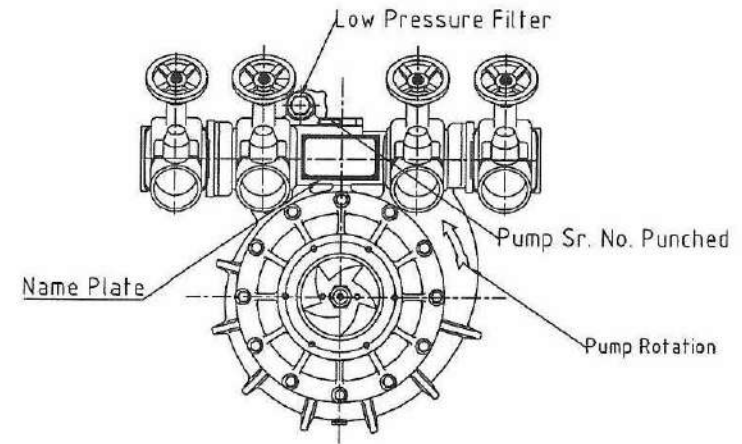
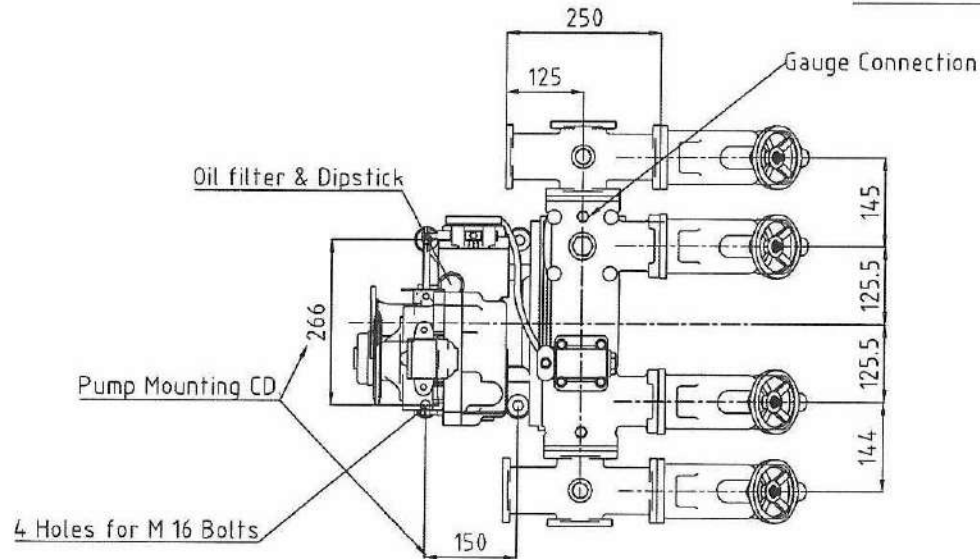
BILL OF MATERIAL

NO.	DESCRIPTION	QTY	UNIT
1	LEG BASE PLATE	1	15 2000 500 15 THK X 125 X 125 (HOLD)
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(SIDDHARTH SINGH)
मुख्य अभियंता (अ.से.)
Chief Engineer (FS)
ऑयल इंडिया लिमिटेड, Oil India Limited
(भारत सरकार के अधीन)

If in doubt ask.



G. A. Singh

G. A. SINGH

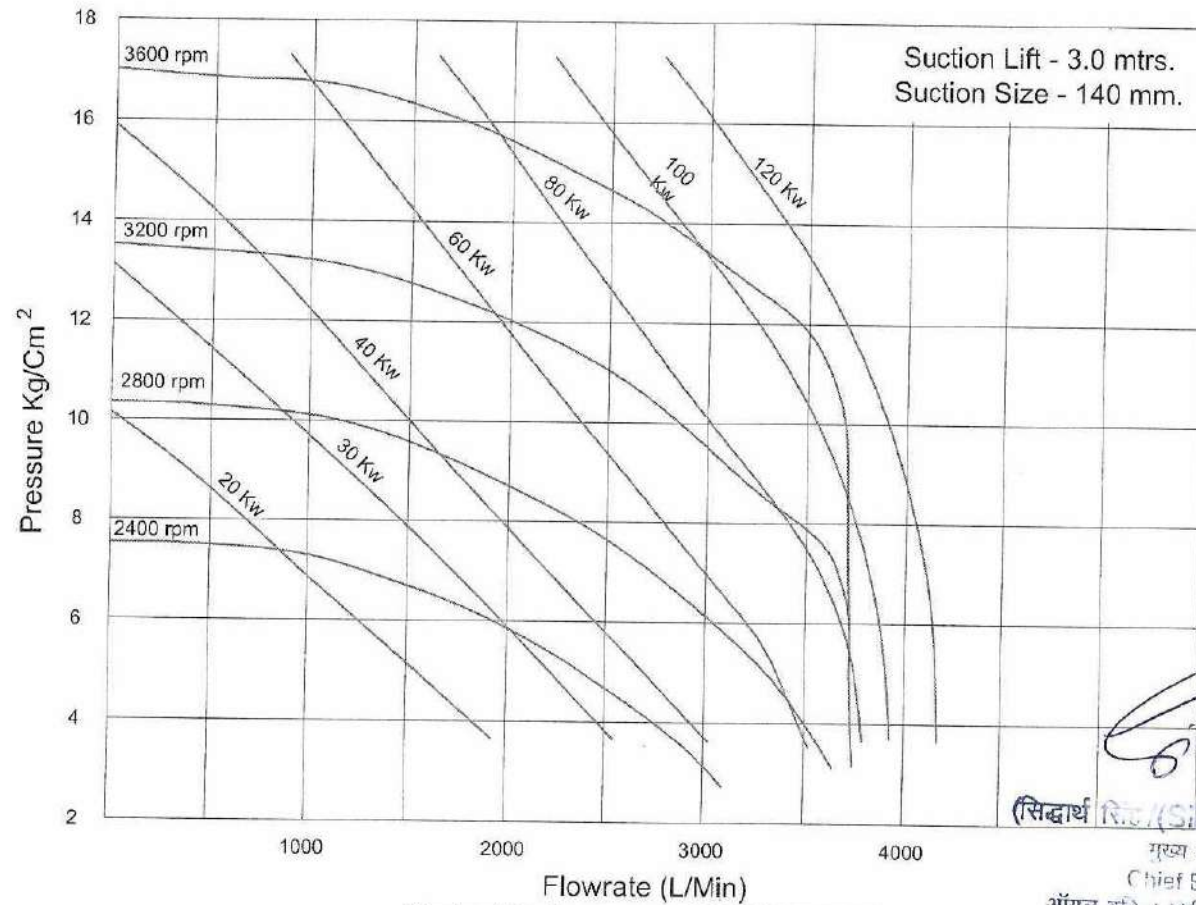
मुख्य अभियंता (अ.सं.)
Chief Engineer (FS)
ऑयल इंडिया लिमिटेड/Oil India Limited
राजस्थान क्षेत्र (Govt. of India Enterprise)
जोधपुर/Rajasthan Field
जोधपुर/JODHPUR

NOTE:

- Drive flange PCD, No. of. Holes Location Dia. must be given to firefly with order, otherwise Undrilled flange of Dia.120 will be supplied as standard
- This drawing is the property of Firefly Fire Pumps Pvt. Ltd. and must not be used or copied without permission in writing.
- Our policy is one of continuous development. We therefore reserve the right to amend drawing without prior notice.
- * Rated performance depends on power, please check Performance Curve for more details

DO NOT SCALE DRAWING REVISION :- 01	
फायरफ़्लाय	Firefly Fire Pumps Pvt. Ltd. C-7, MIDC GOKUL SHIRGAON KOLHAPUR 416224
TITLE	G. A. Drawing of MFV LP 1030 with Water Ring Primer
DWG NO.	100-0130W

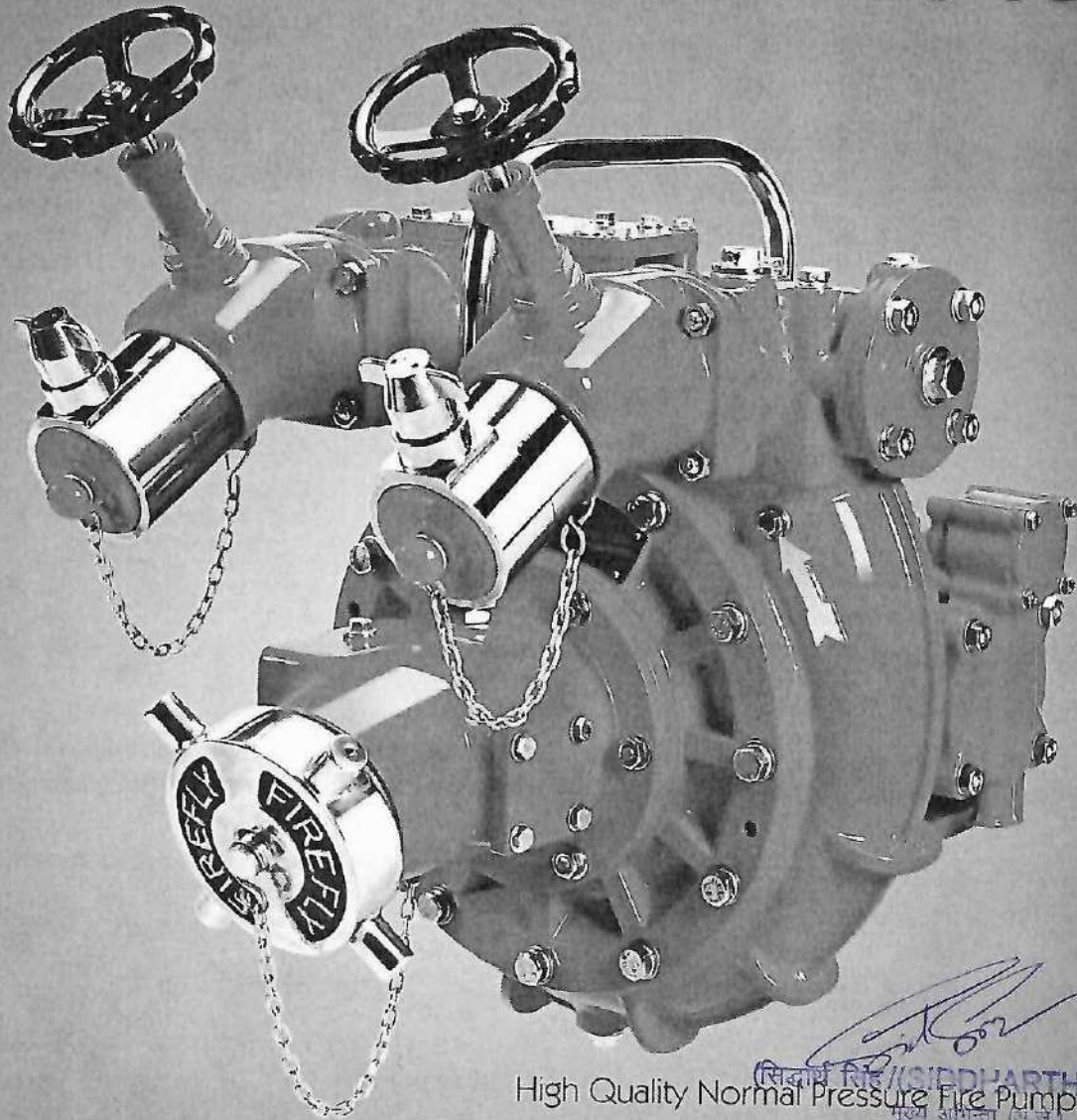
Firefly®



(सिद्धार्थ सिंह) (SIDDHARTH SINGH)

मुख्य अभियन्ता (अ.से.)
Chief Engineer (FS)
ऑयल इंडिया लिमिटेड/Oil India Limited
(भारत सरकार - राज्य)/(Govt. of India Enterprise)
राजस्थान क्षेत्र/Rajasthan Field
जोधपुर/JODHPUR

QUALITY FIRST WHEN SECONDS COUNT...



High Quality Normal Pressure Fire Pumps from

CHOOSE 'FIREFLY' FIRE PUMPS FOR DEPENDABLE
PERFORMANCE FOR YEARS TOGETHER.

KEY FEATURES :

- ▶ More Compact & Highly Improved Design
- ▶ Advanced Reciprocating Priming System For Rapid & Reliable Priming Up To 8 Mtrs Suction Height
- ▶ New Modular Discharge Manifold For Minimal & Easy Pipe Work
- ▶ Easy Front Access For Impeller And Internal Components
- ▶ Pump Has No Gaskets
- ▶ Simplicity In Pump Installation
- ▶ 100% Interchangeability And Faster Services Across The Country
- ▶ Innovative New Fireman Friendly "Insular Valve" Helps For Quicker Action On Field



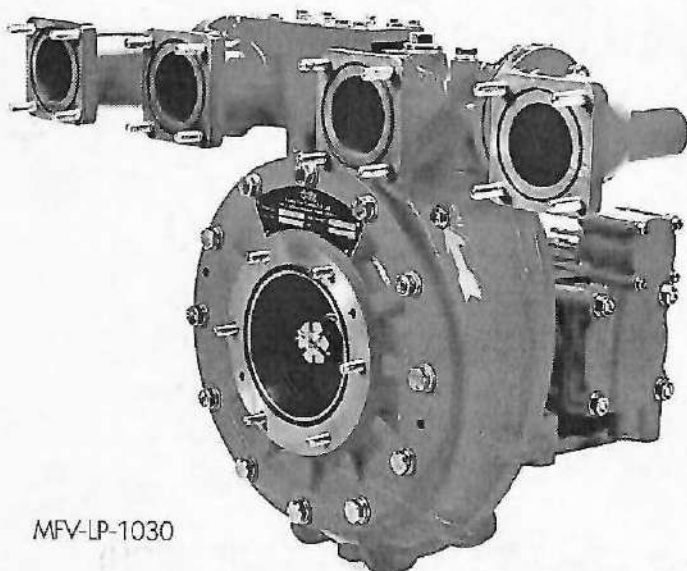
Chief Engineer
Firefly®
(भारत में निर्माण और वितरण के लिए)
(भारत में निर्माण और वितरण के लिए)
(भारत में निर्माण और वितरण के लिए)

RANGE OF 'FIREFLY' LP SERIES PUMPS

PERFORMANCE DATA	MFV - LP - 1020	MFV - LP - 1030	MFV - LP - 1040	MFV - LP - 1060
Rated Performance	2000 lpm @ 10 bar	3000 lpm @ 10 bar	4000 lpm @ 10 bar	6000 lpm @ 10 bar
Required Power (kw/hp)	52 kw / 70 hp @ 2950 rpm	80 kw / 107 hp @ 3250 rpm	97 kw / 130 hp @ 3000 rpm	150 kw / 205 hp @ 3300 rpm
Suction Inlet	100 mm	140 mm	140 mm	200 mm
Priming Performance Range	0 to 7.5 meters	0 to 7.5 meters	0 to 7.5 meters	0 to 7.5 meters
Recommended Priming Speed	2000 to 2200 rpm	2000 to 2200 rpm	2000 to 2200 rpm	2000 to 2200 rpm
Maximum Outlet Pressure – Low Pressure (EN Compliance)	17 bar	17 bar	17 bar	17 bar
Maximum Recommended Speed	3600 rpm	3600 rpm	3600 rpm	3600 rpm
Typical Dimensions (L/W/H)	710 / 470 / 650 mm 28 / 18.5 / 25.5 inches	710 / 720 / 650 mm 28 / 28.5 / 25.5 inches	710 / 720 / 685 mm 28 / 28.5 / 27 inches	710 / 720 / 685 mm 28 / 28.5 / 27 inches

* Test Conditions are at 3.0 mtrs lift at NTP conditions

* For capacities other than specified contact Technical Department



MFV-LP-1030

Innovative Addition "INSULAR VALVE"

The 'Firefly' fire pump now comes with an INSULAR VALVE as standard. The main advantages of this INSULAR VALVE are :

- INSULAR VALVE allows the pump operator to prime the pump even if any of the valves fitted on the delivery side (like delivery valves, monitor valve, cooling valve, hose reel valve etc.) are inadvertently fully or partially open or start leaking over the period.
- The priming time of the pump remains the same even if the delivery side of the pump has been extensively modified.
- The INSULAR VALVE is inbuilt & is fully automatic in action, totally maintenance & rust free.
- The INSULAR VALVE is compatible with water and water-foam mixtures.

'PRIMATIC' The New Generation Priming System

The Firefly 'PRIMATIC' is fully automatic reciprocating priming system. The system design is based on two stainless steel horizontally working pistons, having reputation for insensitivity to dirt. Primer activation & deactivation is controlled directly by pump pressure. Reliable even with suction heights up to 8 mtrs. (Attending vacuum capacity of 650 mm of Hg within 30 seconds at NTP conditions.)

Advantages of 'PRIMATIC'

- No Operating Levers Required.
- Insensitive to Polluted & Dirty Water.
- More Rapid Priming.
- Highly Reliable.
- Extremely Compact & Light in Weight.
- Low Wear & Tear, Maintenance Free.

OPTIONAL

- 'FIREFLY' Fully Automatic Water System
- Gun metal and sea water resistance Aluminum alloy construction.

Chief Engineer (FS)

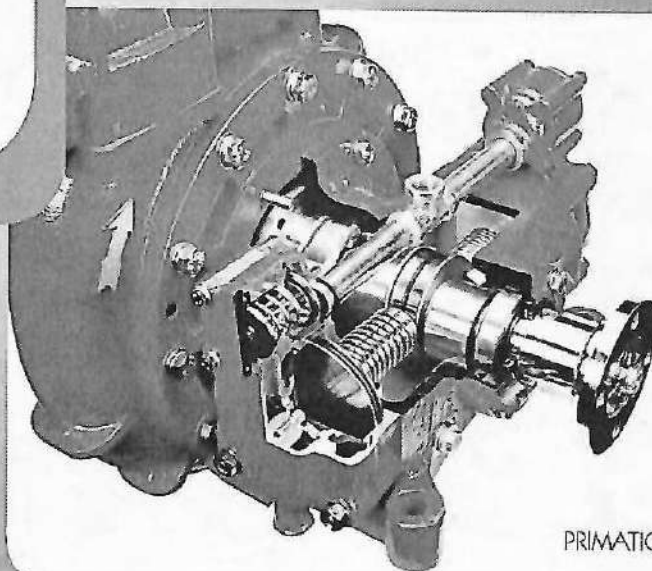
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(भारत सरकार का अधीन) (GOV. of India Enterprise)

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C-7, MID.C., GOKUL SHIRGAON, KOLHAPUR - 416234 [M.S.] INDIA.

■ Ph : +91 231 2671527, 2672359 ■ Fax : +91 231 2671061 ■ E-mail : info@fireflypumps.com ■ Web Site : www.fireflypumps.com



PRIMATIC

■ The right of technical modifications & improvements without prior notice is reserved
Pictures shown in the pamphlet do not necessarily depict details as may be described by & incorporated in a quotation.
■ Designed & Manufactured by Mahadeo Engineering Works.



AKRON[®]
BRASS COMPANY

Akromatic 1250 Master Stream Nozzle

STYLE 5160

Designed for flows from 250 to 1250 gpm (950-4800 lpm) - At 80 psi (5.5 bar) operating pressure

-Built-in stream shaper

Features

Designed for flows from 250 to 1250 gpm (950-4800 lpm) - At 80 psi (5.5 bar) operating pressure

-Built-in stream shaper

- Pyrolite Nozzle

- Manual Pattern Control

- 250-1250 gpm (950-4800 lpm) flow; 250 - 1000 gpm (950-3800 lpm) optional flow

- 2 1/2" or 3 1/2" (65 or 89 mm) Inlet

- No Teeth

- 9 1/2" (241 mm) Long

- 12 lbs. (26.8 kg)

Applications/Solutions

- Fire OEMs



Specifications

Style	5160
Certification(s)	NFPA 1964 COMPLIANT
Warranty	5 YEAR WARRANTY
Weight	12 lbs (5.4 kg)
Type	Master Stream
Material	Pyrolite
Brand	Akromatic
Swivel Inlet	2.5" or 3.5" (65 or 89 mm)
Length	9 1/2" (241 mm)
Flow (GPM)	250-1250 GPM
Flow (LPM)	950-4800 LPM

(सिद्धार्थ सिंह)/(SIDDHARTH SINGH)

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Akromatic 1250 Master Stream Nozzle

STYLE 5160

Akromatic 1250 Master Stream Nozzle Specifications

Combination fog and straight stream master stream nozzle with automatic flow mechanism that provides a flow range of either 250 to 1000 gpm or 250 to 1250 gpm at 80 psi. The nozzle shall be constructed of durable, lightweight Pyrolite.



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राजस्थान क्षेत्र/Rajasthan Field

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AKRON®
BRASS COMPANY

GP Manual Monitor

STYLE 3430

The GP Manual Monitor is the most cost effective, highest performing 1000gpm firefighting monitor found worldwide. The rugged, lightweight design was engineered using advanced computer aided design and testing technology.

Features

GP Manual Monitor

- Rated flow up to 1000 gpm (3800 lpm)
- Rotation Continuous 360°
- Elevation +90° to -45°
- Cast-in turning vanes & integrated removable stream shaper for maximum reach and stream performance
- Built in pressure gauge
- "T" handle manual control provides precise, easy positioning and control
- Compact, efficient design requires minimum mounting space Nozzle

Options:

- Style 487 GP Smooth Bore Tip 1 1/4", 1 3/8", 1 1/2"
- Style 489 Smooth Bore Tip 1 3/4", 2"
- Style 4445 & Style 4447 Nozzles
- Style 5147 Adjustable Flow
- Style 5150 Automatic
- Style 1545 SaberMaster
- 2420 Triple Stacked Tips Foam Nozzle Options
- Style 4445 & Style 4447 Fog Nozzle with 3621 Foam Tubes
- Style 4475 Akrofoam
- Style 3625 Foam Tube
- Style 3626 Foam tube with Dispersion Jaws



Specifications

Style	3430
Weight	15.4 lbs (7 kg)
Type	Deck Pipe
Material	Pyrolite
Brand	GP Manual
Width	11in (279.4mm)
Height	13.25in (336.55mm)
Depth	9.8in (248.9mm)

(सिद्धार्थ सिंह / (SIDDHARTH SINGH)

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Chief Engineer (FS)

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(भारत सरकार का उद्योग)/(Govt. of India Enterprise)

राजस्थान क्षेत्र/Rajasthan Field

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GP Manual Monitor

STYLE 3430

Shown with style 2499 stacked tips



(सिद्धार्थ सिंह)/(SIDDHARTH SINGH)

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Chief Engineer (FS)

ऑयल इंडिया लिमिटेड/Oil India Limited

(भारत सरकार का उपक्रम)/(Govt. of India Enterprise)

राजस्थान क्षेत्र/Rajasthan Field

जोधपुर/JODHPUR

GP Manual Monitor

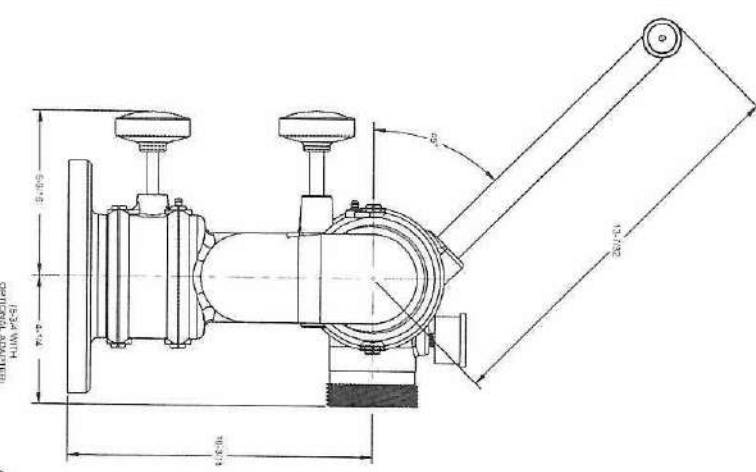
STYLE 3430

3430 GP Manual Monitor Specifications

The 1000 gpm rated monitor shall have a DN80 or 3" ANSI flanged inlet 2 5" waterway with a 2.5" NH discharge outlet. The discharge outlet shall have a built in stream shaper element. The vertical and horizontal travel locks shall incorporate round manual knobs. A "T" handle tiller bar shall be provided for vertical and horizontal position adjustment. Enhanced, compact design provides for less tip weight which translates to lower handle operating force. The monitor height shall not exceed 14-7/16" from the flange to the top of the outlet elbow (less nozzle) when in the vertical position. All elbows shall have cast-in turning vanes. The monitor shall have a vertical travel of 135° and horizontal travel of 360°.


(Siddharth Singh) (SIDDHARTH SINGH)
Chief Engineer (PS)
Oilfield Services Division, India Limited
(part of an oil field) (Oilfield Services Division)
New Delhi, India
New Delhi

1 2 3 4 5 6 7 8



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गुह्य अग्निता (अ.सं.)

Chief Engineer (F/C)

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AKKON
A FORTRESS FINTELL COMPANY
MODERN. DEDICATED.
GIVE BACKING

ASSEMBLY

GLOBAL MANUAL MONITOR
5000 Series

3430

D45626

weight (lbs)	124.0
Age (years)	17.0

0.500	0.500
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ANNEXURE-II

SCHEDULE OF RATES / RATES FOR PAYMENT (PRICE BID FORMAT)

Sl. Nos.	Description of items	QTY	UOM	Lumpsum charges for TPI Without GST in INR (A)	% GST On Quoted rate	GST Value IN INR (B)	TPI charges with GST (C=A+B) in INR	TPI Completion Period
10	Inspection of MULTIPURPOSE FIRE TENDER WITH CHASIS as per attached QAP a) QAP NO. HT/OIL/MFT/(R1) dtd. 16.11.2022 b) Reference Contract No. GEMC-511687791511675 DATED 17.10.2022 (SAP PO. 7912373) c) Quantity: 1 No. d) Place of inspection at manufacturer Premises: - M/s. Hindusthan Technologies Pvt. Ltd., Plot No. 5 & 7, Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha	1	No.					

Note:

1. The order shall be awarded to one bidder only i.e., the evaluation shall be carried out on Total Value wise L1 basis.
2. The above lumpsum prices are inclusive all taxes, duties, fees, levies, all expenses including travel, boarding, lodging of whatsoever nature or kind for entire scope of work other than GST mentioned below.
3. The taxes, duties, fees, charges, levies etc, if any included in the lumpsum prices to be used.
4. **GST:**
(i) Bidder shall quote separately GST as applicable for the taxable

services covered under scope, clearly indicating the rate and the amount of GST included in the bid and the classification of the respective service (as per GST rules) under which the GST is payable.

(ii) For Service received by OIL in India from a Service provider from outside India who does not have any fixed establishment or permanent address in India, the liability to pay GST lies with OIL. Hence, such Bidders shall submit a declaration to the effect that they do not have any fixed establishment or permanent address in India. However, at the time of evaluation of bids, GST as applicable shall be loaded on the taxable portion of services (or, on entire quoted / Contract value, if separate price break –up of taxable services and material to be supplied is not given).

Authorized Person's Signature: _____

Name: _____

Seal of the Bidder:

Annexure-III

BID EVALUATION CRITERIA (BEC)/BID REJECTION CRITERIA (BRC)

The bids shall conform to the specifications and terms & conditions given in the Tender. Bids shall be rejected in case the items offered do not conform to the required parameters stipulated in the technical specifications and to the relevant international/national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms & conditions, the following requirements must be particularly met by the bidders, without which the offer shall be considered as non-responsive and rejected:

BID REJECTION CRITERIA (BRC):

Vital criteria for acceptance of bids:-

The following vital conditions should be strictly complied with failing which the bid will be rejected:

A.1 Technical: Bid should conform to the scope of work stipulated in tender documents. Non-conforming bids shall not be considered and may be rejected.

A.2 Commercial:

A.2.1 Bid complete in all aspects should be submitted digitally signed by the authorised signatory of the bid failing which bid will be rejected.

A.2.2 Duly filled price format and acceptance to scope of work are to be submitted through OIL'S E-Procurement portal only, before the scheduled date and time for the tender closing. The documents are to be digitally signed by the authorized signatory.

A.2.3 The Priced bid shall contain only the prices duly filled in the price format of OIL's e-procurement engine. Filled in price format should be uploaded in the e-bid by bidders at "Notes and Price bid attachment". The online price field in SRM item data may be left blank. Prices if any filled in the online price field in SRM portal shall not be given any cognizance.

A.2.4 Offers of following kinds will also be rejected:

- (a) Offers not submitted in e-form through OIL's e-procurement engine.*
- (b) Offers which do not confirm unconditional validity of the bid, for 60 days from the date of opening of bid.*
- (c) Offers where the prices are not firm and / or with any qualifications.*
- (d) Offers which do not conform to OIL's price bid format.*
- (e) Offers and all attached documents not digitally signed using digital signatures issued by an acceptable Certifying Authority (CA) as per Indian IT Act 2000 by the person as per power of attorney submitted.*

B. Evaluation methodology:

*B.1 Price Evaluation criteria: - Evaluation shall be carried out on item wise L1 basis (i.e. each item shall be evaluated separately) and individual Letter of Award (LOAs) shall be issued against each item mentioning individual **Reference Contract No.** as mentioned against each item.*

B.2 PURCHASE PREFERENCE TO MICRO AND SMALL ENTERPRISES:

Bidders to note that Govt. of India under Micro, Small and Medium Enterprises Development (MSMED) Act 2006, has proclaimed the Public Procurement Policy, 2012 with effect from 1st April, 2012 in respect of procurement of goods and services, produced and provided by micro and small enterprises, by its Ministries, Departments and Public Sector Undertakings for promotion and development of Micro and Small Enterprises. Policy for procurement of goods from Micro and Small Enterprises (MSE) including Amendments is applicable. Bidders are requested to take note of the same and to submit their offers accordingly.

i) Categorisation and various criteria applicable to MSE bidders shall be guided by the Gazette notification no. CG-DL-E-26062020-220191 dated 26.06.2020 issued by Ministry of Micro, Small and Medium Enterprises.

ii) The bidder claiming as MSE status (MSE-General, MSE-SC/ST, MSE - Woman) against this tender has to submit following documents for availing the benefits applicable to MSEs:

a). Udyam Registration No. with Udyam Registration certificate

Note: In case bidding MSE is owned by Schedule Caste or Schedule Tribe entrepreneur, valid documentary evidence issued by the agency who has registered the bidder as MSE owned by SC/ ST entrepreneur/ Woman Entrepreneurs should also be enclosed.

iii) For availing benefits of Purchase Preference under Public Procurement Policy, the interested MSE Bidders must ensure that they are registered with the appropriate authority for the said service(s). The technical offer of such MSE Bidders must include a valid copy of relevant MSE Certificate issued by appropriate authority specifying the service as per tender. Purchase Preference of 15% (fifteen percent) shall be extended to the eligible MSE Bidder over non-MSE L1 Bidder and PO shall be awarded for full tender quantity on such MSE bidder, subject to matching their quoted rates/costs with non-MSE L1 Bidder.

*B.3. **Payment Terms:** 100% payment will be made only after submission of Inspection report in totality for the lot wise order quantities of OIL's Purchase order on its supplier as per SOW.*

C. General

C.1. Discount: Bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted prices. Discount of any type indicated separately will not be taken into account for evaluation purpose. However, in the event such offer without considering discount is found to be lowest, Corporation shall avail of such discount at the time of award of contract.

C.2. Other terms and conditions of the tender shall be as per General conditions of Contract (GCC). However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) mentioned here contradict the Clauses in the General conditions of Contract (GCC) of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

Annexure- IV:

Copies of Orders
placed on
suppliers

Contract



Contract No: GEMC-511687791511675

Generated Date: 17-Oct-2022

Bid/RA/PBP No.: [GEM/2022/B/2303220](#)

Organisation Details	Buyer Details
Type: Central PSU Ministry: Ministry of Petroleum and Natural Gas Department: OIL INDIA Limited Organisation Name: OIL INDIA Limited Office Zone: Oil India Limited	Designation: Secondary User Hamira1 Contact No.: 0291-2729473- Email ID: buycon28.mpng.rj@gembuyer.in GSTIN: 08AAAC02352C1ZX Address: Rajasthan Projects(Oil India Limited), Hamira Stores, Thaiyat- Hamira Jaisalmer, JAISALMER, RAJASTHAN-345033, India

Type of Inspection: Stage-wise Inspection

For Quality Assurance Plan please refer to the bid GEM/2022/B/2303220

Inspection Agency/ Authority: Board of Officers

Inspection Agency/ Authority: Board of Officers

Inspection Agency/ Authority: Board of Officers

Inspection Agency/ Authority: Board of Officers

Financial Approval Detail	Paying Authority Details
IFD Concurrence: No Designation of Administrative Approval: DGM(ES&HSE) Designation of Financial Approval: DGM(ES&HSE)	Payment Mode: Offline Designation: Payment Authority RP2 Email ID: pay1.oil.rj@gembuyer.in GSTIN: 08AAAC02352C1ZX Address: OIL INDIA LIMITED, RAJASTHAN PROJECT, 2-A, SARASWATI NAGAR, DISTRICT SHOPPING CENTRE, BASNI, JODHPUR, RAJASTHAN, Jodhpur, RAJASTHAN-342005, India Payment Timelines: Payments shall be made to the seller within 30 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10-days time as provided in clause 12 of GeM GTC)

Seller Details

GeM Seller ID: DEE4190001002597
 Company Name: HINDUSTHAN TECHNOLOGIES PRIVATE LIMITED
 Contact No.: 09437055701
 Email ID: admin@hindusthantechnologies.com
 Address: -,SHIVAPURI,SHIVAPURI,NIMPUR, CUTTACK, Orissa-754021, -
 MSME verified: Yes
 MSME Registration number: UDYAM-OD-07-0000836
 MSE Social Category: General
 MSE Gender: Male
 GSTIN: 21AACCH5297D1ZU

*GST / Tax invoice to be raised in the name of - Buyer

Product Details

#	Item Description	Ordered Quantity	Unit	Unit Price (INR)	Tax Bifurcation (INR)	Price (Inclusive of all Duties and Taxes in INR)
1	Product Name : Fire Tender Chassis Brand : HTPL Brand Type : Registered Brand Catalogue Status : Catalogue not verified by OEM Selling As : Reseller not verified by OEM Category Name & Quadrant : Fire Tender Chassis (Q3) Model: HTPL/MFT-09/OIL/Chassis HSN Code: 8705	1	pieces	1,585,980	NA	1,585,980
	Product Name : MULTIPURPOSE FIRE TENDER Brand : HTPL Brand Type : Registered Brand					

2	Catalogue Status : Catalogue not verified by OEM Selling As : Reseller not verified by OEM Category Name & Quadrant : MULTIPURPOSE FIRE TENDER (Q3) Model: HTPL/MFT-09/OIL-01 HSN Code: 8705	1	pieces	6,682,500	NA	6,682,500
3	Product Name : ICT charges for Specifications for Chassis For Multipurpose Fire Tender Brand : NA Brand Type : Unbranded Catalogue Status : Catalogue not verified by OEM Selling As : Reseller not verified by OEM Category Name & Quadrant : Addon Services for bid (Q3) Model: ICT HSN Code: HSN not specified by seller	1	pieces	16,020	NA	16,020
4	Product Name : ICT charges for Specifications of“ Multi Purpose Fire Tender” With Accessories Brand : NA Brand Type : Unbranded Catalogue Status : Catalogue not verified by OEM Selling As : Reseller not verified by OEM Category Name & Quadrant : Addon Services for bid (Q3) Model: ICT HSN Code: HSN not specified by seller	1	pieces	67,500	NA	67,500
Total Order Value (in INR)						8,352,000
Inspection Officer: Name: Board of Officers as nominated by the Buying Authority E-mail: notapplicable@boardofficers.in Phone: Not Applicable						
Inspection Officer: Name: Board of Officers as nominated by the Buying Authority E-mail: notapplicable@boardofficers.in Phone: Not Applicable						
Inspection Officer: Name: Board of Officers as nominated by the Buying Authority E-mail: notapplicable@boardofficers.in Phone: Not Applicable						
Inspection Officer: Name: Board of Officers as nominated by the Buying Authority E-mail: notapplicable@boardofficers.in Phone: Not Applicable						
Place of Inspection: Address: Hindusthan Technologies Pvt. Ltd. Plot No. 5 & 7, Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha Ph-0671-2491348, M-9437026348 person name: M K Sahoo contact number: 9439695800						
Place of Inspection: Address: Hindusthan Technologies Pvt. Ltd. Plot No. 5 & 7, Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha Ph-0671-2491348, M-9437026348 person name: M K Sahoo contact number: 9439695800						
Place of Inspection: Address: Hindusthan Technologies Pvt. Ltd. Plot No. 5 & 7, Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha Ph-0671-2491348, M-9437026348 person name: M K Sahoo contact number: 9439695800						
Place of Inspection: Address: Hindusthan Technologies Pvt. Ltd. Plot No. 5 & 7, Old Industrial Estate, Jagatpur, Cuttack-754021, Odisha Ph-0671-2491348, M-9437026348 person name: M K Sahoo contact number: 9439695800						
Consignee Detail						
S.No	Consignee	Item	Lot No.	Quantity	Delivery Start After	Delivery To Be Completed By
1	Designation: - Email ID: buycon19.mpng.rj@gembuyer.in Contact: 0291-2729473- GSTIN: 08AAACO2352C1ZX Address: Baghewala Oil Fields, Oil India Limited, Village Tavriwala, District Jaisalmer, JAISALMER, RAJASTHAN-345028, India	Fire Tender Chassis	-	1	17-Oct-2022	15-May-2023
		MULTIPURPOSE FIRE TENDER	-	1	17-Oct-2022	15-May-2023
Product Specification for Fire Tender Chassis						

Specification		Sub-Spec	Value	
Custom Specification		Custom Specification	Yes	
Installation Commissioning and Testing (ICT) details for the above item:				
% of Product Cost Payable on Product Delivery		70 %		
Min Cost Allocation for ICT as a % of product cost		1 %		
Number of days allowed for ICT after site readiness communication to seller		30 Days		
Seller Specification Document:				
1. SpecificationDocument1		mkp.gem.gov.in/catalog_data/catalog_support_document/70/33/018/CatalogAttrs/SpecificationDocument/2022/7/19/2022_07_19_19_21_27_chassis_2022-07-19-19-21-30_61634900feb36fdd6bf3fe3f595247bd.pdf		
Buyer Specification Document:				
1. SpecificationDocument		mkp.gem.gov.in/catalog_data/catalog_support_document/buyer_documents/1163858/54/78/703/CatalogAttrs/SpecificationDocument/2022/6/27/technical-specifications-chassis-for-multipurpose-f_2022-06-27-15-47-06_986f579c015177570ebe1fc0a5c63781.pdf		
Product Specification for MULTIPURPOSE FIRE TENDER				
Specification		Sub-Spec	Value	
Custom Specification		Custom Specification	Yes	
Installation Commissioning and Testing (ICT) details for the above item:				
% of Product Cost Payable on Product Delivery		70 %		
Min Cost Allocation for ICT as a % of product cost		1 %		
Number of days allowed for ICT after site readiness communication to seller		30 Days		
Seller Specification Document:				
1. SpecificationDocument1		mkp.gem.gov.in/catalog_data/catalog_support_document/70/33/018/CatalogAttrs/SpecificationDocument/2022/7/19/2022_07_19_19_28_06_mft_2022-07-19-19-28-09_80c85acf85419b2f9b47a12d234345c1.pdf		
Buyer Specification Document:				
1. SpecificationDocument		mkp.gem.gov.in/catalog_data/catalog_support_document/buyer_documents/1163858/54/78/703/CatalogAttrs/SpecificationDocument/2022/6/27/spec-for-supply-of-multi-purpose-fire-tender_2022-06-27-15-42-41_5f9a18903727fb543916f8338e609cc3.pdf		
Corrigendum				
1. GeM-Bidding-Corr-3537754-1.pdf : click here				
2. GeM-Bidding-Corr-3537754-2.pdf : click here				
3. GeM-Bidding-Corr-3537754-3.pdf : click here				
Buyer added Bid Specific Additional Scope of Work				
S.No	Document Title	Description	Applicable i.r.o. Items	Specifications Of“ Multi Purpose Fire
1	Bid evaluation Criteria-Bid Rejection Criteria(BEC-BRC)	Bidder's qualification criteria	Specifications For Chassis For	

	View		Multipurpose Fire Tender(1)	Tender" With Accessories(1)
2	Checklist for Bidder View	Checklist for Technical, Commercial and other parameters	Specifications For Chassis For Multipurpose Fire Tender(1)	Specifications Of" Multi Purpose Fire Tender" With Accessories(1)

Terms and Conditions

1. General Terms and Conditions-

- 1.1 This contract is governed by the [General Terms and Conditions](#), conditions stipulated to this Product/Service as provided in the Marketplace.
- 1.2 This Contract between the Seller and the Buyer, is for the supply of the Goods and/ or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or BID/Reverse Auction Additional Terms and Conditions (ATC), as applicable

2. Buyer Added Bid Specific Terms and Conditions-

2.1 Generic:

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address OIL's Baghewala Production Setup Village: Tavriwala Bikampur Nachana Jaisalmer.

2.2 Generic:

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

2.3 Purchase Preference (Centre):

Purchase Preference linked with Local Content (PP-LC) Policy:

The bid clause regarding "Preference to Make In India products" stands modified in this bid and shall be governed by the PPLC Policy No. FP-20013/2/2017-FP-PNG dated 17.11.2020 issued by MoP&NG as amended up to date. Accordingly, bidders with Local Content less than or equal to 20% will be treated as "Non Local Supplier". The prescribed LC shall be applicable on the date of Bid opening. Sanctions on the bidders for false / wrong declaration or not fulfilling the Local Content requirement shall be as per the PPLC policy. Further following additional provisions are added in the certification and verification of local content provision of the Preference to Make in India clause:

- In case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practicing cost accountant or practicing chartered accountant giving the percentage of local content is also acceptable.
- Along with Each Invoice: The local content certificate (issued by statutory auditor on behalf of procuring company) shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.
- The bidder shall submit an undertaking from the authorized signatory of bidder having the Power of Attorney along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.

2.4 Generic:

The buyer organization is an institution eligible for concessional rates of GST as notified by the Government of India. The goods for which bids have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. A certificate to this effect will be issued by Buyer to the Seller after award of the Contract. Sellers are requested to submit their bids after accounting for the Concessional rate of GST.

Applicable Concessional rate of GST :5%

Notification No.and date :3/2017 dated 28/06/2017

2.5 Generic:

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- Copy of PAN Card.
- Copy of GSTIN.
- Copy of Cancelled Cheque.
- Copy of EFT Mandate duly certified by Bank.

2.6 Generic:

Buyer Organization specific Integrity Pact shall have to be complied by all bidders. Bidders shall have to upload scanned copy of signed integrity pact as per Buyer organizations policy along with bid. [Click here to view the file](#)

2.7 Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

AMENDMENT No. 1 DATED 13.07.2022

1.0 This addendum is issued to amend the following clauses of the tender:

Sl. No.	Page No. of specification of Multipurpose	Clause No.	Existing Tender Clause &	Amended Tender Clause &
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	fire tender		Description	Description
1	1	1.1.2	A centrifugal type Water Pump of 3200 LPM discharge capacity at 10 Kg/cm ² (M/s Godiva, UK Make)	A centrifugal type Water Pump of 3200 LPM discharge capacity at 10 Kg/cm ² (Godiva/ Firefly Make)
2	1	1.1.5	Exhaust Ejector Primer	Deleted
3	5	2.8.26.4	Static stability of the fully laden Unit shall be checked to ensure that no overturning occurs till Unit attains tilting of 35 ± 1 degrees from horizontal.	Static stability of the fully laden Unit shall be checked to ensure that no overturning occurs till Unit attains tilting of 30 degrees from horizontal.
4	9	3.3.2.13	PESO/CCE approved removable spark arrestor (If chassis manufacturer not provided) fitted to the exhaust of the engine - 1 No.	Deleted
5	17	7.2.1	The pump shall be single stage & centrifugal type of Godiva Make.	The pump shall be single stage & centrifugal type of (Godiva/ Firefly Make).
6	17	7.2.2	The MOC of the pump shall be Brass	The MOC of the pump shall be Brass/ Gunmetal
7	17	7.2.5	The water pump with automatic water ring & ejector type priming device shall be installed.	The water pump with automatic water ring type priming device shall be installed.
8	20	10.1.(b)	Capacity: Automatic	Capacity: Variable flow

			flow from 300 to 1000 GPM single Nozzle with Jet, Spray & Fog Pattern	from 300 to 1000 GPM single Nozzle with Jet, Spray & Fog Pattern
9	20	11.1	Net capacity of water tank shall be of 4000 litres.	Net capacity of water tank shall be of 4500 litres.
10	20	11.9	The tank shall also have a cleaning hole of 250MM dia. Manhole shall be fitted with 50MM drain pipe with AUDCO make SS ball valve	The tank shall also have a cleaning hole of 250MM dia. Manhole shall be fitted with 50MM drain pipe with AUDCO/ L&T make SS ball valve
11	21	11.11	The inlet lines will be provided from AUDCO Make SS ball valve.	The inlet lines will be provided from AUDCO/L&T Make SS ball valve.
12	24	12.1.7	The tank shall also have a cleaning hole and drain pipe with AUDCO make S . S . ball valve	The tank shall also have a cleaning hole and drain pipe with AUDCO/L&T make S.S. ball valve
13	29	5	Make model & of Exhaust Ejector Primer	Deleted
14	29	14	Make model & of automatic nozzle	Make model & of Multipurpose nozzle

2.0 All other Terms and Conditions of the Tender/Bid Document (Considering all previous Amendments, if any) will remain unchanged.

Annexure - V
SPECIAL CONDITIONS OF CONTRACT (SCC)

1. Experience of TPI Personnel:

The TPI Agency shall only depute their personnel who have minimum 1 (one) year working experience (or) who have carried out minimum 2 (Two) Inspection jobs of similar items which covers most of the applicable standards and processes to be adopted for similar items as per scope & specification of Purchase order (PO). An undertaking in this regard shall be submitted by the TPI agency while submission of their Technical bids. OIL may on its own discretion verify the credentials of TPI personnel during any stage of inspection.

2. Quality of inspection Services:

The TPI agency shall be responsible to ensure complete quality of inspection services to be executed. All services shall be of the respective quality/kinds described in the contract / PO documents and/or in accordance with the instructions of OIL from time to time. If quality of any part of work is proved inferior than the acceptable quality, during execution or after completion of work, it shall be treated as TPI agency's failure in its obligations and accordingly action shall be taken as per termination clause mentioned in Tender. Moreover, all the payments and performance security shall be forfeited and TPI agency shall be barred to participate in any TPI empanelment from OIL's future and/or existing projects.

3. TPI Agency's Personnel:

3.1 TPI Agency shall ensure that it shall deploy adequate number of qualified personnel for providing inspection services as required by OIL for timely performance of services. An organization chart of the TPI Agency's key personnel shall be submitted. No person deployed for OIL's work shall be replaced without written permission of OIL. In case of misbehavior, proven incompetence or gross negligence, OIL shall require the replacement of the personnel deployed for assignment. These personnel shall be replaced with a competent person by the TPI agency immediately after taking approval from OIL. OIL also has the right to ask for replacement of TPI agency's personnel without assigning any reason. Agency shall also arrange and provide their personnel safety equipment's like helmet, goggles, safety dress, safety shoes, etc., at their own cost for protection of their personnel wherever required.

4. Mobilisation Period:

4.1 Contractor shall be required to mobilize their personnel for commencement of services at the specified site within a maximum of 7 (seven) days from the date of **first intimation of mobilization** from OIL for inspection after placement of Letter of Award (LOA).

4.2 Subsequently, TPI Agency shall depute its Inspectors at the location specified in notification by OIL within 7 (Seven) days of written intimation.

4.3 The TPI agency should mobilize/demobilize their TPI inspector(s) as per the approved "Work plan".

5. Third Party Inspection Agency's Deliverables:

5.1 Reports:

The different categories of reports covering the entire scope of work/ inspection indicating Imperfections, Non Conformities etc. along with photographs and statistics in both electronic and hard (print) copy are to be generated by agency are;

- Material inspection reports and relevant certificates,
- Relevant final certificates,

- Job completion report with all supportive documents.

5.2 Documentation & Data Management:

- All reports shall carry a unique identification number and table of contents. To enhance authenticity, all the hard (print) copies shall be duly signed & stamped by the TPI agency Inspector/Nodal Representative. Electronic copies of the reports in editable (native files) formats shall be forwarded to OIL.
- 01 hard (print) copy of report shall be submitted to OIL's supplier for removal of defects/non conformity before completion and for his record.
- 03 copies of the same report shall be submitted to OIL.
- A Register of visit by TPI agency shall be maintained from time to time, in which date wise visits along with Inspection activities carried out by agency's Inspectors and their remarks if any shall be maintained clearly.

6. Completion Schedule:

The completion period of TPI contract shall be within delivery period of respective orders from the date of issue of Letter of Award (LOA). The Contract shall be effective from the date of LOA. The TPI inspection shall be carried out concurrently within the Delivery period specified in the PO.

However, OIL reserve its right for the extension of contract for further period till actual completion of the work on same quoted rate/price and terms and conditions and shall be binding on the TPI agency.

7. Terms and Mode of Payment:

- 7.1 TPI agency shall raise the Invoice of Inspection charges after completion of TPI, giving all the relevant information.
- 7.2 Payment as per the contract shall be made on receipt of invoice complete in all respects along with submission of TPI documents. The invoices should indicate the GST registration number of Contractor.
- 7.3 OIL shall verify the invoice and make the payment as per terms and conditions agreed in Contract.
- 7.4 Payment shall be made only for the actual Inspection services/work carried out, duly certified by OIL. The decision of "OIL" regarding this shall be final and binding to the TPI agency.
- 7.5 The following documents which TPI agency need to furnish additionally wherever applicable while claiming the payments are:
 - I. Job completion reports.
 - II. List of items inspected.
 - III. Any other document required but not specified but required.

- 7.6 Final bill along with 'No Claim certificate' shall be submitted within 30 days of completion of contract period.
- 7.7 In case of dispute concerning the invoice(s), OIL shall return said invoice(S) to the TPI agency within 14 days from its/their receipt specifying in writing the reasons for rejection.
- 7.8 The agency shall send its claim for payment in writing as per "Proforma for Bill for Payments", when contractually due, along with relevant documents etc., duly signed & stamped with date, While claiming payment, the agency is also to certify in the bill that the payment being claimed is strictly in terms of the contract awarded.
- 7.9 All Bills along with relevant supporting documents shall be submitted in triplicate addressed to GM-Materials, Materials Department, Oil India Limited, Duliajan, Assam - 786602. The TPI agency should submit the invoice in sealed envelopes superscripting the following:
- a. LOA/Contract No. :
 - b. Vendor Name & No.:
 - c. Invoice No. & Date :
 - d. Reference contract no. (as mentioned in Annexure-II):
 - e. Email Id of the vendor /Supplier :
- 7.10 The invoices should contain the following particulars as per Rule 4A of GST Rules:
- a. The Name, address & registration number of service provider (Contractor)
 - b. The Name and address of the service receiver (OIL, Duliajan)
 - c. Description, classification and value of taxable service and
 - d. GST amount (GST and applicable cess, etc., separately)

Payment shall be made within 30 (thirty) calendar days from the date of receipt of invoice complete in all aspects at the above office.

The original invoice should also accompany the following documents/details:

(I) ALONG WITH INVOICE:

Following documents /details should be invariably furnished along invoice:

- a) Invoice (i.e. Tax invoice as per relevant GST rules, in original and duplicate, clearly indicating GST registration number, Service Classification, Rate and amount of GST shown separately).
- b) Details of statutory payments like EPF and ESI / medical and workmen compensation insurance of previous month. (For applicability of EPF & ESI please refer clause below)
- c) Undertaking by the Contractor regarding compliance of all statutes.
- d) Certificate by the Contractor stating that Inspectors have been paid not less than Minimum Wage as per contract conditions, (As applicable)
- e) Any other document specifically mentioned in the Contract, or supporting documents in respect of other claims (if any), permissible under the Contract.
- f) Copy of valid registration certificate under the GST Rules/Act.
- g) Particulars required for making payments through 'Electronic Payment Mechanism', in accordance with the clause on 'MODE OF PAYMENT' appearing in contract.

- h) Copy of EPF Registration & ESI Registration/ medical and workmen compensation Insurance.
- i) Mobile No. (Optional) & E-mail ID.

8. EPF:

- a. Contractor falling under the purview of EPF Act/Rules at the time submission of Bid:
(Please refer GENERAL CONDITIONS OF CONTRACT (GCC) Contractor should either submit valid EPF Code no. (along with supporting documentary evidence thereof attested by notary public) or submit an undertaking to produce the same subsequent to award of contract within 30 days of issue of LOA and before the signing of the contract , failing which his EMD/ SD shall stand forfeited and contract be cancelled.
- b. Contractor not falling under the purview of EPF Act/ Rules at the time of submission of Bid:
 - i. Contractor should submit an undertaking that at present they are not covered under the EPF Act/Rules, supported by a certificate from a Chartered Accountant towards this effect and should submit the same along with the techno commercial offer, failing which his offer will be rejected.
 - ii. The Contractor further has to give an undertaking that they shall obtain and produce the EPF code No. within 30 days from the date on which they fall under the provision of EPF Act/ Rules, during the currency of the contract period, failing which his EMD/SD shall stand forfeited and contract be cancelled.

9. Delay in the TPI Agency's Performance:

- 9.1 The time and the date specified in the contract shall be deemed to be the essence of the contract and the agency shall perform the Inspection services under the contract within the time schedule specified by OIL.
- 9.2 Any delay attributable to the agency in maintaining its contractual obligations towards inspection and performance of services shall render the agency liable to any or all of the following sanctions besides any administrative action:
 - a) Imposition of liquidated damages.
 - b) Forfeiture of its performance security and
 - c) Termination of the contract for default.

10. Delay in Mobilization and Liquidated Damages:

If the TPI agency fails to commence any or all of the inspection services within the time frames(s) incorporated in the contract, OIL shall, without prejudice to other rights and remedies available to OIL under the contract, impose the following penalties;

- a. TPI agency shall mobilize and deploy the required resources like provisions, personnel, equipment's, etc., so as to commence the services at Vendor's works or the location on specified date mentioned in inspection call letters.
- b. If the TPI agency fails to mobilize and deploy the required resources and /or fails to commence the services within the period specified in sub clause (a) above, OIL shall have, without prejudice to any other right or remedy in law or contract including subclause(c) below, the right to terminate the contract.

- c. If the TPI agency is unable to mobilize/deploy the required resources and commence the services within the period specified in sub clause (a) above, it may request OIL for extension of the time with unconditionally agreeing for levy and recovery of LD. Upon receipt of such a request, OIL may at its discretion, extend the period of mobilization and shall recover from the contractor, as an ascertained and agreed Liquidated Damages, a sum equivalent to 0.5 % of the respective work over value, for each week of delay or part thereof, subject to a minimum of 7.5 % of the contract value.
- d. LD will be calculated on the basis of contract value excluding duties and taxes, where such duties/taxes have been shown separately in the contract. The parties agree that the sum specified above is not a penalty but a genuine pre- estimate of the loss /damage which will be suffered by OIL on account of delay on the part of the Contractor and the said amount will be payable without proof of actual loss of damage caused by such delay.

11. Termination for Default:

11.1 OIL, without prejudice to any other contractual rights and remedies available to it (OIL), may be written notice of default sent to the agency, terminate the contract in whole or in part, if the agency fails to deliver any contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by OIL in following circumstances.

- a. Failure to undertake services / work as per scope.
- b. Lapses in providing the services in accordance with contract or failure to provide services to the satisfaction of the OIL.
- c. Delay in providing services for reasons solely attributable to the TPI agency.
- d. Failure to provide agreed personnel for the assignment.
- e. Unapproved substitution of any personnel on the assignment.
- f. Failure to meet standards and to follow Good Industry Practices.
- g. Non-observation of safety rules/statutory requirements, misbehavior/ misconduct by TPI agency or Sub-contractors.
- h. Service breach of any obligations under contract by TPI agency or Sub-contractors.

11.2 In the event of OIL terminates the contract in whole or in part, OIL shall pay to TPI agency only such portion of services which have been satisfactorily completed by the agency and approved by OIL prior to the termination subject to the right of OIL to deduct any amount due/recoverable from the agency under provision of the contract.

All jobs/services whether finished or in progress at the time of termination shall be property of the OIL and all documents of whatsoever nature in relation to the work shall be handed over to OIL. After termination of the contract TPI agency shall forthwith vacate the OIL premises without causing any damages to their facilities.

Annexure VI
GENERAL CONDITIONS OF CONTRACT (GCC)

1.0 APPLICABILITY, DEFINITION & INTERPRETATION:

1.1 Applicability

All clauses in the General Conditions of Contract [GCC] shall apply to all transactions except as otherwise stated in the Special Conditions of Contract [SCC] and/or BEC-BRC. Furthermore, in the event if there is any conflict between the Principal text of the Agreement and the Appendixes, the Principal text will prevail.

1.2 Definition & Interpretation

In the contract (as hereinafter defined) the following words and expressions shall have the meaning hereby assigned to them except where the context otherwise requires:

1.2.1 COMPANY/OIL/Operator:

Shall mean Oil India Limited [OIL], Rajasthan Field, Jodhpur a public sector undertaking, incorporated under COMPANY's Act 1956 having its registered office at Duliajan-786602, Assam, India and includes its successor and permitted assigns.

1.2.2 CONTRACTOR:

Shall mean the person or persons, firm or COMPANY or corporation incorporated in India or abroad, who has been awarded with the contract and includes contractor's legal representatives, his successors and permitted assigns.

1.2.3 Contract:

Shall mean a written agreement between the COMPANY and the CONTRACTOR for execution of the services/works including all contract documents and subsequent amendments, if any.

1.2.4 Site:

Shall mean the place in which the operations/services are to be carried out or places approved by OIL for the purposes of the CONTRACT together with any other places designated in the CONTRACT as forming part of the site.

1.2.5 COMPANY's Site Representative/Engineer:

Shall mean the person or the persons appointed by the COMPANY from time to time to act on its behalf at the site for overall co- ordination, supervision and project management at site.

1.2.6 Sub-Contract:

Shall mean order/ contract placed by the CONTRACTOR for any portion of the CONTRACT or work sublet with necessary written consent of COMPANY on third party. Such sub-letting shall not relieve the CONTRACTOR from any obligation, duty or responsibility under the CONTRACT.

1.2.7 Sub-Contractor:

Shall mean any person or firm or COMPANY (other than CONTRACTOR) to whom any part of the work has been entrusted by CONTRACTOR, with written consent of OIL or the persons appointed by OIL, successors and permitted assigns of such persons, firm or COMPANY.

1.2.8 Contractor's Representative:

Shall mean such person/or persons duly appointed representative at the site and base as the CONTRACTOR may designate in writing to the COMPANY as having authority to act for the CONTRACTOR in matters affecting the work and to provide the requisite services.

1.2.9 Contract Price/Value:

Shall mean the sum accepted or the sum calculated in accordance with the rates accepted in tender and/or the contract rates as payable to the CONTRACTOR for the entire execution and completion of the services/works, including amendments/modification/change order issued by the COMPANY.

1.2.10 Firm price:

The prices will remain unchanged, except for statutory changes, during currency of the CONTRACT unless specifically agreed to in writing by COMPANY.

1.2.11 Service/Works/Operations:

Shall mean and include all items and things to be supplied/done and all work /Service to be performed by the CONTRACTOR as specified in the Scope of Work under this CONTRACT and shall also include all extra, additional, altered or substituted works/services as required for the purpose of successful execution of the Contract.

1.2.12 Equipment/Materials/Goods :

Shall mean and include any equipment, machinery, instruments, stores, goods which CONTRACTOR is required to provide to the COMPANY for/under the CONTRACT and amendments thereto.

1.2.13 Drawings:

Shall mean and include all Engineering sketches, general arrangements/ layout drawings, sectional plans, all elevations, photographs, etc. related to the CONTRACT together with modification and revision thereto.

1.2.14 Specifications:

Means and includes all technical specifications, provision attached and referred to in the tender/contract document regarding method and manner of performing the services and qualities of the service/materials to be provided under the contract and also as modified by the COMPANY/its site representative during the execution of contract in the best interest of service.

1.2.15 Engineer In-charge (EIC):

Shall mean the person designated from time to time by the COMPANY and shall include those who are expressly authorized by the COMPANY to act for and on its behalf for operation of the contract.

1.2.16 Inspectors:

Shall mean any person or outside Agency nominated by COMPANY to inspect equipment, materials and services, if any, in the CONTRACT (stage wise as well as final) as per the terms of the CONTRACT.

1.2.17 Tests:

Shall mean such process or processes to be carried out by the CONTRACTOR as are prescribed in the CONTRACT, considered necessary by the COMPANY or their representative to ascertain quality, workmanship, performance and efficiency of equipment or services thereof.

1.2.18 Approval:

Shall mean and include the written consent duly signed by COMPANY or their authorized official in respect of all documents, drawings or other particulars in relation to the CONTRACT

1.2.19 Day:

Shall mean a calendar day of twenty –four (24) consecutive hours beginning at 00:00 hours with reference to local time at the site.

1.2.20 Month:

Shall mean a calendar month as per Gregorian calendar.

1.2.21 Year:

Shall mean calendar year as per Gregorian calendar.

1.2.22 Working day:

Means any day which is not declared to be holiday by the COMPANY.

1.2.23 Bid/offer:

Shall mean the proposal/Offer along with supporting documents submitted by the bidder in response to the tender or enquiry in accordance with the terms of Tender or Enquiry, for consideration by COMPANY, prior to award of contract.

1.2.24 Guarantee:

Shall mean the period and other conditions governing the warranty/guarantee of the services as provided in the CONTRACT.

1.2.25 Mobilization:

Shall mean rendering the equipment fully manned and equipped as per CONTRACT and ready to begin work at site designated by the COMPANY and accepted by the COMPANY after inspection.

1.2.26 De-mobilization:

Shall mean the removal of all items forming part of the Mobilization from the site of the COMPANY and inspection and acceptance thereafter by the COMPANY including compliance of requirement in relation to re-export of imported equipment/materials under concessional duty scheme in accordance with relevant notification from Customs Authorities.

1.2.27 Willful Misconduct:

Shall mean intentional disregard of good and prudent standards of performance or proper conduct under the Contract with knowledge that it is likely to result in any injury to any person or persons or loss or damage of property of the Company or Third Party.

1.2.28 Gross Negligence:

Shall mean any act or failure to act (whether sole, joint or concurrent) by a person or entity which was intended to cause, or which was in reckless disregard of or unjustifiable indifference to, avoidable and harmful consequences such person or entity knew, or should have known, would result from such act or failure to act. Notwithstanding the foregoing, Gross negligence shall not include any action taken in good faith for the safeguard of life or property.

1.2.29 Criminal Negligence:

Shall mean that the crime happened negligently, there was duty of care upon the Person but inadvertently due to his negligence, the duty was breached, which causes harm to the people in the form of death or serious injury.

1.2.30 GST Legislations:

‘GST legislations’ means ‘any or all of the following legislations as may be applicable to the CONTRACTOR and OIL:

- (A) The Central Goods & Services Tax Act, 2017;
- (B) The Integrated Goods & Services Act, 2017;
- (C) The Union Territory Goods & Services Tax Act, 2017;
- (D) The respective State Goods & Service Tax Acts’
- (E) The Goods and Services (Compensation to States) Act, 2017
- (F) The Customs Act and the Customs Tariff Act.
- (G) Any other applicable Act related to GST

2.0 CONTRACT DOCUMENT:

2.1 Governing language: The governing language for the CONTRACT shall be English. All CONTRACT documents and all correspondence and communication to be given and all other documentation to be prepared and supplied under the CONTRACT shall be written in English and the CONTRACT shall be construed and interpreted

in accordance with English language.

2.2 Entire Agreement: The CONTRACT constitutes the entire agreement between OIL and the CONTRACTOR with respect to the subject matter of the CONTRACT and supersedes all communication, negotiations and agreement (whether written or oral) of the parties with respect thereto made prior to the date of this agreement, unless such communication(s) expressly forms part of the contract or included by reference.

2.3 Amendment in CONTRACT: No Amendment of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto. OIL shall not be bound by any printed conditions, provisions in the CONTRACTOR's BID, forms of acknowledgement of CONTRACT, invoice and other documents which purport to impose any condition at variance with or supplement to CONTRACT.

3.0 WAIVERS AND AMENDMENTS:

3.1 Waivers: It is fully understood and agreed that none of the terms and conditions of this contract shall be deemed waived by either party unless such waiver is executed in writing only by the duly authorized representatives of both the parties. The failure of either party to execute any right shall not act as a waiver of such right by such party.

3.2 Change Program: It is agreed that CONTRACTOR shall carry out work in accordance with the completion program (e.g. Drilling programme) to be furnished by the COMPANY, which may be changed from time to time by reasonable modifications in the program as COMPANY sees fit. COMPANY's instruction in this regard shall be final and binding.

4.0 CONTRACT TIMELINE:

4.1 Effective Date of Contract: The contract shall become effective as of the date COMPANY notifies the CONTRACTOR in writing that it has been awarded the contract. This date of issuance of Letter of Award (LOA) by the COMPANY will be the Effective Date of Contract. All terms and conditions of the contract shall come into force with the date of issuance of LOA.

4.2 Date of Commencement of Operation:

The date on which the mobilization is completed in all respects and CONTRACTOR is ready to commence operation as per the contract provision [Certified by the COMPANY's representative] will be treated as the date of Commencement of Operation.

4.3 Duration of the contract:

The contract shall be valid for a period as defined in the LOA and Special Conditions of Contract [SCC].

5.0 SCOPE OF WORK/CONTRACT:

Scope of the CONTRACT shall be as defined in the CONTRACT, specifications, drawings and Appendices.

6.0 GENERAL OBLIGATION OF CONTRACTOR:

CONTRACTOR shall, in accordance with and subject to the terms and conditions of this Contract:

- 6.1** Perform the work described in the Terms of Reference/Scope of Work. The CONTRACTOR shall execute the work with professional competence and in an efficient and workman like manner.
- 6.2** Except as otherwise provided in the Terms of Reference and the special Conditions of the contract, employ all labours/personnel as required to perform the work.
- 6.3** Perform all other obligations, work and services which are required by the terms of this contract or which reasonably can be implied from such terms as being necessary for the successful and timely completion of the work.
- 6.4** Comply with all applicable statutory obligations specified in the contract.
- 6.5** CONTRACTOR shall be deemed to have satisfied himself before submitting their bid as to the correctness and sufficiency of its bid for the services required and of the rates and prices quoted, which rates and prices shall, except insofar as otherwise provided, cover all its obligations under the contract.
- 6.6** CONTRACTOR shall be deemed, prior to submitting their bids, to have satisfied themselves about the weather conditions, working culture in the area, socio-political environment, safety & security aspects, law & order situation and law of the land, and obtain for themselves all necessary information as to the risks, contingencies and all other circumstances, which may influence or affect the various obligations under the Contract.
- 6.7** CONTRACTOR shall give or provide all necessary supervision during the performance of the services and as long thereafter within the warranty period as COMPANY may consider necessary for the proper fulfilling of CONTRACTOR's obligations under the contract.

7.0 GENERAL OBLIGATION OF COMPANY:

COMPANY shall, in accordance with and subject to the terms and conditions of this contract:

- 7.1** Pay CONTRACTOR in accordance with terms and conditions of the contract.
- 7.2** Allow CONTRACTOR access, subject to normal security and safety procedures, to all areas as required for orderly performance of the work as specified in the Scope of Works of the contract or work connected therewith.
- 7.3** Perform all other obligations required of COMPANY by the terms of this contract.

8.0 DUTIES AND POWER /AUTHORITY:

8.1 OIL's site representative/engineer:

The duties and authorities of OIL's site representative/engineer are to act on behalf of OIL for:

- i. Overall supervision, co-ordination and Project Management at site

- ii. Proper and optimum utilization of equipment and services.
- iii. Monitoring of performance and progress
- iv. Commenting/ countersigning on reports made by the CONTRACTOR's representative at site in respect of works, receipts, consumption etc. after satisfying himself with the facts of the respective cases.
- v. He shall have the authority, but not obligation at all times and any time to inspect/test/examine/ verify any equipment machinery, instruments, tools, materials, personnel, procedures and reports etc. directly or indirectly pertaining to the execution of the work. However this shall not construe to imply an acceptance by the inspector.

Hence, the overall responsibility of quality of work shall rest solely with the CONTRACTOR.

- vi. Each and every document emerging from site in support of any claim by the CONTRACTOR has to have the countersignature/ comments of the OIL's representative/engineer without which no claim shall be entertained by the OIL.

8.2 CONTRACTOR's representative:

- (a) The CONTRACTOR's representative shall have all the powers requisite for the performance of the Service/Works, subject to holding due authorisation from the CONTRACTOR.
- (b) Representative(s) shall liaise with OIL's representative/engineer for the proper co-ordination and timely completion of the works and on any matter pertaining to the works.
- (c) Representative(s) shall extend full co-operation to OIL's representative/inspector/engineer in the manner required by them for supervision/inspection/observation of equipment, material, procedures, performance, reports and records pertaining to works.
- (d) To have complete charge of CONTRACTOR's personnel engaged in the performance of the work and to ensure compliance of rules and regulations and safety practice.

9.0 Personnel to be deployed by contractor:

CONTRACTOR warrants that it shall provide competent, qualified and sufficiently experienced personnel to perform the work correctly and efficiently.

- 9.1** The CONTRACTOR should ensure that their personnel observe all statutory safety requirement including those prescribed by the COMPANY. Upon COMPANY's written request, CONTRACTOR, entirely at its own expense, shall remove immediately any personnel of the CONTRACTOR determined by the COMPANY to be unsuitable and shall promptly replace such personnel with personnel acceptable to the COMPANY. Replacement personnel should be mobilized within 15 days from the date of issuance of notice without affecting the operation of the COMPANY.
- 9.2** The CONTRACTOR shall be solely responsible throughout the period of the contract for providing all requirements of their personnel including but not limited

to, their transportation to & fro from Rajasthan/field site, enroute/ local boarding, lodging, personal protective gear & medical attention etc. COMPANY shall have no responsibility or liability in this regard.

9.3 However, COMPANY shall provide available medical assistance/facilities to CONTRACTOR's Personnel in case of emergency at its own establishment on chargeable basis.

9.4 CONTRACTOR's key personnel shall be fluent in English language (both writing and speaking).

10.0 PERFORMANCE SECURITY:

10.1 On receipt of notification of award from the COMPANY, the CONTRACTOR shall furnish the Performance Security to COMPANY within 15 (fifteen) days from the date of issue of LOA for an amount specified in the Forwarding Letter and Letter of Award (LOA) as per Proforma-Form and must be in the form of a Bank Draft/ Cashier's cheque/Banker's cheque*/NEFT/RTGS/Electronic fund transfer to designated account of OIL# or Fixed Deposit Receipt (account OIL INDIA LIMITED) or irrevocable Bank Guarantee or irrevocable Letter of Credit (LC) from:

a. Any schedule Indian Bank or Any Branch of an International bank situated in India and registered with Reserve Bank of India as scheduled foreign bank in case of domestic CONTRACTOR/service provider.

OR

b. Any scheduled bank in India or from International bank who has its branch in India registered with Reserve Bank of India, in case of foreign CONTRACTOR/service provider.

OR

c. Any foreign Bank which is not a Scheduled Bank in India, provided the Bank Guarantee issued by such Bank is counter-guaranteed by any Branch situated in India of any Scheduled Bank incorporated in India.

Note: Bank Guarantee issued by a Scheduled Bank of India at the request of some other Non-Schedule Bank of India shall not be acceptable.

10.2 Bank Guarantee issued by a Bank, amongst others, must contain the following particulars of such bank:

Full address

Branch Code

Code Nos. of the authorized signatory with full name and designation.

Phone Nos.

Fax Nos.

E-mail address.

10.3 The domestic CONTRACTOR/service provider(s) will have to submit the Bank Guarantee from any of the scheduled banks and on non- judicial stamp paper of requisite value as per the Indian Stamp Act, purchased in the name of the issuing banker.

10.4 The foreign CONTRACTOR/service provider(s) will submit the Bank Guarantee from Banks of Indian origin situated in their country. In case no such bank of Indian origin is situated in their country, the Bank Guarantee may be submitted

from the bankers as specified above.

- 10.5** The Performance Security shall be denominated in the currency of the contract.
- 10.6** The Performance Security specified above must be valid for the entire duration of the Contract and claim period should be valid for a minimum of 03 (three) months beyond the contract period. The Performance Security will be discharged by COMPANY not later than 30 days following its expiry of claim period. In the event of any extension of the Contract period, Bank Guarantee should be extended by CONTRACTOR by the period equivalent to the extended period.
- 10.7** The Performance Security shall be encashed by COMPANY on account of CONTRACTOR's failure to fulfil its obligations under the Contract and/or non-performance/un-satisfactory performance of the Contractor. Company shall not be required to proof any loss or damage on account of Contractor's non-performance/un-satisfactory performance.
- 10.8** The Performance Security will not accrue any interest during its period of validity or extended validity.
- 10.9** Failure of the successful Bidder to comply with the requirements of clause 10.0 shall constitute sufficient grounds for annulment of the award. In such an eventuality, action will be initiated as per the Banning Policy of OIL in vogue.

Subject to credit in OIL's account within prescribed time

* The validity of Bank Draft/Cashier's/Banker's cheque (as applicable) should not be less than 3 months.

In the event CONTRACTOR fails to honour any of the commitments entered into under this agreement, and /or in the event of termination of the contract under provisions of Integrity Pact and /or in respect of any amount due from the CONTRACTOR to OIL, OIL shall have unconditional option under the guarantee to invoke the above bank guarantee and claim the amount from the bank. The bank shall be obliged to pay the amount to OIL on demand.

11.0 SIGNING OF CONTRACT:

- 11.1** The successful bidder is required to sign a formal detailed contract with OIL within a maximum period of 60 days of date of LOA. Until the contract is signed, the LOA as well as GCC & SCC as prescribed in the Tender, shall remain binding amongst the two parties. In the event of failure on the part of the successful Bidder to sign the contract, OIL reserves the right to terminate the LOA issued to the successful Bidder and invoke the Performance Security if submitted by the successful Bidder. Such CONTRACTOR shall be put on holiday as per the Banning Policy of OIL [available at www.oil-india.in].

12.0 CLAIMS, TAXES & DUTIES:

- 12.1** **Claims:** CONTRACTOR agrees to pay all claims, taxes and fees for equipment, labour, materials, services and supplies to be furnished by it hereunder and agrees to allow no lien or charge resulting from such claims to be fixed upon any property of COMPANY. COMPANY may, at its option, pay and discharge any liens or overdue charges for CONTRACTOR's equipment, labour, materials, services and supplies under this CONTRACT and may thereupon deduct the amount or

amounts so paid from any sum due, or thereafter become due, to CONTRACTOR hereunder.

12.2 Notice of claims: CONTRACTOR or COMPANY, as the case may be, shall promptly give the other, notice in writing of any claim made or proceeding commenced for which that party is entitled to indemnification under the CONTRACT. Each party shall confer with the other concerning the defense of any such claims or proceeding, shall permit the other to be represented by counsel in defense thereof, and shall not affect settlement of or compromise any such claim or proceeding without the other's written consent.

12.3 Taxes:

12.3.1 CONTRACTOR, unless specified otherwise in the CONTRACT, shall bear all tax liabilities, duties, Govt. levies etc. including GST and customs duty, Corporate and personnel taxes levied or imposed on the CONTRACTOR on account of payments received by it from the COMPANY for the work done under this CONTRACT. It shall be the responsibility of CONTRACTOR to submit to the concerned Indian authorities, the returns and all other concerned documents required for this purpose and to comply in all respects with the requirements of the laws in this regard, in time.

12.3.2 Tax levied on CONTRACTOR as per the provisions of Indian Income Tax Act and any other enactment/rules on income derived/payments received under the contract will be on CONTRACTOR's account.

12.3.3 CONTRACTOR shall be responsible for payment of personal taxes, if any, for all the personnel deployed in India by CONTRACTOR.

12.3.4 The CONTRACTOR shall furnish to the COMPANY, if and when called upon to do so, relevant statement of accounts or any other information pertaining to work done under the contract for submitting the same to the Tax authorities, on specific request from them in accordance with provisions under the law. CONTRACTOR shall be responsible for preparing and filing the return of income etc. within the prescribed time limit to the appropriate authority.

12.3.5 Prior to start of operations under the contract, the CONTRACTOR shall furnish the COMPANY with the necessary documents, as asked for by the COMPANY and/ or any other information pertaining to the contract, which may be required to be submitted to the Income Tax authorities at the time of obtaining "No Objection Certificate" for releasing payments to the CONTRACTOR.

12.3.6 Corporate income tax will be deducted at source from the invoice at the specified rate of income tax as per the provisions of Indian Income Tax Act as may be in force from time to time and COMPANY will issue TDS Certificate to the CONTRACTOR as per the provisions of Income Tax Act.

12.3.7 Corporate and personnel taxes on CONTRACTOR shall be the liability of the CONTRACTOR and the COMPANY shall not assume any responsibility on this account.

12.3.8 All local taxes, levies and duties, sales tax, octroi, etc. on purchases and sales made by CONTRACTOR shall be borne by the CONTRACTOR.

12.3.9 CONTRACTOR shall provide all the necessary compliances/ invoice/documents

for enabling OIL to avail Input tax credit benefits in respect of the payments of GST which are payable against the CONTRACT. The CONTRACTOR should provide tax invoice issued under GST legislations for the goods and Services (indicating GST). Payment towards the components of GST shall be released by OIL only against appropriate documents i.e.: Tax Invoice/Bill of entry for availing input tax credit (as applicable).

12.3.10 The tax invoices as per above provisions should contain all the particulars as required under the invoicing rules under the GST legislations, including, but not limited to the following:

- i. Name, Address and the GST Registration Number (under the relevant Tax Rules) of the Service Provider (CONTRACTOR)
- ii. Name and Address and GST Registration Number of the Service Receiver (Address of OIL)
- iii. Description, Classification and Value of taxable service/goods and the amount of applicable tax (CGST, SGST, IGST, UTGST and cess)

12.3.11 In case of imported goods, CONTRACTOR/supplier is required to provide original Bill of Entry or copy of Bill of Entry duly attested by Custom authority.

12.3.12 The CONTRACTOR should mention the Place of supply in the invoice raised under GST Law.

12.3.13 OIL would not accept any invoice without its GSTIN mentioned on the invoice

Note: CONTRACTOR who is under composition levy of the GST legislation would raise Bill of supply instead of Tax invoice, which will have GSTIN of supplier as well as OIL.

12.4 Goods and Services Tax:

12.4.1 "GST" shall mean Goods and Services Tax charged on the supply of material(s) and services. The term "GST" shall be construed to include the Integrated Goods and Services Tax (hereinafter referred to as "IGST") or Central Goods and Services Tax (hereinafter referred to as "CGST") or State Goods and Services Tax (hereinafter referred to as "SGST") or Union Territory Goods and Services Tax (hereinafter referred to as "UTGST") depending upon the import/interstate or intrastate supplies, as the case may be. It shall also mean GST compensation Cess, if applicable.

12.4.2 Where the OIL is entitled to avail the input tax credit of GST:

OIL will reimburse the GST to the Supplier of Goods/Services (Service Provider) at actual against submission of Invoices as per format specified in rules/ regulation of GST to enable OIL to claim input tax credit of GST paid. In case of any variation in the executed quantities, the amount on which the GST is applicable shall be modified in same proportion. Returns and details required to be filled under GST laws & rules should be timely filed by supplier with requisite details.

12.4.3 Where the OIL is not entitled to avail/take the full input tax credit of GST:

OIL will reimburse GST to the Supplier of Goods/Services (Service Provider) at actual against submission of Invoices as per format specified in rules/ regulation

of GST subject to the ceiling amount of GST as quoted by the bidder. In case of any variation in the executed quantities (If directed and/or certified by the In-Charge) the ceiling amount on which GST is applicable will be modified on pro-rata basis.

- 12.4.4** The CONTRACTOR will be under obligation for charging correct rate of tax as prescribed under the respective tax laws. Further the CONTRACTOR shall avail and pass on benefits of all exemptions/concessions available under tax laws. Any error of interpretation of applicability of taxes/ duties by the CONTRACTOR shall be to CONTRACTOR's account.
- 12.4.5** In case of statutory variation in GST, other than due to change in turnover, payable on the contract value during contract period, the Supplier of Goods/ Services (Service Provider) shall submit a copy of the 'Government Notification' to evidence the rate as applicable on the Bid due date and on the date of revision.
- 12.4.6** Beyond the contract period, in case OIL is not entitled for input tax credit of GST, then any increase in the rate of GST beyond the contractual delivery period shall be to Service provider's account whereas any decrease in the rate GST shall be passed on to the OIL.
- 12.4.7** Beyond the contract period, in case OIL is entitled for input tax credit of GST, then statutory variation in applicable GST on supply and on incidental services, shall be to OIL's account.
- 12.4.8** Claim for payment of GST/ Statutory variation, should be raised within two [02] months from the date of issue of 'Government Notification' for payment of differential (in %) GST, otherwise claim in respect of above shall not be entertained for payment of arrears.
- 12.4.9** The base date for the purpose of applying statutory variation shall be the Bid Opening Date.
- 12.4.10** The CONTRACTOR will be liable to ensure to have registered with the respective tax authorities, wherever applicable and to submit self- attested copy of such registration certificate(s) and the CONTRACTOR will be responsible for procurement of material in its own registration (GSTIN) and also to issue its own Road Permit/ E-way Bill, if applicable etc.

12.5 Anti-profiteering clause

- 12.5.1** As per Clause 171 of GST Act it is mandatory to pass on the benefit due to reduction in rate of tax or from input tax credit to the consumer by way of commensurate reduction in prices.
- 12.5.2** In case rating of Contractor is negative/black listed after award of work for supply of goods/services, then OIL shall not be obligated or liable to pay or reimburse GST to such vendor/Contractor and shall also be entitled to deduct/recover such GST along with all penalties/interest, if any, incurred by OIL.

13.0 CUSTOMS DUTY, IF APPLICABLE:

- 13.1.1** CONTRACTOR shall be responsible to import the equipment/tools/spares/ consumables etc. required for execution of the contract. The CONTRACTOR shall undertake to complete all the formalities as required under the Customs

Act/Foreign Trade Policy (FTP) and indemnify OIL from all the liabilities of Customs in this regard.

13.1.2 CONTRACTOR will be solely responsible for payment of all applicable Customs Duty and to comply all Rules and Regulations. Total Contract Price/Value is inclusive of all Customs Duty, if not mentioned otherwise elsewhere in the Contract.

13.1.3 Above clause is to be read with Customs Duty Clause in SCC, if any.

14.0 INSURANCE:

14.1 CONTRACTOR shall at his own expense arrange secure and maintain insurance with reputed insurance companies to the satisfaction of the Company as follows:

Contractor at his cost shall arrange, secure and maintain insurance as may be necessary and to its full value for all such amounts to protect the works in progress from time to time and the interest of Company against all risks as detailed herein. The form and the limit of such insurance, as defined here in together with the under works thereof in each case should be as acceptable to the Company. However, irrespective of work acceptance the responsibility to maintain adequate insurance coverage at all times during the period of Contract shall be that of Contractor alone. Contractor's failure in this regard shall not relieve him of any of his responsibilities & obligations under Contract. All costs on account of insurance liabilities covered under Contract will be to Contractor's account and will be included in Value of Contract. However, the Company may from time to time, during the currency of the Contract, ask the Contractor in writing to limit the insurance coverage risk and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in value of Contract to the extent of reduced premium amounts. Contractor shall cover insurance with Indian Insurance Companies.

14.2 Any deductible set forth in any of the above insurance shall be borne by Contractor.

14.3 CONTRACTOR shall require all of his sub-Contractor to provide such of the foregoing insurance coverage as Contractor is obliged to provide under this Contract and inform the Company about the coverage prior to the commencement of agreements with its sub-Contractors.

14.4 All insurance taken out by Contractor or their sub-contractor shall be endorsed to provide that the underwriters waive their rights of recourse on the Company and to the extent of the liabilities assumed by Contractor under this Contract.

14.5 Certificate of Insurance:

Before commencing performance of the CONTRACT, CONTRACTOR shall furnish OIL with certificates of insurance indicating:

- a) Kinds and amounts of insurance as required herein
- b) Details of coverage
- c) Insurance corporation or companies carrying the aforesaid coverage
- d) Effective and expiry dates of policies
- e) That OIL shall be given thirty (30) days written advance notice of any material change in the policy

- f) Waiver of subrogation endorsement has been attached to all policies and
- g) The territorial limits of all policies.

14.6 Contractor shall also inform the Company at least 60 days in advance regarding the expiry cancellation and/or changes in any of such documents & ensure revalidation/renewal, etc., as may be necessary well in time.

14.7 If any of the above policy expire or/are cancelled during the term of this CONTRACT and CONTRACTOR fails for any reason to renew such policies, OIL in no case shall be liable for any loss/damage occurred during the term when the policy is not effective. Furthermore, a penal interest @ 1% of the Total contract value shall be charged towards not fulfilling of the contractual obligations. Notwithstanding above, should there be a lapse in any insurance required to be taken by the Contractor for any reason whatsoever, loss/damage claims resulting therefrom shall be to the sole account of Contractor.

14.8 Contractor on demand from Company shall furnish the Insurance Policy having detail terms and conditions, with respect to any Certificate of Insurance submitted to the Company.

CONTRACTOR shall, at his own expense, arrange appropriate comprehensive insurance to cover all risks assumed by the CONTRACTOR under this CONTRACT in respect of CONTRACTOR's equipment, tools and any other belongings of the CONTRACTOR and its personnel as well deputed under this CONTRACT during the entire period of their engagement in connection with this CONTRACT including extensions if any. The CONTRACTOR shall also carry adequate insurance cover against damage/loss to third party person/property. OIL will have no liability on this account.

14.9 Principal Assured:

The following are to be included as Principal Assured(s) in the Insurance Policies (except in case of Workmen's Compensation/Employer's Liability insurance):

"Oil India Limited, and CONTRACTOR's name (as appearing in the Contract/LOA)"

14.10 Waiver of subrogation:

All insurance policies of the CONTRACTOR with respect to the operations conducted hereunder as set forth in clauses hereof, shall be endorsed by the underwriter in accordance with the following policy wording:

"The insurers hereby waive their rights of subrogation against Oil India Limited or any of their employees or their affiliates and assignees".

14.11 Deductible:

The CONTRACTOR shall take policy with minimum deductible as per IRDA prescribed for the policy(ies). That portion of any loss not covered by insurance provided for in this article solely by reason of deductible provision in such insurance policies shall be to the account of the CONTRACTOR.

14.12 Compliance with Sec 25(1), of "The General Insurance Business (Nationalization) Act 1972"

Section 25(1) of "The General Insurance Business (Nationalization) Act 1972" is

reproduced below:

“No person shall take out or renew any policy of insurance in respect of any property in India or any ship or other vessel or aircraft registered in India with an insurer whose principal place of business is outside India save with the prior permission of the Central Government”.

The above requirement of aforesaid Act needs to be complied with by the CONTRACTOR wherever the aforesaid provisions of Act apply, and compliance confirmations submitted.

14.13 Loss Payee Clause:

The Insurance Policies should mention the following in Loss Payee Clause:

“In respect of Insurance claims in which OIL’s interest is involved, written consent of OIL will be required”.

14.14 On account payment to OIL in case of claim

In case any loss or damage happen and where OIL’s interest is involved, OIL reserves the right to recover the loss amount from the CONTRACTOR prior to final settlement of the claim.

14.15 CONTRACTOR shall require all of its SUB-CONTRACTORS to provide such of the foregoing insurance cover as the CONTRACTOR is obligated to provide under this CONTRACT.

14.16 CONTRACTOR shall at all time during the currency of the contract provide, pay for and maintain the following insurance amongst others:

- i) **Workman Compensation and/ Employers’ Liability Insurance:** Workmen's compensation and employer's liability insurance as required by the laws of the country of origin of the employee.
- ii) **Commercial General Liability Insurance:** Commercial General Public Liability Insurance covering liabilities including contractual liability for bodily injury, including death of persons, and liabilities for damage of property. This insurance must cover all operations of CONTRACTOR required to fulfil the provisions under this Contract.
- iii) **Comprehensive General Automotive Liability:** Automobile Public Liability Insurance covering owned, non-owned and hired automobiles used in the performance of the work hereunder, with bodily injury limits and property damage limits shall be governed by Indian Insurance Regulations.
- iv) **Carrier’s Legal Liability Insurance:** Carrier’s Legal Liability Insurance in respect of **all CONTRACTOR’s items** to be transported by the CONTRACTOR to the site of work, for physical loss or destruction of or damage to goods or merchandise, while in transit.
- v) **Public Liability Act Policy:** Public Liability Act Policy covering the statutory liability arising out of accidents occurring during the currency of the contract due to handling hazardous substances as provided in the Public Liability Insurance Act 1991 and the Rules framed there under.

- vi) **Pradhan Mantri Suraksha Bima Yojana (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY):** CONTRACTOR shall, ensure that all his/ its personnel deployed under this contract have obtained additional insurance coverage under the Pradhan Mantri Suraksha Bima Yojana (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY) through the participating banks and submit the proof of such insurance coverage to the satisfaction of OIL.
- vii) CONTRACTOR's equipment used for execution of the work hereunder shall have an insurance cover with a suitable limit (as per international standards).
- viii) **Any other insurance policy set forth in the SCC**

Note: An undertaking by the service provider has to be mandatorily provided during the Mobilization time that they have taken all the Insurance provisions as per the contract and as the Law and Insurance Regulation.

15.0 LIABILITY:

- 15.1** Except as otherwise expressly provided herein, neither COMPANY nor its servants, agents, nominees, CONTRACTORS, or sub- CONTRACTORS shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss of or damage to the property of the CONTRACTOR and/or their CONTRACTORS or sub-CONTRACTORS, irrespective of how such loss or damage is caused and even if caused by the negligence of COMPANY and/or its servants, agent, nominees, assignees, CONTRACTORS and sub-CONTRACTORS.
- 15.2** The CONTRACTOR shall protect, defend, indemnify and hold harmless COMPANY from and against such loss or damage and any suit, claim or expense resulting there from. Neither COMPANY nor its servants, agents, nominees, assignees, CONTRACTORS, sub-CONTRACTORS shall have any liability or responsibility whatsoever for injury to, illness, or death of any employee of the CONTRACTOR and/or of its CONTRACTORS or sub-CONTRACTOR irrespective of how such injury, illness or death is caused and even if caused by the negligence of COMPANY and/or its servants, agents nominees, assignees, CONTRACTORS and sub-CONTRACTORS. CONTRACTOR shall protect, defend, indemnify and hold harmless COMPANY from and against such liabilities and any suit, claim or expense resulting there from.
- 15.3** The CONTRACTOR hereby agrees to waive its right of recourse and further agrees to cause its underwriters to waive their right of subrogation against COMPANY and/or its underwriters, servants, agents, nominees, assignees, CONTRACTORS and sub- CONTRACTORS for loss or damage to the equipment of the CONTRACTOR and/or its sub-CONTRACTORS and/or their employees when such loss or damage or liabilities arises out of or in connection with the performance of the contract limited to the CONTRACTOR's liabilities agreed to under this Contract.
- 15.4** The CONTRACTOR hereby further agrees to waive its right of recourse and agrees to cause its underwriters to waive their right of subrogation against COMPANY and/or its underwriters, servants, agents, nominees, assignees, CONTRACTORS and sub-CONTRACTORS for injury to, illness or death of any employee of the CONTRACTOR and of its CONTRACTORS, sub-CONTRACTORS and/or their employees when such injury, illness or death arises out of or in connection with the performance of the contract limited to the CONTRACTOR's liabilities agreed to

under this Contract.

- 15.5** Except as otherwise expressly provided herein, neither CONTRACTOR nor its servants, agents, nominees, CONTRACTORs or sub- CONTRACTORs shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss or damage to the property of the COMPANY and/or their CONTRACTORs or sub-CONTRACTORs, irrespective of how such loss or damage is caused and even if caused by the negligence of CONTRACTOR and/or its servants, agents, nominees, assignees, CONTRACTORs and sub-CONTRACTORs. The COMPANY shall protect, defend, indemnify and hold harmless CONTRACTOR from and against such loss or damage and any suit, claim or expense resulting there from.
- 15.6** Except as otherwise expressly provided herein, neither CONTRACTOR nor its servants, agents, nominees, assignees, CONTRACTORs, sub- CONTRACTORs shall have any liability or responsibility whatsoever to whomsoever for injury or illness, or death of any employee of the COMPANY and/or of its CONTRACTORs or sub-CONTRACTORs irrespective of how such injury, illness or death is caused and even if caused by the negligence of CONTRACTOR and/or its servants, agents, nominees, assignees, CONTRACTORs and sub- CONTRACTORs. COMPANY shall protect, defend indemnify and hold harmless CONTRACTOR from and against such liabilities and any suit, claim or expense resulting there from.
- 15.7** The COMPANY agrees to waive its right of recourse and further agrees to cause its underwriters to waive their right of subrogation against CONTRACTOR and/or its underwriters, servants, agents, nominees, assignees, CONTRACTORs and sub-CONTRACTORs for loss or damage to the equipment of COMPANY and/or its CONTRACTORs or sub-CONTRACTORs when such loss or damage or liabilities arises out of or in connection with the performance of the contract.
- 15.8** The COMPANY hereby further agrees to waive its right of recourse and agrees to cause it underwriters to waive their right of subrogation against CONTRACTOR and/or its underwriters, servants, agents, nominees, assignees, CONTRACTORs and sub- CONTRACTORs for injury to, illness or death of any employee of the COMPANY and of its CONTRACTORs, sub-CONTRACTORs and/or their employees when such injury, illness or death arises out of or in connection with the performance of the Contract.
- 16.0 LIMITATION OF LIABILITY:**
- a) Notwithstanding any other provisions herein to the contrary, except only in cases of Wilful misconduct and/or criminal acts and/or criminal negligence, neither the CONTRACTOR nor the COMPANY (OIL) shall be liable to the other, whether in Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided however that this exclusion shall not apply to any obligation of the CONTRACTOR to pay Liquidated Damages to the COMPANY and/or COMPANY's right to forfeit the Performance Bank Guarantee(s) in terms of the contract.
- b) Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the CONTRACTOR in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 100% of the Contract Price (if not specified otherwise in SCC), provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the CONTRACTOR, or

to any obligation of the CONTRACTOR to indemnify the COMPANY with respect to Intellectual Property Rights.

- c) COMPANY shall indemnify and keep indemnified CONTRACTOR harmless from and against any and all claims, costs, losses and liabilities in excess of the aggregate liability amount in terms of clause (b) above.

17.0 LIABILITY OF UNION GOVERNMENT OF INDIA:

It is expressly understood and agreed upon by and between CONTRACTOR and OIL INDIA LIMITED, and that OIL INDIA LIMITED is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that Union of India is not a party to this agreement and has no liabilities, obligations or rights, whatsoever hereunder. It is expressly understood and agreed that OIL INDIA LIMITED is an independent legal entity with power and authority to enter into contracts solely on its own behalf under the applicable laws of India and general principles of the Contract law. The bidder/ CONTRACTOR expressly agrees, acknowledges and understands that OIL INDIA LIMITED is not an agent, representative or delegate of the Union of India. It is further understood and agreed that Union of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the contract. Accordingly, bidder/ CONTRACTOR hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Union of India arising out of this contract and covenants not to sue the Union of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.

18.0 CONSEQUENTIAL DAMAGE:

Except as otherwise expressly provided, neither party shall be liable to the other for special, indirect or consequential damages resulting from or arising out of the contract, including but without limitation, to loss or profit or business interruptions, howsoever caused and regardless of whether such loss or damage was caused by the negligence (either sole or concurrent) of either party, its employees, agents or sub- CONTRACTORS.

19.0 RISK PURCHASE:

In the event, CONTRACTOR's failure to provide the services as per the Contractual scope, terms and conditions, COMPANY (OIL) reserves the right to hire the services from any other source at the CONTRACTOR's risk & cost and the difference in cost shall be borne by the CONTRACTOR. Further, OIL shall retain the right of forfeiture of Performance Bank Guarantee and any other action as deemed fit. In certain operational situations OIL reserves the right to take over the site including the service equipment at the risk and cost of the CONTRACTOR.

20.0 INDEMNITY AGREEMENT:

- 20.1 Except as provided hereof CONTRACTOR agrees to protect, defend, indemnify and hold COMPANY harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of CONTRACTOR's employees, agents, CONTRACTORS and sub-CONTRACTORS or their employees or in favour of

any third party(is) on account of bodily injury or death, or damage to personnel/property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

- 20.2** Except as provided hereof COMPANY agrees to protect, defend, indemnify and hold CONTRACTOR harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of COMPANY's employees, agents, CONTRACTORS and sub-CONTRACTORS or their employees or in favour of any third party(is) on account of bodily injury or death, or damage to personnel/property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

21.0 INDEMNITY APPLICATION:

The indemnities given herein above, whether given by COMPANY or CONTRACTOR shall be without regard to fault or to the negligence of either party even though said loss, damage, liability, claim, demand, expense, cost or cause of action may be caused, occasioned by or contributed to by the negligence, either sole or concurrent of either party.

22.0 ROYALTY PATENTS:

Each party shall hold harmless and indemnify the other from and against all claim and proceedings for or on account of any patent rights, design, trade mark or other protected rights arising from any use of materials, equipment, processes, inventions and methods, which have not been imposed on the attending party by the terms of the contract or the specifications forming part thereof.

23.0 WARRANTY AND REMEDY OF DEFECTS:

- 23.1** CONTRACTOR warrants that they shall perform the work in a first class, workmanlike, and professional manner and in accordance with their highest degree of quality, efficiency and current state of the art technology/industry practices and in conformity with all specifications, standards and drawings set forth or referred to in the Terms of Reference and with instructions and guidance, which COMPANY may, from time to time, furnish to the CONTRACTOR.
- 23.2** Should COMPANY discover at any time during the tenure of the Contract or till the Unit/equipment/tools are demobilised from site or base camp (if applicable) that the work does not conform to the foregoing warranty, CONTRACTOR shall after receipt of notice from COMPANY, promptly perform any and all corrective work required to make the services conform to the Warranty. Such corrective Work shall be performed entirely at CONTRACTOR's own expenses. If such corrective Work is not performed within a reasonable time, the COMPANY, at its option may have such remedial Work performed by others and charge the cost thereof to CONTRACTOR subject to a maximum of the contract value payable for the defective work which needs corrective action which the CONTRACTOR must pay promptly. In case CONTRACTOR fails to perform remedial work, or pay promptly in respect thereof, the performance security shall be forfeited.

24.0 SUBCONTRACTING/ASSIGNMENT:

- 24.1** CONTRACTOR shall not subcontract, transfer or assign the contract, or any part under this contract, to any third party(ies). Except for the main services under this contract, CONTRACTOR may sub-contract the petty support services subject to COMPANY's prior written approval. However, CONTRACTOR shall be fully responsible for complete execution and performance of the services under the Contract.
- 24.2** Consequent upon of placement of contract, if successful bidder(s)(other than Micro/Small Enterprise) is procuring materials/services from their sub-vendor, who is a Micro or Small Enterprise registered with District Industry Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of MSME with prior consent in writing of the purchasing authority/Engineer in Charge the details like Name, Registration No., Address, Contact No., details of material and value of procurement made, etc. of such enterprises shall be furnished by the CONTRACTOR at the time of submission of invoice/bill.

25.0 RECORDS, REPORTS AND INSPECTION:

The CONTRACTOR shall, at all times during the currency of the contract, permit the COMPANY and its authorized employees and representatives to inspect all the Work performed and to witness and check all the measurements and tests made in connection with the said work. The CONTRACTOR shall keep an authentic, accurate history and logs including safety records of each service item with major items consumed, which shall be open at all reasonable times for inspection by the COMPANY's designated representatives and its authorized employees. The CONTRACTOR shall provide the COMPANY's designated representatives with a daily written report, on form prescribed by the COMPANY showing details of operations during the preceding 24 hours and any other information related to the said services requested by the COMPANY whenever so requested. The CONTRACTOR shall not, without COMPANY's written consent allow any third person(s) access to the said information or give out to any third person information in connection therewith.

26.0 CONFIDENTIALITY, USE OF CONTRACT DOCUMENTS AND INFORMATION:

- 26.1** CONTRACTOR shall not, without COMPANY's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing pattern, sample or information furnished by or on behalf of COMPANY in connection therewith, to any person other than a person employed by CONTRACTOR in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only, as may be necessary for purposes of such performance with prior permission from COMPANY. However, nothing hereinabove contained shall deprive the CONTRACTOR of the right to use or disclose any information which is:
- a) possessed by the CONTRACTOR, as evidenced by the CONTRACTOR's written records, before receipt thereof from the COMPANY which however the CONTRACTOR shall immediately inform to COMPANY ; or
 - b) required to be disclosed by the CONTRACTOR pursuant to an order of a court of

competent jurisdiction or other governmental agency having the power to order such disclosure, provided the CONTRACTOR uses its best efforts to provide timely notice to COMPANY of such order to permit COMPANY an opportunity to contest such order subject to prior permission from COMPANY.

- 26.2** CONTRACTOR shall not, without COMPANY's prior written consent, make use of any document or information except for purposes of performing the contract.
- 26.3** Any document supplied to the CONTRACTOR in relation to the contract other than the Contract itself remain the property of COMPANY and shall be returned (in all copies) to COMPANY on completion of CONTRACTOR's performance under the Contract if so required by COMPANY.
- 26.4** During the currency of the Contract, COMPANY and its employees, agents, other CONTRACTORS, sub-CONTRACTORS (of any tier) and their employees etc. may be exposed to certain confidential information and data of the CONTRACTOR. Such information and data held by the COMPANY, its employees, agents, other CONTRACTORS, sub-CONTRACTORS (of any tier) and their employees in the strictest Confidence and shall not be disclosed to any other party except on a need to know basis.

However, the above obligation shall not extend to information which:

- i) is, at the time of disclosure, known to the public which CONTRACTOR shall immediately inform COMPANY ;
- ii) is lawfully becomes at a later date known to the public through no fault of CONTRACTOR subject to CONTRACTOR's undertaking that no information has been divulged by them to the public;
- iii) is lawfully possessed by CONTRACTOR before receipt thereof from COMPANY which should be immediately informed to COMPANY;
- iv) is developed by CONTRACTOR independently of the information disclosed by COMPANY which should be shared with the COMPANY;
- v) CONTRACTOR is required to produce before competent authorities or by court order subject to prior permission from COMPANY;

27.0 REMUNERATION AND TERMS OF PAYMENT:

- 27.1** COMPANY shall pay to the CONTRACTOR during the term of the Contract the amount due from time to time calculated according to the rates of payment set and in accordance with other provisions hereof. No other payments shall be due from COMPANY unless specifically provided for in the Contract. All payments will be made in accordance with the terms hereinafter described.
- 27.2** Request for payment/part payment to third party i.e. other than the party on whom the contract has been awarded will not be entertained by OIL under any circumstances.
- 27.3** MANNER OF PAYMENT: All payments due by COMPANY to CONTRACTOR hereunder shall be made at CONTRACTOR's designated bank. Bank charges, if any will be on account of the CONTRACTOR.
- 27.4** Payment of any invoices shall not prejudice the right of COMPANY to question the

validity of any charges therein, provided COMPANY within one year after the date of payment shall make and deliver to CONTRACTOR written notice of objection to any item or items the validity of which COMPANY questions.

- 27.5** INVOICES: Mobilization charges will be invoiced only upon completion of mobilization as certified by COMPANY representative and CONTRACTOR is ready at site for starting the services/ operation. Payment of mobilization charges shall be made within 45 days following the date of receipt of undisputed invoices by COMPANY.
- 27.6** CONTRACTOR shall send invoice to COMPANY on the day following the end of each month for all daily or monthly charges due to the CONTRACTOR.
- 27.7** CONTRACTOR will submit 02 (Two) sets of all invoices duly super scribed 'Original' and 'copy' as applicable to the COMPANY for processing payment. Separate invoices for the charges payable under the contract shall be submitted by the CONTRACTOR for foreign currency and Indian currency.
- 27.8** Payment of monthly invoices, if undisputed, shall be made within 30 days following the date of receipt of invoice by COMPANY.
- 27.9** COMPANY shall within 30 days of receipt of the invoice notify the CONTRACTOR of any item under dispute, specifying the reasons thereof, in which event, payment of the disputed amount may be withheld until settlement of the dispute, but payment shall be made of any undisputed portion on or before the due date. This will not prejudice the COMPANY's right to question the validity of the payment at a later date as envisaged in clause no. **27.4** above.
- 27.10** The acceptance by CONTRACTOR of part payment on any billing not paid on or before the due date shall not be deemed a waiver of CONTRACTOR's rights in any other billing, the payment of which may then or thereafter be due.
- 27.11** Payment of Final demobilization charges shall be made if applicable within 45 days on receipt of invoice by COMPANY accompanied by the following documents from the CONTRACTOR:
- a) Audited account up to completion of the Contract.
 - b) Tax audit report for the above period as required under the Indian Tax Laws.
 - c) Documentary evidence regarding the submission of returns and payment to taxes for the expatriate personnel engaged by the CONTRACTOR or by its sub-CONTRACTOR.
 - d) Proof of re-export of all items including the unutilized spares and consumables (excepting consumables consumed during the contract period) and also cancellation of re-export bond if any.
 - e) Any other documents as required by applicable Indian Laws.

In case, no demobilization charges are payable, the documents mentioned above will have to be submitted by the CONTRACTOR before release of the final payment by the COMPANY. A certificate from Chartered Accountant on (a), (b) & (c) above will suffice

- 27.12** CONTRACTOR shall maintain complete and correct records of all information on

which CONTRACTOR's invoice are based upto 02 (two) years from the date of last invoice. Such records shall be required for making appropriate adjustments or payments by either party in case of subsequent audit query/objection.

28.0 PAYMENT OF COMMISSION/FEE/REMUNERATION OF INDIAN AGENT/CONSULTANT/REPRESENTATIVE/RETAINER/ASSOCIATE OF FOREIGN PRINCIPAL (APPLICABLE IN ICB TENDERS ONLY):

The Commission/Fee/remuneration of the Indian agent/consultant/associate/representative/retainer, if any, will be paid within 30 days of the payment of invoice made to the CONTRACTOR, The amount of commission/fee/remuneration as a percentage of invoice value as per contract provisions will be deducted by COMPANY/OIL from the monthly invoices of the CONTRACTOR and paid to the Indian agent/consultant/representative/retainer/associate.

29.0 DETAILS OF STATUTORY PAYMENTS LIKE EPF AND ESI, ETC:

Wherever applicable, the CONTRACTOR (including those engaging 'International Workers') shall have itself registered under Employees' Provident Fund and Miscellaneous Provisions Act, 1952 and Employees' State Insurance Act, 1948 and follow the relevant statutory provisions including Rules made there-under concerning contractual workers.

The CONTRACTOR shall be required to submit the following documents/details to the Corporation:

- (i) Copy of PF-ECR duly stamped by the designated Bank, alongwith a print of the digitally signed PDF data sheet of the ECR, as proof of payment, each month, details of this PDF data sheet shall be verified by the appropriate authority (i.e. Payment Making Authority) in the COMPANY from the official website of EPFO (<http://www.epfindia.gov.in>).
- (ii) (a) Copy of the online challan endorsed/stamped by the designated bank as proof of receipt of payment towards monthly contribution of ESI contribution.

(b) Copy of Return of contribution in respect of ESI for each contribution period of the six months i.e. for the contribution period ended 30th Sept and the contribution period ended 31st March.
- (iii) As an Annexure to each EPF-ECR and ESI Challan(s), CONTRACTOR shall also furnish the following Certificates:
 - 1) The furnished information is correct to the best of his knowledge.
 - 2) In case any discrepancies or irregularities is /are noticed in this undertaking, then OIL is free to inform the PF/ESIC Authorities.
 - 3) Before the completion of contract, CONTRACTOR shall serve one-month notice to all his contractual workers, informing that their services will be terminated.
 - 4) Within one month on completion/expiry of the contract, CONTRACTOR shall pay all the dues/ terminal dues such as leave with wages, bonus (if applicable), Gratuity (if applicable), to all his contractual workmen, failing which CONTRACTOR's Bank Guarantee/ Security Deposit may be withheld by OIL.

COMPANY may verify the deposit of statutory contribution made by the CONTRACTORs with the EPFO/ESI authorities, where deemed necessary. However, before making payment of the last bill/invoice of the CONTRACTOR, the COMPANY may verify the details/status of the payment towards EPF/ESI made by the CONTRACTOR from the authorities/official website of EPF/ESI (i.e. <http://www.epfindia.gov.in> and <http://www.esic.in>). In case the information furnished by the CONTRACTOR is found to be incorrect the COMPANY shall take appropriate action against the CONTRACTOR in accordance with law.

The CONTRACTOR agrees and undertakes to indemnify OIL for any liabilities arising out of declarations made by him in future on violation or provisions of the EPF Act 1952 and ESI Act 1948.

30.0 TIMELY MOBILIZATION AND LIQUIDATED DAMAGES:

a) Time is the essence of this Contract. If the CONTRACTOR fails to mobilize and deploy the required manpower/equipment and/or fails to commence the operation within the period specified as specified under mobilization clause under SCC, OIL shall have, without prejudice to any other right or remedy in law or contract including sub clause (b) below, the right to terminate the contract.

b) If the contractor is unable to mobilize/deploy and commence the operation within the period specified in sub clause (a) above, it may request OIL for extension of the time with unconditionally agreeing for levy and recovery of LD. Upon receipt of such a request, OIL may at its discretion, extend the period of mobilization and shall recover from the CONTRACTOR, as an ascertained and agreed Liquidated Damages, a sum equivalent to @ 0.5% of contract value including mobilization cost, per week or part thereof of delay subject to maximum of 7.5% of the Contract Price.

c) The parties agree that the sum specified above is not a penalty but a genuine pre-estimate of the loss/damage which will be suffered by OIL on account of delay on the part of the CONTRACTOR and the said amount will be payable without proof of actual loss or damage caused by such delay.

d) LD will be calculated on the basis of Total Contract value [(if not specified otherwise in SCC] excluding duties and taxes, where such duties/taxes have been shown separately in the contract. However, the applicable GST on the LD shall have to be borne by the CONTRACTOR. Accordingly, the liquidated damages shall be recovered from the CONTRACTOR along with applicable GST.

31.0 FORCE MAJEURE:

In the event of either party being rendered unable by 'Force Majeure' to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such 'Force Majeure' will stand suspended as provided herein. The term force majeure as employed herein shall mean Acts of God such as earthquake, hurricane, typhoon, flood, volcanic activity etc.; war (declared /undeclared); riot, revolts, rebellion, terrorism, sabotage by persons other than the CONTRACTOR's Personnel; fires, explosions, ionising radiation or contamination by radio-activity or noxious gas, if not caused by CONTRACTOR's fault; declared epidemic or disaster; acts and regulations of respective Govt. of the two parties, namely the COMPANY and the CONTRACTOR and civil commotions, lockout not attributable to the CONTRACTOR.

Upon occurrence of such cause, the party claiming that it has been rendered unable as aforesaid thereby, shall notify the other party in writing within 72 (Seventy Two) hours of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of its claim.

Should 'force majeure' condition as stated above occurs and should the same be notified within 72 (Seventy two) hours after its occurrence the 'force majeure' rate (if specified in the SCC of the Contract) shall apply for the first 15 (fifteen) days for each such occasion.

Either party shall have the right to terminate the Contract if such 'force majeure' conditions continue beyond successive 60 (Sixty) days [or exclusively mentioned in the SCC of the Contract] with prior written notice of 15 days, provided termination of the Contract does not result into safety hazard to the life and property on account of withdrawal of operations or the operation is at critical stage. COMPANY shall have the absolute right to decide whether any safety hazard exists or operation is at critical position and decision of the COMPANY shall binding upon the CONTRACTOR.

Should either party decide not to terminate the Contract even under such condition, no payment would apply after expiry of fifteen (15) days force majeure period. [or exclusively mentioned in the SCC of the Contract]

Time for performance of the relative obligation suspended by Force Majeure shall then stand extended by the period for which such cause lasts.

If however, relative obligation of the party affected by such 'Force Majeure' is limited to part of the obligation(s), the contract shall not be terminated and the parties shall continue to perform their respective obligations, which are not affected by the 'force majeure' condition, provided the obligations affected by the 'force majeure' do not preclude the parties in performing the obligations not affected by such conditions.

32.0 SET-OFF:

Any sum of money due and payable to the CONTRACTOR (including Performance Security refundable to them) under this or any other Contract, whether in progress or in future, may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the CONTRACTOR with OIL (or such other person or persons contracting through OIL).

33.0 WITHHOLDING:

COMPANY may withhold or nullify the whole or any part of the amount due to CONTRACTOR, after informing the CONTRACTOR of the reasons in writing, on account of subsequently discovered evidence in order to protect COMPANY from loss on account of:

- 33.1** For non-completion of jobs assigned as per Scope of Work/Terms of Reference.
- 33.2** Defective work not remedied by CONTRACTOR.
- 33.3** Claims by COMPANY's recognized sub-CONTRACTOR of CONTRACTOR or others

filed or on the basis of reasonable evidence indicating probable filing of such claims against CONTRACTOR.

- 33.4** Failure of CONTRACTOR to pay or provide for the payment of salaries/ wages, contributions, taxes or enforced savings with-held from wages etc with respect to personnel engaged by the CONTRACTOR.
- 33.5** Failure of CONTRACTOR to pay the cost of removal of unnecessary debris, materials, tools, or machinery.
- 33.6** Any failure by CONTRACTOR to fully reimburse COMPANY under any of the indemnification provisions of this Contract. If, during the progress of the work CONTRACTOR shall allow any indebtedness to accrue for which CONTRACTOR, under any circumstances in the opinion of COMPANY, may be primarily or contingently liable or ultimately responsible and CONTRACTOR shall, within five days after demand is made by COMPANY, fail to pay and discharge such indebtedness, then COMPANY may during the period for which such indebtedness shall remain unpaid, with-hold from the amounts due to CONTRACTOR, a sum equal to the amount of such unpaid indebtedness.
- 33.7** Withholding will also be effected on account of the following:
- i) Order issued by a Court of Law or statutory authority in India.
 - ii) Income-tax deductible at source according to law prevalent from time to time in the country.
 - iii) Any obligation of CONTRACTOR which by any law prevalent from time to time to be discharged by COMPANY in the event of CONTRACTOR's failure to adhere to such laws.
 - iv) Any payment due from CONTRACTOR in respect of unauthorised imports.

When all the above grounds for withholding payments are removed, payment shall thereafter be made for amounts so with-held.

- 33.8** COMPANY reserves the right to disburse or deposit the amount so withheld to the concerned person(s) or agency or government authority, as the case may be, besides nullifying such amount on account of loss suffered by the COMPANY against **33.2, 33.3, 33.6 & 33.7** above.

34.0 APPLICABLE LAWS:

The Contract shall be deemed to be a Contract made under, governed by and construed in accordance with the laws of India for the time being in force and shall be subject to the sole and exclusive jurisdiction of Courts situated in Dibrugarh (or the Place where the contract is executed) and Principal Bench of Gauhati High Court (or the High Court under whose territorial jurisdiction, the place of execution of contract falls).

This Agreement including all matter connected with this Agreement, shall be governed by the laws of India (both substantive and procedural) for the time being in force and shall be subject to exclusive jurisdiction of Courts, mentioned hereinabove. Foreign companies, operating in India or entering into Joint ventures in India, shall also be governed by the laws of India and shall be subject to sole

and exclusive jurisdiction of above Courts.

The CONTRACTOR shall ensure full compliance of various Indian Laws and Statutory Regulations, as stated below, to the extent applicable, as stated below, but not limited to, in force from time to time and obtain necessary permits/licenses etc. from appropriate authorities for conducting operations under the Contract:

- a) The Mines Act 1952
- b) The Oil Mines Regulations, 1984
- c) The Employees' Compensation Act, 1923
- d) The Code of Wages, 2019
- e) The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed there under
- f) The Employees Pension Scheme, 1995
- g) The Interstate Migrant Workmen Act., 1979 (Regulation of employment and conditions of service).
- h) The Employees Provident Fund and Miscellaneous Provisions Act, 1952
- i) Goods and Service Tax Act
- j) Customs & Excise Act & Rules
- k) Factories Act, 1948
- l) Industrial Disputes Act, 1947
- m) Payment of Gratuity Act, 1972
- n) Environmental Protection Act, 1986 & other pollution control Acts.

Note: The above Acts are only indicative and not exhaustive. The Acts shall include the rules and regulations framed thereunder.

35.0 LABOUR LAWS:

- i) CONTRACTOR shall comply with the provisions of various labour related laws, including but not limited to the Code of Wages, 2019, Employee Provident Fund and Miscellaneous Provisions Act 1952, COMPANY's Liability Act 1938, Employees' Compensation Act 1923, Industrial Disputes Act 1947, the Maternity Benefit Act 1961 and Contract Labour (Regulation and Abolition) Act 1970, Employment of Children Act 1938, Employees' State Insurance Act, 1948 or any modifications/amendment thereof or any other law relating thereto and rules made there under from time to time.
- ii) No Labour below the age of eighteen [18] years shall be employed on the work.
- iii) CONTRACTOR shall not pay less than what is provided under law to labourers engaged by him on the work.
- iv) CONTRACTOR shall at his expense comply with all labour laws and keep the COMPANY indemnified in respect thereof.
- v) CONTRACTOR shall pay equal wages for men and women in accordance with applicable Labour laws.
- vi) If the CONTRACTOR is covered under the Contract Labour (Regulation and Abolition) Act, he shall obtain a license from licensing authority [i.e. office of the Labour Commissioner] by payment of necessary prescribed fee and the deposit, if any, before starting the work under the Contract. Such fee/deposit shall be borne by the CONTRACTOR.

- vii) CONTRACTOR must obtain the PF Code from the concerned PF Authority under Employees Provident Fund and Miscellaneous Provisions Act, 1952. Similarly, CONTRACTOR must obtain ESI Code under Employees State Insurance Act.
- viii) CONTRACTOR being the employer of the labours/personnel to be engaged under the contract shall be liable to pay gratuity to the labours/personnel as per the provision of the Payment of Gratuity Act, 1972 and accordingly, shall keep the COMPANY indemnified in respect thereof. If however, COMPANY requires to pay gratuity to such labour(s) as per the direction of the competent authority under the Act, COMPANY shall recover such amount from the outstanding dues payable to the CONTRACTOR under the contract or any other contract(s).
- ix) CONTRACTOR shall furnish to Engineer in Charge the distribution return of the number & description, by trades of the work people employed on the works. CONTRACTOR shall also submit on the 4th & 19th of every month to Engineer in Charge a true statement showing in respect of the 2nd half of the preceding month & the 1st half of the current month (1) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (2) the number of female workers who have been allowed Maternity Benefit as provided in the Maternity Benefit Act 1961 on Rules made there under and the amount paid to them.
- x) Engineer in Charge shall on a report having been made by an inspecting officer as defined in Contract Labour (Regulation and Abolition) Act 1970 have the power to deduct from the money due to the CONTRACTOR any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the conditions of the Contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the Contract or non-observance of the said regulations.
- xi) The CONTRACTOR shall indemnify the COMPANY against any payments to be made under and for the observance of the provisions of the aforesaid acts without prejudice to his right to obtain indemnity from his sub-CONTRACTOR.

36.0 STATUTORY REQUIREMENTS:

During the tenure of this CONTRACT nothing shall be done by the CONTRACTOR in contravention of any law, act and/or rules/regulations, thereunder or any amendment

37.0 GENERAL HEALTH, SAFETY & ENVIRONMENT (HSE) GUIDELINES:

37.1 It will be solely the CONTRACTOR's responsibility to fulfil all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely; the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. Ensure that all sub-CONTRACTORS hired by CONTRACTOR comply with the same requirement as the CONTRACTOR himself and shall be liable for ensuring compliance all HSE laws.

37.2 It will be entirely the responsibility of the Contractor/his Supervisor/representative to ensure strict adherence to all HSE measures and statutory rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given

by company's Installation Manager/Safety Officer/Engineer/Official/ Supervisor/Junior Engineer for safe operation.

- 37.3** Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the contractor only.
- 37.4** Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the contractor.
- 37.5** When there is a significant risk to health, environment or safety of a person or place arising because of a non-compliance of HSE Measures Company shall have the right to direct the contractor to cease work until the non-compliance is corrected.

38.0 POLLUTION AND CONTAMINATION:

The CONTRACTOR shall be liable for all surface and sub-surface pollution to the extent caused by CONTRACTOR and resulting from CONTRACTOR's operation/service or spillage or dumping of solvents/additive substances or pollutants, which the CONTRACTOR brings to the Site for use in connection with Work to be performed under this Contract.

Notwithstanding anything to the contrary contained herein, it is agreed that except on the ground of willful misconduct or criminal misconduct, COMPANY shall release, indemnify and hold CONTRACTOR and its sub-CONTRACTORS harmless from any and all claims, judgments, losses, expenses and any costs related thereto (including but not limited to Court costs and "Attorney's fees") for:

- a) Damage to or loss of any reservoir or producing formation; and/ or
- b) Damage to or loss of any well; and/ or
- c) Any other subsurface damage or loss; and/ or
- d) Any property damage or loss or personal injury or death arising out of or in connection with a blowout, fire explosion and loss of well control regardless of cause.

39.0 STATUTORY VARIATION/ NEWLY ENACTED LAW:

- 39.1** All duties, taxes except otherwise specified in the Contract as applicable on the closing date of bid submission as per relevant acts and rules shall be in CONTRACTOR's account. Variation in case of custom duty on CIF value declared by the bidder shall be to COMPANY account.
- 39.2** In the event of introduction of any new legislation or any amendment or enforcement of any Act or Law, rules or regulations of Government of India or State Government(s) or Public Body, which becomes effective after the date of submission of Price Bid or revised price bid, if any, for this CONTRACT and which results in increased/decreased cost of the works under the CONTRACT through increased/decreased liability of taxes and/or duties, required to be paid by the CONTRACTOR, (other than personnel and Corporate taxes), the Parties shall agree to a revision in pricing to reflect such change subject to the production of documentary proof to the satisfaction of the COMPANY/CONTRACTOR as applicable to the extent which directly is attributable to such introduction of new

legislation or change or amendment as mentioned above and adjudication by the competent authority (applicable when disputed by COMPANY) & the courts wherever levy of such taxes/duties are disputed by COMPANY/CONTRACTOR.

- 39.3** Any increase in net amount of the duties and taxes (i.e. the amount of taxes/duties payable minus eligible credit of taxes/duties paid on input services/inputs) after the contractual completion/mobilization date during the extended period will be to the CONTRACTOR's account, where delay in completion /mobilization period is attributable to the CONTRACTOR. However, any decrease in net amount of the duties and taxes (i.e. the amount of taxes/duties payable minus eligible credit of taxes/duties paid on input services/inputs) after the contractual completion/mobilization date will be to COMPANY's account.
- 39.4** The Contract Price and other prices given in the Schedule of Prices are based on the applicable tariff as indicated by the CONTRACTOR in the Schedule of Prices. In case this information subsequently proves to be wrong, incorrect or misleading, COMPANY will have no liability to reimburse/pay to the CONTRACTOR the excess duties, taxes, fees, if any finally levied/imposed by the concerned authorities. However, in such an event, COMPANY will have the right to recover the difference in case the rate of duty/tax finally assessed is on the lower side.
- 39.5** Notwithstanding the provision contained in Clause-39.1 to 39.4 above, the COMPANY shall not bear any liability in respect of:
- i. Personal taxes on the personnel deployed by CONTRACTOR, his sub-CONTRACTOR/sub-sub-CONTRACTORS and Agents etc.
 - ii. Corporate taxes and Fringe benefit tax in respect of CONTRACTOR and all of their sub-CONTRACTORS, agents etc.
 - iii. Other taxes & duties including Customs Duty and GST in addition to new taxes etc. in respect of sub-CONTRACTORS, vendors, agents etc. of the CONTRACTOR.
 - iv. Any liability on the CONTRACTOR, which was accrued under the old law or contract, which the CONTRACTOR is obligated to pay either to the COMPANY or to the Government Authority.
- 39.6** In order to ascertain the net impact of the amendment/ revisions/enactment of various provisions of taxes/duties, the CONTRACTOR is liable to provide following disclosure to COMPANY:
- i. Details of each of the input services used in relation to providing service to COMPANY including estimated monthly value of input service and GST tax amount.
 - ii. Details of Inputs (material/consumable) used/required for providing service to COMPANY including estimated monthly value of input and GST paid/payable on purchase of inputs.
- 39.7** The above provisions would be applicable only in case of variation in rate of taxes and duties on supply of services to OIL and not applicable on taxes and duties on input (goods and services) towards such services.
- 39.8** Any claim or reduction on account of change in law shall be accompanied with

undertaking that the provisions of anti- profiteering clause under GST Act have been complied with.

40.0 SEVERABILITY:

Should any provision of this agreement be found to be invalid, illegal or otherwise not enforceable by any court of law, such finding shall not affect the remaining provisions hereto and they shall remain binding on the parties hereto.

41.0 COMMISSION OF MISCONDUCT/SUBMISSION OF FRAUDULENT DOCUMENT BY THE BIDDER/CONTRACTOR AND BANNING THEREOF:

The information and documents furnished by the bidder/CONTRACTOR in respect of the tender/contract are accepted by COMPANY to be true and genuine. However, if it comes to the notice of the COMPANY anytime either during the pendency of the tender or after award of the contract or after completion the contract that a Bidder/CONTRACTOR furnished fraudulent document/false information in relation to the subject tender/contract or committed any misconduct, appropriate action shall be taken against the Bidder/CONTRACTOR for debarment/banning of the bidder/CONTRACTOR from participating in any future tender of the COMPANY in terms of the COMPANY's Banning Policy, 2017 besides making the CONTRACTOR liable for other penal action including termination of ongoing contract(s) at his/her risk and peril. In such event, the Performance Security in respect of ongoing contract(s) shall be forfeited by the COMPANY.

42.0 SETTLEMENT OF DISPUTES:

42.1 Arbitration (Applicable for Suppliers/CONTRACTORs other than PSU and MSME):

1) Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties are unable to settle mutually, the same shall be referred to Arbitration as provided hereunder:

2) A party wishing to commence arbitration proceeding shall invoke Arbitration Clause by giving 30 days notice to the other party. The notice invoking arbitration shall specify all the points of dispute with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter. If the claim is in foreign currency, the claimant shall indicate its value in Indian Rupee for the purpose of constitution of the arbitral tribunal.

3) It is agreed and undertaken by the Parties that irrespective of country of origin of the CONTRACTOR, the arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996 and under no circumstances, the proceedings shall be construed as International Arbitration.

4) The number of arbitrators and the appointing authority will be as under:

Claim amount (excluding claim for interest and counter claim, if any)	Number of Arbitrator	Appointing Authority
Upto Rs.25.00 Lakh	Not applicable	Not applicable
Above Rs.25.00 Lakh Upto Rs.25 Crore	Sole Arbitrator	OIL
Above Rs. 25 Crore	3 Arbitrators	One Arbitrator by each party and the 3 rd Arbitrator, who shall be the presiding Arbitrator, by the two Arbitrators.

5) The parties agree that they shall appoint only those persons as arbitrators who accept the conditions of the arbitration clause. No person shall be appointed as Arbitrator or Presiding Arbitrator who does not accept the conditions of the arbitration clause.

6) If any of the Arbitrators so appointed dies, resigns, becomes incapacitated or withdraws for any reason from the proceedings, it shall be lawful for the concerned party/arbitrators to appoint another person in his place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his predecessor had left if both parties consent for the same; otherwise, he shall proceed de novo.

7) Parties agree and undertake that neither shall be entitled for any pre-reference or pendente-lite interest on its claims. Parties agree that any claim for such interest made by any party shall be void.

8) The arbitral tribunal shall complete the proceedings, make and publish the award within time stipulated in the Arbitration and Conciliation Act, 1996(as amended)

9) If after commencement of the arbitration proceedings, the parties agree to settle the dispute mutually or refer the dispute to conciliation, the arbitrators shall put the proceedings in abeyance until such period as requested by the parties. Where the proceedings are put in abeyance or terminated on account of mutual settlement of dispute by the parties, the fees payable to the arbitrators shall be determined as under:

- (i) 20% of the fees if the claimant has not submitted statement of claim.
- (ii) 40% of the fees if the pleadings are complete
- (iii) 60% of the fees if the hearing has commenced.
- (iv) 80% of the fees if the hearing is concluded but the award is yet to be passed.

10) Each party shall be responsible to make arrangements for the travel and stay etc. of the arbitrator appointed by it. Claimant shall also be responsible for making arrangements for travel/stay arrangements of the Presiding Arbitrator and the expenses incurred shall be shared equally by the parties.

In case of sole arbitrator, both parties shall equally share all expenditures that may be required to be incurred.

11) The fees and other administrative/secretarial expenses of the arbitrator(s) shall not exceed the model fee as stipulated in Schedule of the Act and such expenses shall be equally borne by the parties.

12) The Place/Seat of Arbitration shall be Guwahati or the place where the contract is executed. The venue of the arbitration shall be decided by the Arbitrator(s) in discussion with the parties. The cost of arbitration sittings shall be equally borne by the parties.

13) The Arbitrator(s) shall give reasoned and speaking award and it shall be final and binding on the parties.

14) Subject to aforesaid, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof shall apply to the arbitration proceedings under this clause.

42.2 Arbitration (applicable in case of Contract awarded on Public Sector Enterprise):

- a) In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract (s) between Central Public Sector Enterprises (CPSEs) and also between CPSEs and Government Departments/Organizations (excluding disputes -concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in OPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018.
- b) A party wishing to commence arbitration proceeding shall invoke Arbitration Clause and refer the dispute(s) to AMRCD with a copy to the other party. The notice invoking arbitration shall specify all the points of dispute with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter
- c) Upon such reference, the dispute shall be decided by the Competent Authority appointed under the AMRCD, whose decision shall bind the parties finally and conclusively. The parties in the dispute will share equally the cost of the arbitration as intimated by the Arbitrator.

42.3 Arbitration (Applicable to Micro, Small and Medium Enterprise)

In the event of any dispute or difference relating to, arising from or connected with the Contract, efforts shall be made to resolve the dispute(s) amicably by mutual consultation and in case such dispute(s) cannot be resolved through mutual consultation, then same shall be resolved through the procedure as prescribed in Section-18 of the Micro, Small and Medium Enterprises Development Act, 2006.

42.4 Resolution of disputes through conciliation by OEC

(Not Applicable in cases where value of dispute is less than Rs. 25 Lakhs and more than 2 Crore)

If any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties are unable to settle mutually, Company at its discretion, on its own or on the request of the CONTRACTOR, may refer the dispute to Outside Expert Committee ("OEC") to be constituted by Corporate Business Committee (CBC), OIL as provided hereunder:

- a) The party desirous of resorting to conciliation shall send a notice of 30 (thirty) days to the other party of its intention of referring the dispute for resolution through OEC. The notice invoking conciliation shall specify all the points of disputes with details of the amount claimed to be referred to OEC and the party concerned shall not raise any new issue thereafter.
- b) OIL shall nominate three outside experts, one each from Financial/commercial, Technical and Legal fields from the Panel of Outside Experts maintained by OIL who shall together be referred to as OEC (Outside Experts Committee).
- c) Parties shall not claim any interest on claims/counterclaims from the date of notice invoking conciliation till execution of settlement agreement, if so arrived at. In case, parties are unable to reach a settlement, no interest shall be claimed by either party for the period from the date of notice invoking conciliation till the date of OEC recommendations in any further proceeding.
- d) The Proceedings of the OEC shall be broadly governed by Part III of the Arbitration and Conciliation Act, 1996 including any modifications thereof. Notwithstanding above, the proceedings shall be summary in nature and Parties agree to rely only upon documentary evidence in support of their claims and not to bring any oral evidence in the OEC proceedings.
- e) OEC shall hear both the parties and recommend possible terms of settlement between the parties. The recommendations of OEC shall be non-binding and the parties may decide to accept or not to accept the same. Parties shall be at liberty to accept the OEC recommendation with any modification they may deem fit.
- f) Where recommendations are acceptable to both the parties, a settlement agreement will be drawn up in terms of the OEC recommendations or with such modifications as may be agreed upon by the parties. The settlement agreement shall be signed by both the parties and authenticated by all the OEC members either in person or through circulation. This settlement agreement shall have the same legal status and effect as that of an arbitration award on agreed terms on the substance of the dispute rendered by an arbitral tribunal under Section 30 of the Arbitration and Conciliation Act, 1996.
- g) OIL will share all other guidelines regarding reconciliation through OEC with the CONTRACTOR when it resorts to settlement through OEC. Both parties agree to adhere to these guidelines.

h) All the expenditure incurred in the OEC proceedings shall be shared by the parties in equal proportion. The parties shall maintain account of expenditure and present to the other for the purpose of sharing on conclusion of the OEC proceedings.

i) The OEC proceedings must be completed within a period of 3(three) months from the date of constitution of the OEC with a provision of extension of one months, subject to mutual agreement. The Place of OEC shall be either at New Delhi or Guwahati.

j) If the parties are not able to resolve the dispute through OEC or do not opt for conciliation through OEC, the party may invoke arbitration clause as provided in the contract.

k) The parties shall be represented by their in-house employees/executives. No party shall bring any advocate or outside consultant/advisor/agent. Ex-officers of OIL who have handled the matter in any capacity directly or indirectly shall not be allowed to attend and present the case before OEC on behalf of Contractor. However, ex- employees of parties may represent their respective organizations.

l) Solicitation or any attempt to bring influence of any kind on either OEC Members or OIL is completely prohibited in conciliation proceedings and OIL reserves the absolute right to close the conciliation proceedings at its sole discretion if it apprehends any kind of such attempt made by the Contractor or its representatives.

42.5 Exclusions

Parties agree that following matters shall not be referred to conciliation or arbitration:

i) Any claim, difference or dispute relating to, connected with or arising out of OIL's decision to initiate any proceedings for suspension or debarment or banning, or decision to suspend or to ban or to debar business dealings with the bidder/CONTRACTOR and/or with any other person involved or connected or dealing with bid/contract/bidder/CONTRACTOR.

ii) Any claim, difference or dispute relating to, connected with or arising out of OIL's decision under the provisions of Integrity Pact executed between OIL and the Bidder/CONTRACTOR.

iii) Any claim, difference or dispute relating to, connected with or arising out of OIL's decision to comply with any order or directive of any statutory or government authority.

iv) Any claim which is less than Rs. 25 Lakh.

43.0 COMPLETION OF CONTRACT:

Unless otherwise terminated under the provisions of any other relevant Clause or extended through written communication, this Contract shall be deemed to have been completed at the expiry of the Period specified in the contract or period of defect liability, as provided for under the Contract, whichever is later.

44.0 TERMINATION:

- 44.1 Termination on expiry of the contract:** This Agreement shall be deemed to have been automatically terminated on the expiry of the contract period unless OIL has exercised its option to extend this contract in accordance with the provisions, if any, of this contract.
- 44.2 Termination of contract for death:** If the CONTRACTOR is an individual or a proprietary concern and the individual or the proprietor dies or if the CONTRACTOR is a partnership concern and one of the partners dies then unless, the COMPANY is satisfied that the legal heir of the individual or the proprietary concern or the surviving partners are capable of carrying out and completing Contract, the COMPANY is entitled to cancel the Contract for the uncompleted part without being in any way liable for any compensation payment to the estate of the deceased CONTRACTOR and/or to the surviving partners of the CONTRACTOR's firm on account of the cancellation of Contract. The decision of the COMPANY in such assessment shall be final & binding on the parties. In the event of such cancellation, the COMPANY shall not hold the estate of the deceased CONTRACTOR and/or the surviving partners of CONTRACTOR's firm liable for any damages for non-completion of the Contract.
- 44.3 Termination on account of Force Majeure:** Unless the contract provides otherwise, either party shall have the right to terminate this Contract on account of Force Majeure as set forth in Article-31.0 [above](#).
- 44.4 Termination on account of insolvency:** In the event that the CONTRACTOR or its collaborator or its guarantor at any time during the term of the Contract, becomes insolvent or makes a voluntary assignment of its assets for the benefit of creditors or is adjudged bankrupt or under the process of insolvency or liquidation, then the COMPANY shall, by a notice in writing have the right to terminate the Contract and all the CONTRACTOR's rights and privileges hereunder, shall stand terminated forthwith.

However, COMPANY shall be at liberty to give the Receiver or Liquidator or Insolvency Professional Manager, as appointed by the Competent Court/Tribunal, the option of carrying out the Contract subject to its technical & financial competence and his providing a guarantee for due and faithful performance of the Contract.

- 44.5 Termination for Unsatisfactory Performance:** If the COMPANY considers that, the performance of the CONTRACTOR is unsatisfactory, or not as per the provision of the Contract, the COMPANY shall notify the CONTRACTOR in writing and specify in details the cause of dissatisfaction. The COMPANY shall have the option to terminate the Contract by giving 15 days notice in writing to the CONTRACTOR, if CONTRACTOR fails to comply with the requisitions contained in the said written notice issued by the COMPANY. In the event CONTRACTOR rectifies its non-performance to the satisfaction of the COMPANY, the option of termination may not be exercised by the COMPANY. If however CONTRACTOR repeats non-performance subsequently, COMPANY shall exercise the option to terminate contract by giving 07 days notice. Such CONTRACTOR shall be put on holiday as per the Banning Policy of OIL [[available at www.oil-india.in](http://www.oil-india.in)].
- 44.6 Termination due to change of ownership and Assignment:** In case the CONTRACTOR's rights and /or obligations under this Contract and/or the

CONTRACTOR's rights, title and interest to the equipment/ material, are transferred or assigned without the COMPANY's written consent, the COMPANY may at its option, terminate this Contract. COMPANY shall not be however under any obligation to accord consent to the CONTRACTOR for change of ownership & assignment of the contract.

- 44.7** If at any time during the term of this Contract, breakdown of CONTRACTOR's equipment results in CONTRACTORS being unable to perform their obligations hereunder for a period of 15 successive days, COMPANY at its option, may terminate this Contract in its entirety or partially to the extent non-performance, without any further right or obligation on the part of the COMPANY, except for the payment of money then due. No notice shall be served by the COMPANY under the condition stated above.
- 44.8 Termination for delay in mobilization:** CONTRACTOR is required to mobilize complete equipment alongwith crew for commencement of services at the specified site within the maximum allowed number of days from the date of LOA/Notice for Mobilization as specified in the special conditions of contract. If the CONTRACTOR (successful bidder) fails to complete the mobilization as above, OIL shall have, without prejudice to any other clause of the CONTRACT, the right to terminate the contract.
- 44.9** Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the COMPANY on giving 30 (thirty) days written notice to the CONTRACTOR due to any other reason not covered under the above Article from **44.1 to 44.8** and in the event of such termination the COMPANY shall not be liable to pay any cost or damage to the CONTRACTOR except for payment of services as per the Contract upto the date of termination.
- 44.10 Consequence of Termination:** In all cases of termination herein set forth, the relative obligations of the parties to the Contract shall be limited to the period up to the date of termination. Notwithstanding the termination of this Contract, the parties shall continue to be bound by the provisions of this Contract that reasonably require some action or forbearance after such termination.

Upon termination of this Contract, CONTRACTOR shall return to COMPANY all of COMPANY's properties, which are at the time in CONTRACTOR's possession.

In the event of termination of contract, COMPANY will issue Notice of termination of the contract with date or event after which the contract will be terminated. The contract shall then stand terminated and the CONTRACTOR shall demobilize their personnel & materials.

Demobilization charges shall not be payable by COMPANY in case of Article from **44.4 to 44.7**

45.0 TO DETERMINE THE CONTRACT:

In such an event (i.e. termination under Article No. 44.4 to 44.9 above), the contract shall stand terminated and shall cease to be in force from the date of such notification by the COMPANY. Thereafter the CONTRACTOR shall stop forthwith any of the work then in progress, except those work which the COMPANY may, in writing, require to be done to safeguard any property or work, or installations from damages, and the COMPANY may take over the remaining

unfinished work of the CONTRACTOR and complete the same through a fresh CONTRACTOR or by other means, at the risk and cost of the CONTRACTOR, and any of its sureties if any, shall be liable to the COMPANY for any excess cost occasioned by such work having to be so taken over and completed by the COMPANY over and above the cost at the rate/cost specified in the schedule of quantities and rates/prices.

46.0 WITHOUT DETERMINING THE CONTRACT: In such an event (i.e. termination under Article No. 44.4 to 44.9 above), the COMPANY may take over the work of the CONTRACTOR or any part thereof and complete the same through a fresh CONTRACTOR or by other means, at the risk and cost of the CONTRACTOR. The CONTRACTOR and any of its sureties are liable to the COMPANY for any excess cost over and above the cost at the rates specified in the schedule of quantities and rates/prices, occasioned by such work having been taken over and completed by the COMPANY.

47.0 ERRING/DEFAULTING AGENCIES:

Erring and defaulting agencies like bidder, CONTRACTOR, supplier, vendor, service provider will be dealt as per OIL's Banning Policy dated 6th January, 2017 available in OIL's website: www.oil-india.com. Moreover, OIL reserves the right to take legal or any other action on the basis of merit of the case.

48.0 MISCELLANEOUS PROVISIONS:

CONTRACTOR shall give notices and pay all fees at their own cost required to be given or paid by any National or State Statute, Ordinance, or other Law or any regulation, or bye-law of any local or other duly constituted authority as may be in force from time to time in India, in relation to the performance of the services and by the rules & regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the services.

CONTRACTOR shall conform in all respects with the provisions of any Statute, Ordinance of Law as aforesaid and the regulations or bye-law of any local or other duly constituted authority which may be applicable to the services and with such rules and regulation, public bodies and Companies as aforesaid and shall keep COMPANY indemnified against all penalties and liability of every kind for breach of any such Statute, Ordinance or Law, regulation or bye-law.

During the tenure of the Contract, CONTRACTOR shall keep the site where the services are being performed reasonably free from all unnecessary obstruction and shall store or dispose of any equipment and surplus materials and clear away and remove from the site any wreckage, rubbish or temporary works no longer required. On the completion of the services, CONTRACTOR shall clear away and remove from the site any surplus materials; rubbish or temporary works of every kind and leave the whole of the site clean and in workmanlike condition to the satisfaction of the COMPANY.

Key personnel cannot be changed during the tenure of the Contract except due to sickness/death/resignation of the personnel or any other justified situation in which case the replaced person should have equal experience and qualification, which will be again subject to prior approval, by the COMPANY.

Acceptance of Scope of Work

We, M/s _____ hereby certify that we accept the Scope of Work for Third party inspection as given at Annexure-I & QAP of the tender as well as the terms and condition of the tender unconditionally.

Authorised
Signatory of
The bidder

Place:

Date:
