
EXPRESSION OF INTEREST (EOI) NO.:

EOI/WLG/CHLU/01/2026-2027

DATED

08.07.2026

Subject: Expression of Interest (EOI) for Shortlisting of Vendors for Procurement of Cased Hole Logging Unit along with Logging Tools and accessories.

1.0 PREAMBLE

OIL INDIA LIMITED (OIL), a Maharatna Central Public Sector Enterprise under the Ministry of Petroleum and Natural Gas, is a premier upstream E&P Company engaged in the business of Exploration, Production & Transportation of Crude Oil & Natural Gas as well as production of LPG, having its Headquarters at Duliajan, Assam, India.

OIL intends to procure 1no. of **Cased Hole Logging Unit** along with logging tools, accessories and associated systems for deployment in its oil and gas wells. In view of the recent increase in well logging activities, the requirement of the proposed unit is of urgent nature to ensure uninterrupted logging operations.

In this regard, OIL invites Expression of Interest (EOI) from reputed and experienced Firms/Bidders for shortlisting for the above-mentioned procurement.

2.0 OBJECTIVE

The objective of this EOI is to:

- 1) Pre-qualify and shortlist technically and financially competent vendors for procurement of Cased Hole Logging Unit.
- 2) Assess vendor capability based on detailed technical specifications and eligibility criteria.
- 3) Facilitate a two-stage procurement process, wherein:

Stage-1: Evaluation of technical and qualifying criteria and shortlisting of vendors.

Stage-2: Invitation of price bids along with additional documents (if required) from shortlisted vendors only.

Note: Only the vendors shortlisted through this EOI shall be eligible to participate in the tendering process for the enclosed item.

3.0 BROAD SCOPE

The procurement broadly includes supply of:

- 1) Truck-mounted Cased Hole Logging Unit
- 2) Surface data acquisition system
- 3) Wireline system and winch
- 4) Downhole logging tools
- 5) Pressure Control Equipment (PCE)
- 6) Rig-up accessories and support systems
- 7) Training, installation and commissioning
- 8) Spares, consumables and documentation

Detailed Scope of Work (SOW) is provided in the attached annexures: **Annexure A** and **Annexure B**.

4.0 EVALUATION CRITERIA

Vendors shall be evaluated based on:

- 1) Compliance with **Technical Specifications (SOW)**
- 2) Compliance with **Pre-Qualifying Criteria (PQC)**
- 3) Submission of all required documentary evidence.

Only those vendors who fully meet the specified criteria shall be considered for shortlisting.

OIL reserves the right to:

- 1) Seek clarifications / additional documents
- 2) Verify submitted credentials

The decision of OIL regarding shortlisting shall be final and binding.

5.0 ATTACHMENTS

The following documents form an integral part of this EOI:

- 1) Annexure-A & Annexure-B:** Technical Specifications / Scope of Work (SOW)
- 2) Annexure-C:** Training & Inspection Requirements
- 3) Annexure-I:** Pre Qualifying criteria (PQC)
- 4) Annexure-E1 & E2:** Delivery, Installation & Commissioning, Warranty and Liquidation damage
- 5) All Relevant Proformas and Appendices as per list in Appendix B1, Appendix D**

6.0 DOCUMENTS TO BE SUBMITTED BY VENDORS

Interested vendors shall submit:

- 1) Clause-wise compliance to **SOW- Technical Checklist (Annexure A and Appendix B1)**
- 2) Clause-wise compliance to Pre Qualifying criteria (**PQC**) with **documentary evidence- PQC Checklist (Appendix D1)**

Incomplete or non-compliant submissions are liable to be rejected.

8.0 SUBMISSION OF EOI

8.1 No price should be indicated in your EOI.

8.2 Oil India Limited will empanel the qualified parties as proven sources (freezing their quoted MAKE and MODEL) and subsequently issue limited tender. The parties must ensure the market availability of their quoted MAKE and MODEL during the entire contract duration.

8.3 Interested Parties having relevant experience and expertise as above are invited to submit their EOIs complete with all documents within 12.08.2026 (13:00 HRS) through courier/post super-scribing “**EXPRESSION OF INTEREST (EOI) FOR SHORTLISTING OF VENDORS FOR PROCUREMENT OF Cased Hole Logging Unit along with Logging Tools and Accessories**” to the following address:

CGM-MATERIALS (HoD)
MATERIALS DEPARTMENT
OIL INDIA LIMITED
DULIAJAN, DIST.- DIBRUGARH
ASSAM-786602

All corrigenda, addenda, amendments, time extension etc. to above enquiry will be published in OIL's Website. The EOI opening date is 12.08.2026 (14:00:00 HRS IST).

8.4 OIL shall not be responsible for any delay or non-receipt of submission.

8.5 Oil India Limited reserves the right to

- (a) either accept or reject any EOI
- (b) cancel the process without assigning any reason(s) whatsoever.

9.0 GENERAL NOTES

(i) This EOI is issued for **shortlisting of vendors** for the subject procurement.

(ii) Only Short listed vendors shall be invited for the subsequent tender, which shall primarily be based on commercial (price) evaluation.

(iii) Changes in any of the tender conditions (if any) post shortlisting shall be notified to all the shortlisted bidders at the time of invitation of tender (i.e. at the time of seeking price bids) through special conditions of contract (SCC). Shortlisted bidders will be required to confirm their acceptance to SCC at the time of invitation of tender.

(iv) This EOI is non-binding and does not constitute any contractual obligation on OIL.

(v) Submission of EOI does not guarantee shortlisting.

(vi) OIL reserves the right to modify, cancel, or terminate the EOI process at any stage without assigning any reason.

(vii) OIL may conduct discussions/meetings with vendors, if required.

Section	S/ N	Items Description
Section-A	1.	Cased Hole Logging Unit
Section-B	2.	Logging Unit with Data Acquisition System
	3.	Rig-Up Accessories
	4.	Casing Collar Locator
	5	Shooting GR/CCL
	6.	Plug/Packer Setting Tool And Junk Catcher
	7.	Sinker Bar
	8.	Multi-Finger Imaging Tool

Section - B	9.	Free Point Tool
	10	Skid Mounted 10k Psi Wireline Pressure Control Equipment System & Other Related Accessories
	11	Bowen 150 Series Cased Hole Fishing Equipment
	12	Spares And Consumables
	13	Technical Manuals
	14	Vendor To Quote Any Other Items Deemed Required Under Quote

SECTION – A
TECHNICAL SPECIFICATIONS FOR CASED HOLE LOGGING UNITS
AUTOMOBILE & HYDRAULIC SECTION

Note to bidder:

1. The bidder shall provide their response and mention applicable information/ Complied / Not Complied / Not Applicable / Make & Model etc. (as applicable) against individual clauses in this Section – A.
2. The bidder shall mention details of Reference Document name / Serial number / Page number of bid for documentary evidence (if any)
3. The bidder shall submit the filled-up Section – A document along with their technical bid.

Technical Specifications:

Clause No.	Clause Description	Bidder's Response
1.0	GENERAL:	
a.	The Cased Hole Logging Unit(s) shall be ergonomically designed and should be suitable considering the unit's application in national highways, state highways, district roads, rural / village roads, slushy oil & gas well sites which may not be smooth every time. The village roads are sometimes gravel roads as normally encountered in oil & gas fields of India.	
b.	The Cased Logging Unit(s) shall be mounted with complete logging cabin with all requisite hydraulic systems, pneumatic systems, fittings, accessories, safety features, etc. and shall be built complete in all respects without requiring any further fitment / modification on delivery to Oil India Limited by the supplier (i.e. successful bidder). The logging cabin and equipment shall be mounted on Truck chassis. Offers with logging cabin and equipment mounted on articulated trailer shall not be acceptable.	
c.	All components and systems should be assembled in such a manner to provide ease of maintenance.	
2.0	EQUIPMENT DETAILS:	
2.1	OVERALL DIMENSIONS OF EACH COMPLETE UNIT:	

Clause No.	Clause Description	Bidder's Response
a.	Overall Width of each complete unit: Not more than 2600 mm. The bidder shall mention the Overall Width of each complete unit in the technical bid.	
b.	Overall Height of each complete unit: Not more than 4500 mm from ground level. The bidder shall mention the Overall Height (from ground level) of each complete unit in the technical bid.	
c.	Overall Length of each complete unit: Not more than 12000 mm. The bidder shall mention the Overall Length of each complete unit in the technical bid.	
d.	Ground Clearance: Ground clearance shall be as per OEM of the offered Truck. For operational convenience, the add-on equipment i.e. subsequently mounted components on the original chassis should be mounted at height preferably not less than 450 mm from ground level. It shall be bidder's endeavour to mount subsequently fitted undercarriage components (i.e., other than original Truck chassis OEM mounted components) at maximum possible height to avoid hitting / fouling while moving on uneven roads. The bidder shall specifically take care that no subsequently fitted undercarriage components (i.e. other than original Truck chassis OEM mounted components) shall be permanently mounted / fitted by the equipment manufacturer at a height below than 450 mm behind the rear axle wheels up to the end of rear overhang.	
2.2	GENERAL ARRANGERMENT (GA) DRAWING OF COMPLETE UNIT:	
a.	The bidder shall submit GA (General Arrangement) drawing of the offered complete unit (i.e. Truck with driver's cabin, logging cabin and all other items of the Cased Hole Logging Unit etc.) with major dimensions of the	

Clause No.	Clause Description	Bidder's Response
	complete unit and indicating the position of all major components & their mounting on the vehicle along with the technical bid.	
b.	<u>Note:</u> "Complete unit" in above means Truck with Driver's cabin etc., Logging cabin containing all equipment like drum, hydraulic pump(s), hydraulic motor(s), spare wheel etc. that are permanently mounted on the unit.	
2.3	TRUCK CHASSIS AND PLATFORM:	
a.	Brand new Truck chassis manufactured not prior to six months from the date of issuance of Purchase Order of Oil India Limited (OIL).	
b.	The truck chassis must be of Make: Ashok Leyland / Tata / Mahindra / Eicher / Bharat Benz / Volvo / Kenworth / International / Peterbilt / Scania / Mercedes Benz. The offer shall be with make, model, specifications, fittings, accessories etc. as mentioned in the tender.	
c.	The platform where the Logging cabin and equipment shall be mounted should be robust in design and capable of withstanding and transmitting static as well as dynamic loads uniformly to the chassis. The bidder shall take special care in selecting and designing the platform considering the unit's application in roads of oil & gas fields of India, which may not be smooth every time. The mounting of Logging cabin and Logging unit equipment items on the Truck chassis shall be the responsibility of the supplier (i.e. successful bidder).	
d.	The bidder shall clearly mention the Make & Model of the offered Truck chassis in the technical bid.	
e.	The bidder shall submit the technical leaflet / brochure of the offered Truck chassis along with the technical bid. <u>Note:</u> In case of common technical leaflet containing multiple models of Truck chassis, bidder shall clearly indicate / highlight the offered model of Truck chassis in the technical leaflet.	

Clause No.	Clause Description	Bidder's Response
2.4	TRUCK ENGINE:	
a.	One (01) number of water-cooled / liquid-cooled diesel fuel engine of adequate power [not less than 400 HP at rated rpm] as per Truck manufacturer suitable for road drive of the Truck as well as Logging operation etc. shall be provided. Power for Logging operation, etc. shall be provided by Truck Engine only.	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Water-cooled / liquid-cooled diesel fuel Engine. (Yes/ No).	
(ii)	Make & model of the offered Engine.	
(iii)	Maximum power of the offered Engine.	
(iv)	Maximum torque of the offered Engine.	
(v)	Technical specification catalogue / brochure with the technical details of the offered Engine.	
2.5	TRUCK EMISSION NORMS:	
a.	The offered Truck shall have to comply with the emission norms BS (Bharat Stage) –VI OBD Stage II / EURO-VI Stage-E. The emission norms shall comply Real Drive Emissions (RDE) and Portable Emissions Measurement System (PEMS).	
b.	The bidder shall mention the emission norms of the offered Truck in the technical bid.	
2.6	TRANSMISSION:	
a.	The offered Truck chassis shall be provided with automatic / automated transmission having forward gears, neutral & reverse gear(s) with suitable automatic gear shifter and without clutch pedal as supplied with chassis by the manufacturer of the offered Truck for road drive of the unit. The Truck transmission may also be used for Well Logging Unit operation, etc.	

Clause No.	Clause Description	Bidder's Response
	The bidder shall note that Manual Transmission with clutch pedal is not acceptable. The offered Transmission shall be compatible with the Truck engine. Suitable Transfer Case / PTOs (Power Take Off) / drivelines as per design / requirement shall be provided.	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Type of offered transmission (automatic / automated transmission, with automatic gear shifter).	
(ii)	Make & model of the offered transmission.	
(iii)	Number of forward gears in the offered transmission.	
(iv)	Number of reverse gear(s) in the offered transmission.	
(v)	Technical specification catalogue / brochure with technical details of the offered transmission.	
(vi)	Mechanical power flow block diagram from Engine to Axles / Wheels for Road drive indicating all major components like Engine, Transmission, Driveline, Axles, Wheels etc.	
(vii)	Mechanical power flow block diagram from Engine to Drum for Logging Unit operation, etc. indicating all major components like Engine, Transmission, Transfer case (if any), PTO(s), Hydraulic Pump(s), Hydraulic Motor(s), Torque Hub, Drum etc.	
(viii)	Make & model of the offered Transfer case (if any).	
(ix)	Technical specification catalogue / brochure with technical details of the offered Transfer case (if any).	
(x)	Make & model of the offered PTO(s).	
(xi)	Technical specification catalogue / brochure with technical details of the offered PTO(s).	
2.7	AXLES, WEIGHT, WHEELS & SUSPENSION	

Clause No.	Clause Description	Bidder's Response
	Ministry of Road Transport & Highways (MoRTH), Government of India has notified the Maximum Safe Axle Weight vide its Circular No. RT11028/11/2017-MVL containing the gist of Notification No. S.O. 3467 (E) dated 16.07.2018 as amended by Notification No. 3881 (E) dated 06.08.2018. This Circular No. RT11028/11/2017-MVL containing the gist of Notification No. S.O. 3467 (E) dated 16.07.2018 as amended by Notification No. 3881 (E) dated 06.08.2018 is further herein referred to as "Government circular on Maximum Safe Axle Weight". The requirements notified vide "Government circular on Maximum Safe Axle Weight" are to be fulfilled / met for plying the vehicle in public roads in India. "Government circular on Maximum Safe Axle Weight" is provided under Clause No. 11.0	
2.7.1	Drive (Axle Configuration):	
a.	Depending upon the total weight (mass) of the complete unit offered by the bidder and the safe axle weight limits stipulated in the "Government circular on Maximum Safe Axle Weight", the bidder shall offer the Truck chassis of any of the following drive (Axle configuration): 6x4 Drive (Two powered rear drive axles & One non-powered front steer axle) Or 8x4 Drive (Two powered rear drive axles & other axles as per design)	
b.	No preference shall be provided during evaluation to any bidder based on drive (axle configuration). All Make / Model of vehicle(s) meeting tender specifications shall be treated as equal and at par.	
c.	The bidder shall mention the drive of the offered Truck in the technical bid.	

Clause No.	Clause Description	Bidder's Response
2.7.2	Axle:	
a.	Front Axle: Front axle(s) as per design and meeting tender specifications shall be provided. At least 01 (one) front axle shall be steer axle.	
b.	Rear Axle: Rear axle(s) as per design and meeting tender specifications shall be provided. 02 (Two) numbers of powered rear axles shall be provided. Rear drive axles shall have differential lock facility with alarm / indicator, to be operated as & when required from Driver's cabin.	
c.	Bidder shall ensure that: 1. The estimated axle loading on an axle, as per Clause No. 2.7.3 / a. , shall not exceed the safe axle weight limit for rigid vehicles as stipulated in "Government circular on Maximum Safe Axle Weight" of that axle based on the type of axle offered by the bidder. 2. The estimated axle loading on an axle, as per Clause No. 2.7.3 / a. , shall not exceed Truck manufacturer's declared Axle capacity of that axle.	
d.	The bidder shall mention & submit the following information in the technical bid for each Truck:	
(i)	Total number of axles in the offered Truck chassis.	
(ii)	Total number of front axle(s) in the offered Truck chassis.	
(iii)	Total number of rear axles in the offered Truck chassis.	
(iv)	Total number of steer axle(s).	
(v)	Total number of powered rear axles.	
(vi)	Truck manufacturer's declared Axle capacity of each axle (in kg).	

Clause No.	Clause Description	Bidder's Response
	(Axle wise information to be provided for all the axles in the offered unit).	
(vii)	Estimated axle loading on the respective axle of the complete unit (in kg), as per Clause No. 2.7.3 / a. (Axle wise information to be provided for all the axles in the offered unit).	
(viii)	Technical specification catalogue/ brochure with technical details of the offered front axle(s).	
(ix)	Technical specification catalogue/ brochure with technical details of the offered rear axles.	
2.7.3	Total Weight (Mass) [i.e. Gross Vehicle Weight (GVW)] Of each complete unit	
a.	The Total weight (mass) [i.e. Gross Vehicle Weight (GVW)] of each complete unit shall be as minimum as possible. Total weight (mass) [i.e. Gross Vehicle Weight (GVW)] is the weight of the complete unit i.e. total of weight of the Truck with Driver's cabin etc., weight of Logging cabin, weight of all equipment like Drum etc., items, accessories, hydraulic pumps, hydraulic motors, hoses, materials, spare wheels, hydraulic oil, diesel etc. that are permanently mounted on the unit. However, Total weight (mass) [i.e. Gross Vehicle Weight (GVW)] of each complete unit shall not include weight of logging tools and weight of the logging cables.	
b.	The bidder shall mention the Total weight (mass) [i.e. Gross Vehicle Weight (GVW)] of each complete unit (in kg), as above, in the technical bid. The bidder shall ensure that the above Total weight (mass) [i.e. Gross Vehicle Weight (GVW)] of each complete unit is equal to sum of estimated axle loading on all axles of the complete unit.	
2.7.4	Wheels & Tyres:	
a.	The Truck chassis shall be fitted with suitable wheels with Tube type / Tubeless type Tyre of adequate ply rating.	

Clause No.	Clause Description	Bidder's Response
	The offered Truck chassis shall be provided as per following wheel configurations: (i) Each steer axle shall have 01 No. of wheel on each side (i.e. total 02 Nos. of wheels for each steer axle). (ii) Each drive axle shall be provided with 02 Nos. of wheels on each side (i.e. total 04 Nos. of wheels for each drive axle & i.e. total 08 Nos. of wheels for 02 Nos. of drive axle). (iii) Other axle (if any) apart from (i) & (ii) above shall be provided with suitable number of wheels as per design.	
b.	Mounting arrangement for at least 01 (One) number of spare wheel shall be provided in the Truck.	
c.	It shall be bidder's endeavour to offer wheels of same size & type, if possible.	
d.	The bidder shall mention & submit the following information in the technical bid for each Truck:	
(i)	Number of wheels in the front axle(s). (Axle wise information to be provided)	
(ii)	Tyre size of front axle wheels. (Axle wise information to be provided)	
(iii)	Number of wheels in the rear axles. (Axle wise information to be provided)	
(iv)	Tyre size of rear axle wheels. (Axle wise information to be provided)	
(v)	Total number of wheels in the complete unit.	
2.7.5	Suspension:	
a.	Front Axle Suspension: Heavy duty multi-leaf spring suspension shall be provided for front axle(s). Rubber / Air/ Hydraulic suspension in front axle(s) will not be accepted.	
b.	Rear Axle Suspension:	

Clause No.	Clause Description	Bidder's Response
	Preferably bogie suspension with leaf springs or suitable pneumatic suspension system shall be provided in rear axles. Hydraulic suspension in rear axles will not be acceptable.	
c.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Make & model of offered front axle suspension. (Axle wise information to be provided)	
(ii)	Technical specifications catalogue / brochure with technical details of the offered front axle suspension. (Axle wise information to be provided)	
(iii)	Type of offered rear axle suspension . (Mechanical / Pneumatic). (Axle wise information to be provided)	
(iv)	Make & model of offered rear axle suspension. (Axle wise information to be provided)	
(v)	Technical specifications catalogue / brochure with technical details of the offered rear axle suspension. (Axle wise information to be provided)	
2.8	STEERING:	
a.	The offered Truck chassis shall have Power assisted steering and shall have Right Hand steering system (i.e. steering wheel shall be on the right hand side inside the driver's cabin when viewed from the rear of the truck chassis). Truck chassis with Left Hand steering system shall not be acceptable.	
2.9	BRAKE:	
a.	Service Brake: Multiple Circuit Pneumatic brake acting on all wheels with ABS shall be provided and to be operated from Driver's Cabin.	
b.	Parking Brake: Suitable parking brake shall be provided in the Driver's Cabin to be used while parking the Truck. The	

Clause No.	Clause Description	Bidder's Response
	parking brake shall be hand operated from Driver's Cabin. It shall automatically get engaged in the event of low / no air pressure.	
c.	Preferably buzzer warning for low air pressure to be provided.	
2.10	ELECTRICAL SYSTEM:	
a.	Suitable electrical starting, charging and lighting systems etc. shall be provided in the Truck.	
b.	Suitable electrical master switch to disengage all electrical circuits from battery shall be provided in the Truck as per Truck manufacturer.	
c.	Covered Battery Box shall be provided. Battery box shall not be located inside the Driver's Cabin.	
2.11	TRUCK ENGINE FUEL TANK & DIESEL EXHAUST FLUID (DEF) TANK:	
a.	Lockable truck engine fuel tank(s) of approximately not less than 400 Liters total capacity shall be provided in the Truck chassis. Suitable strainer at the opening of the tank shall be provided to prevent entry of foreign materials. In case, the Truck engine comes with multiple fuel tanks, all the truck engine fuel tanks shall be connected to each other.	
b.	Suitable Diesel Exhaust Fluid (DEF) tank as per the truck manufacturer shall be provided.	
c.	The bidder shall mention & submit the following information in the technical bid for each Truck:	
(i)	Number of fuel tank(s) in the Truck.	
(ii)	Capacity of each fuel tank in the Truck.	
2.12	DRIVER'S CABIN:	
a.	The Driver's cabin of the Truck shall be ergonomically designed factory built (original built, supplied with the	

Clause No.	Clause Description	Bidder's Response
	Truck chassis by the Truck manufacturer) Air Conditioned driver's cabin with seating capacity of minimum 02 (two) persons (including Driver). All the controls required for road drive of the unit should be clearly arranged to have easy access to the driver inside the Driver's cabin while driving the unit. The driver's seat & co-driver's seat should be comfortable and ergonomically designed with adjustable mechanism and shall have seat belts as per norms.	
b.	The Truck unit shall be fitted with dashboard inside the Driver Cabin with all standard gauges & fittings like air pressure gauges, charging system gauge, engine oil pressure gauge, engine temperature gauge, fuel gauge, Transmission oil pressure (if any) & Temperature meters (if any) etc. and any other items with warning displays, as per the Truck manufacturer.	
c.	The Truck unit dashboard shall have Speedometer indicating the speed in Kilometers per hour and the Odometer shall be with Kilometers calibration system.	
d.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Seating capacity (including driver) inside the Driver's cabin.	
(ii)	Air Conditioned driver's cabin (Yes / No)	
2.13	OTHER FITTINGS & ACCESSORIES: The unit shall be driven on roads in India having traffic rules for Right Hand Drive vehicles only. Accordingly, the following fittings and accessories are to be fitted / provided in each Truck for safe movement of the unit on road. All the lightings / controls etc. as mentioned below and as required for road drive are to be operated from the Driver's cabin of the Truck.	
a.	All standard accessories, fittings, lightings, safety features etc. as per the Truck manufacturer.	
b.	Headlamps. The photometry of the headlamps to suit "keep left" traffic.	

Clause No.	Clause Description	Bidder's Response
c.	Stop Lamps.	
d.	Parking Lamps.	
e.	Fog Lamps.	
f.	Direction Indicator Lamps.	
g.	Hazard Warning Lamps.	
h.	Sufficient side marker lights, top marker lights, rear & side reflectors.	
i.	Driver Cabin Lights.	
j.	02 (Two) Nos. of adjustable search lights, mounted at top behind the Driver cabin of the Truck are to be fitted in the unit(s) for illuminating the logging cabin, equipment, etc. at rear.	
k.	Horn.	
l.	Rear-view mirrors at both sides.	
m.	Blind spot mirrors, if possible.	
n.	Windscreen Wipers.	
o.	Mudguard with mud flaps.	
p.	An audible back-up alarm is to be provided to sound continuously when the Truck is put in reverse gear.	
q.	Well covered vertical engine exhaust with thermal non-conducting material / heatshield (as per the Truck manufacturer) located behind and projected above the top of the driver's cabin shall be provided. The vertical exhaust pipe shall be such that rainwater ingress shall not be possible.	
r.	Suitable heavy duty towing attachment (Hook type or Pin type) at front & rear, capable of pulling / towing the unit	

Clause No.	Clause Description	Bidder's Response
	from bogged down situation in slushy areas in oilfields from front as well as rear shall be provided.	
s.	The Truck engine exhaust shall be fitted with suitable Spark Arrestor. The Spark Arrestor may be additional attachment to be fitted with the exhaust or there shall be chassis in-built internal mechanism to prevent discharge of open flame and sparks in the exhaust. The bidder shall confirm in the technical bid whether the Spark Arrestor shall be additional attachment or chassis in-built internal mechanism. In case Spark Arrestor is not needed or not recommended as per the Truck manufacturer as additional attachment, the bidder shall submit supporting document(s) from the Truck manufacturer or Truck manufacturer's dealer along with the technical bid.	
t.	The Truck shall be fitted with Speed Limiting Device (SLD) & its accessories. The maximum road speed of the Truck with Speed Limiting Device shall preferably be 50 km/hour without affecting the other performance parameters of the Truck in any manner. The speed limitation function shall not actuate the Truck's service braking system. The Speed Limiting Device shall be fail-safe and so designed to act on road drive only and it must not interfere the logging operations in any way. The set speed shall be indicated on a plate in a conspicuous position in the Driver's compartment of the vehicle. Necessary certification / documentation from appropriate authority regarding the speed limitation function or the SLD is to be accompanied along with the supply.	
u.	The Truck shall be fitted with Vehicle Tracking System (VTS) compatible for use in India. The supplier (i.e. successful bidder) may also fit the VTS (compatible for use in India) after arrival of the unit in India. Necessary certification/ documentation from appropriate authority regarding the Vehicle Tracking System (VTS) is to be accompanied along with the supply.	

Clause No.	Clause Description	Bidder's Response
v.	The Truck shall preferably have Air Bags for Driver.	
w.	Wherever feasible, Side / Lateral Underrun Protective Device (SUPD)s, Front Underrun Protective Device (FUPD), Rear Underrun Protective Device (RUPD) shall be fitted in the unit. Note: 1. FUPD/ SUPD/ RUPD are structures that prevent smaller vehicles from getting underneath etc. during collision as per AIS 069, IS: 14812, IS: 14682 or similar standards. 2. The equipment manufacturer shall check the feasibility of providing the SUPDs, RUPDs during manufacturing and arrange to provide the same accordingly as per feasibility in the unit. FUPDs / SUPDs / RUPDs provided by the equipment manufacturer shall be of detachable type and shall not be permanently fitted / welded to the Truck chassis.	
x.	Retro reflective marking (3M make or any other make, 50 mm width) on the front, rear and both side of the Driver's cabin as per the colour code- Front: White, Rear: Red and Sides: Yellow as per AIS: 090 / applicable standard.	
y.	01 (one) number Fire Extinguisher inside Driver's Cabin of Truck.	
z.	01 (one) number First Aid Box inside Driver's Cabin of Truck.	
aa.	Wheel Wrench & Handle. In case, the wheel nuts at front and rear are of different sizes, then separate Wheel Wrench & Handle for both front & rear shall be supplied along with each unit.	
ab.	01 (One) number of Battery operated wrench of suitable capacity / rating, for opening & tightening wheel nuts at front and rear of the Truck.	
ac.	04 (four) numbers of wheel chocks.	
ad.	02 (two) numbers minimum 40 MT capacity hydraulic jack with handle.	

Clause No.	Clause Description	Bidder's Response
ae.	02 (two) numbers of complete spare wheel assembly (even in case of identical front & rear wheels)	
af.	01 (one) number of tyre pressure gauge for tyre pressure measurement.	
ag.	01 (one) number of Pneumatic Heavy duty Grease Pump, complete with Grease container of minimum 20 kg capacity.	
ah.	Any other standard items / accessories provided by the Truck manufacturer.	
ai.	In case any fittings and accessories as mentioned above does not come along with the Truck chassis from the Truck chassis manufacturer , the supplier (i.e. successful bidder) shall arrange such fittings & accessories from any other sources and provide the same without any extra cost to Oil India Limited (OIL).	
2.14	TOOL KIT FOR GENERAL MAINTENANCE OF TRUCK: A toolkit consisting of tools given below shall be supplied along with each unit at supplier's cost:	
a.	Set of Ring Spanners [Sizes(mm): 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32], at least 01 number of each size.	
b.	Set of Open Ended Spanners [Sizes(mm): 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32], at least 01 number of each size.	
c.	6 inch Long Nose Plier – 01 number.	
d.	Screwdriver (Small, Medium, Long) – 03 numbers.	
e.	8 Inch Adjustable Wrench – 01 number.	
f.	Hammer with Handle – 01 number.	
g.	Chisel – 02 numbers.	
h.	Centre Punch – 01 number.	

Clause No.	Clause Description	Bidder's Response
i.	Drift Punch – 02 numbers.	
j.	File, Flat, Bastard Cut with Handle, 10 inch – 01 number.	
k.	File, Flat, Smooth Cut with Handle, 10 inch – 01 number.	
l.	Brass Punch – 01 number.	
m.	Oil Can – 01 number.	
n.	Allen key set (as applicable).	
o.	Toolbox / Tool bag for above tools (not mounted on Truck) – Minimum 01 number or as required as per manufacturer's standard.	
	Note: (i)The sizes of the above mentioned tools may change as per manufacturer's standard. (ii) In case any tools as mentioned above does not come along with the Truck chassis from the Truck chassis manufacturer, the supplier (i.e. successful bidder) shall arrange such tools from any other sources and provide the same without any extra cost to Oil India Limited (OIL).	
2.15	TYPE APPROVAL CERTIFICATE:	
a.	Type Approval Certificate of vehicle is required for the following activities in India: i. Uploading the vehicle details in the relevant Government of India portal (VAHAN / Homologation / Parivahan portal) for registration of vehicle as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules, 1989 of India which is mandatory for plying of the vehicle in roads in India. ii. Custom clearance of the vehicle as per import policy conditions / guidelines of India Chapter-87 of ITC (HS), 2022, Schedule 1- Import Policy, Section: XVII, in case of imported vehicle from other countries to India.	

Clause No.	Clause Description	Bidder's Response
b.	In case the vehicle is manufactured in India, the vehicle shall be compliant to Central Motor Vehicle Rules 1989 of India and its amendments. In case the vehicle is imported from other countries to India, the vehicle shall be compliant with the import policy of Government of India. The bidder / supplier shall have to submit the Type Approval Certificate, as applicable, along with the supply. Submission of Type Approval Certificate shall be as per Central Motor Vehicle Rules of India and / or as per the import policy of Government of India, as applicable, as on the date of supply.	
c.	The list of Type Approval Certificate issuing agencies are mentioned in Central Motor Vehicle Rules, 1989 of India & its amendments. In case of imported vehicle from other countries to India, at the time of Customs clearance, a Type Approval Certificate / COP, of an international accredited agency including a notarized English translation thereof shall be furnished. This Type Approval Certificate shall stipulate that vehicle to be imported complies with all the ECE Regulations. The list of international accredited agencies approved for issuance of Type Approval Certificate is available on DGFT website, under Policy Circular No. 12 (RE- 2013)/2009-2014 dated 15.01.2014 issued by Ministry of Commerce & Industry, Department of Commerce, Director General of Foreign Trade (DGFT), New Delhi subjecting "Type Approval issuing agencies under Policy Condition number 7 and 9 of Chapter 87 of ITC (HS) 2012".	
d.	Bidder / supplier shall ensure adherence to any subsequent revisions to the above referred Policy Circulars that may be issued in future by DGFT. Bidder shall note that, they shall be conversant with the policy of Government of India and Oil India Limited (OIL) shall not be liable in this regard whatsoever.	
e.	The above vehicle Type Approval Certificate to be submitted shall be for the entire Truck chassis. In case any bidder / supplier wishes to submit the Type Approval	

Clause No.	Clause Description	Bidder's Response
	Certificate for whole vehicle (i.e. Truck chassis along with the items mounted on the Truck chassis), Oil India Limited shall have no objection. However, bidder / supplier is to note that, the Type Approval Certificate of individual component(s) of the vehicle shall not be considered as vehicle Type Approval Certificate.	
f.	Notwithstanding anything mentioned elsewhere in this document, submission of Type Approval Certificate/ Conformity of Production (CoP) shall be as per the guideline of Government of India as on the date of supply.	
2.16	SPECIAL NOTES:	
a.	All lights shall be covered to the extent possible, with suitable guard to prevent damage. The guards shall have detachable provision.	
b.	The electrical connections, other than those comes along with the Truck, shall be suitable to operate in oilfield areas. The lightings shall comply road vehicle lighting regulations. Screw-in bulbs shall not be used as far as possible. The electrical wirings shall be fixed and protected as to minimize accidental damage or undue wear. The wirings shall be insulated, and the electrical circuits shall be protected against overloading by fuses or automatic cut-outs. Adequate steps shall be taken to ensure electrical continuity and wherever necessary, components shall be bonded by copper straps. The junction boxes, if any, shall be sealed.	
c.	In case of procurement of multiple [i.e. more than 01 (one)] unit against this tender, all the Truck units including all the systems like Hydraulic System, Pneumatic System etc. offered by the bidder in the tender and to be supplied by a successful bidder (i.e. supplier) in future against this tender shall be identical and shall have same design in all respects.	
d.	In case the bidder offers more than one Truck chassis make & model in the technical bid, such bidder shall submit their technical specifications for each offered Truck chassis make & model unambiguously against the requirements of each clause of the tender document. Such bidder shall also to note that, the make & model, design etc. of all the Cased	

Clause No.	Clause Description	Bidder's Response
	Hole Logging Units to be supplied finally shall be same & identical in all respects in the event of order. The bidder to confirm the same in technical bid.	
e.	In case the bidder offers more than one Make & Model Truck chassis along with all technical / supporting documents required for evaluation purpose, the price offered in price bid must be firm and unique (same) for all the makes and models. Bidder must submit a single price without any condition which should be valid for all offered makes & models quoted by the bidder. The bidder shall ensure and confirm the same in technical bid. Offers with conditional / optional price shall be rejected at any point of time.	
f.	The supplier may, if required and at its sole discretion, engage a body builder to carry out the necessary body fabrication jobs, mounting of equipment etc. on the Truck chassis. However, the supplier shall solely be responsible for the execution of the entire project, including fabrication job, mounting of equipment etc. irrespective of whether they engage body builder or not.	
g.	No preference shall be provided during evaluation for vehicle(s) with higher specifications. All Make/ Model of vehicle(s) meeting tender specifications shall be treated as equal and at par.	
3.0	HYDRAULIC SYSTEM FOR LOGGING OPERATION:	
3.1	The hydraulic system for logging operation shall be as per manufacturer's design meeting the following conditions: a. Winch (logging) drum shall be driven by set of "hydraulic motor – torque hub combination". The "hydraulic motor – torque hub combination" shall be directly mounted on the winch drum. Chain drive / Belt drive mechanism for driving the winch drum shall not be acceptable. b. The design shall ensure that the brakes of winch drum remain engaged until and unless the drum is selected for operation or the brakes are released.	

Clause No.	Clause Description	Bidder's Response
	c. All hydraulic hoses shall be properly marked (at both the ends) for easy identification during maintenance / replacement.	
3.2	Make & Model of Major Components of Hydraulic System:	
a.	It shall be bidder's endeavour to offer the following items as per Makes indicated against each item. (Other suitable makes & models are however equally acceptable in case of operational and / or design requirements).	
b.	Hydraulic Pump(s): Suitable hydraulic pump(s) shall be provided as per bidder's design for the unit. Suggested Make for Hydraulic pump(s): Rexroth / Parker / Eaton / Sauer-Danfoss / Linde.	
c.	The bidder shall mention & submit the following information in the technical bid for each unit:	
(i)	Number of Hydraulic pump(s) in the hydraulic system.	
(ii)	Make & Model of each Hydraulic Pump for winch (logging) drum operation. (Pump-wise information is to be provided)	
(iii)	Make & Model of each Hydraulic Pump for alternator drive operation. (Pump-wise information is to be provided)	
(iv)	Technical leaflet for each Hydraulic Pump such as Hydraulic Pump for winch operation, Hydraulic Pump for alternator drive, etc. <u>Note:</u> In case of common technical leaflet containing multiple models of Hydraulic Pump, bidder shall clearly indicate / highlight the offered model of Hydraulic Pump in the technical leaflet(s).	
d.	Hydraulic Motor(s):	

Clause No.	Clause Description	Bidder's Response
	Suitable hydraulic motor(s) shall be provided as per bidder's design for the unit. Suggested Make for Hydraulic motor(s): Rexroth / Parker / Eaton / Sauer-Danfoss / Linde.	
e.	The bidder shall mention & submit the following information in the technical bid for each unit:	
(i)	Number of Hydraulic motor(s) in the hydraulic system.	
(ii)	Make & Model of each Hydraulic Motor for winch (logging) drum operation. (Motor-wise information is to be provided)	
(iii)	Make & Model of each Hydraulic Motor for alternator drive operation. (Motor-wise information is to be provided)	
(iv)	Technical leaflet for each Hydraulic Motor such as Hydraulic Motor for winch operation, Hydraulic Motor for alternator drive, etc. <u>Note:</u> In case of common technical leaflet containing multiple models of Hydraulic Motor, bidder shall clearly indicate / highlight the offered model of Hydraulic Motor in the technical leaflet(s).	
f.	Torque Hub for Winch Operation: Suitable Torque hub shall be provided as per bidder's design for logging operation by the unit. Suggested Make for Torque hub: Fairfield / Rexroth.	
g.	The bidder shall mention & submit the following information in the technical bid for each unit:	
(i)	Number of Torque hub(s).	
(ii)	Make & Model of each Torque hub.	
(iii)	Technical leaflet for each Torque hub.	

Clause No.	Clause Description	Bidder's Response
	<u>Note:</u> In case of common technical leaflet containing multiple models of Torque hub, bidder shall clearly indicate / highlight the offered model of Torque hub in the technical leaflet(s).	
h.	Hydraulic Hoses: Suitable hydraulic hoses shall be provided in the hydraulic system as per bidder's design for the unit. Suggested Make for Hydraulic hose: Parker / Gates / Eaton / Power Grip / Hansa-Flex.	
i.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Make of hydraulic hoses.	
4.0	MANUALS & CATALOGUES: The following Manuals & Catalogues (in English language) shall be supplied along with the unit for <u>each</u> unit. All the manuals & catalogues shall contain only those components / systems that have been used in the unit i.e. the same must be CUSTOM ILLUSTRATED MANUALS / CATALOGUES ONLY – not the generalized ones. The manuals & catalogues supplied should be specific to the make / model of the equipment / part / components supplied in the units. In case the manuals & catalogues supplied also contains equipment / part / components other than those fitted in the units, then the respective make / model of the equipment / part / components supplied in the units should be clearly marked in the manuals & catalogues for ease of identification. Bidder to confirm that the following will be provided along with supply:	
a.	Preferably, 01 (One) set of Spare Parts Catalogue with Part Numbers and Workshop & Service Manual for all components / systems of truck chassis like Engine,	

Clause No.	Clause Description	Bidder's Response
	Transmission, PTO(s), transfer case (if any), axles, brakes, suspension, steering, electrical & pneumatic systems, etc. shall be supplied along with each unit. These Spare Parts Catalogue with Part Numbers and Workshop & Service Manual shall be provided by the supplier in any one of the following forms: (a) Hard copy format (i.e. in printed form) OR (b) Soft copy format (i.e. in USB drive) In case, the supplier (i.e. successful bidder) cannot provide the above Spare Parts Catalogue with Part Numbers and Workshop & Service Manual along with the supply, the supplier (i.e. successful bidder) shall promptly provide Part Number and other details of Truck related spares / service on OIL's intent to procure the spares / service and the request for budgetary quotation (BQ) prior to placement of formal purchase order for the spares / services by OIL in future. The bidder shall confirm the compliance of same in the technical bid.	
b.	01 (One) set of Driver's manual in English language for vehicle, if provided by the Truck manufacturer.	
c.	List of all the warning symbols, etc. configured and displayed in the dashboard of the supplied Truck along with their descriptions, meanings, and interpretations. The list shall be provided in hard copy format (i.e. in printed form) or soft copy format (i.e. in USB drive or as pdf file).	
d.	Preferably, 01 (One) set of Spare Parts Catalogue with Part Numbers and Workshop & Service Manual for all components / systems of the hydraulic systems for logging operation like hydraulic pump(s), hydraulic motor(s), hydraulic valves, winch drum, torque hub of winch drum, spooler arm, electrical / electronic control system of hydraulic operations, control panel circuitry etc. complete with all pneumatic / hydraulic schematics (circuits) showing and labelling all components including hoses / pipes shall be supplied along with each unit. These Spare Parts Catalogue with Part Numbers and Workshop & Service Manual shall be provided by the supplier in any one of the following forms:	

Clause No.	Clause Description	Bidder's Response
	(a) Hard copy format (i.e. in printed form) OR (b) Soft copy format (i.e. in USB drive)	
NOTE	COMMISSIONING OF THE UNIT SHALL NOT BE CONSIDERED AS COMPLETE UNTIL & UNLESS ALL MANUALS / CATALOGUES ARE SUPPLIED AS ABOVE.	
5.0	SPARES & SERVICE:	
5.1	COMMISSIONING SPARES (For Automobile & Hydraulic Section): The Supplier has to supply all the spare parts free of cost, required for initial commissioning of the unit. All the consumables such as, lube oil, gear oil, hydraulic oil etc. except diesel fuel, required for commissioning should also be supplied. Diesel fuel required for commissioning shall be supplied by Oil India Limited (OIL) at OIL's sites.	
5.2	MANDATORY SPARES (For Automobile & Hydraulic Section): All mandatory spare parts for the Automobile & Hydraulic System in specified quantity as mentioned in Table-1 (Clause No. 9.0) shall be supplied along with the supply. Bidders shall include the price of these spares in the cost of the Cased Hole Logging Unit in the priced bid format. Bidder/supplier to note that the spares mentioned in Table-1 (Clause No. 9.0) to be supplied shall be additional to the items fitted in each unit. The bidder shall confirm in the technical bid that all spares as given below will be supplied with the unit. Specific description, Part Number, Make, etc. shall be provided along with the supply in the event of order. COST OF THESE SPARES WILL BE CONSIDERED FOR BID EVALUATION PURPOSE.	

Clause No.	Clause Description	Bidder's Response
	In case any of the spares mentioned in Table-1 (Clause No. 9.0) does not come as per bidder's design and the bidder has not quoted for such spares, the bidder shall clearly indicate the same. However, in case such spares are provided in the unit in future, the same shall be supplied by the supplier (i.e. successful bidder) along with the supply without any extra cost to Oil India Limited (OIL).	
5.3	SPARES & SERVICE (For Automobile & Hydraulic Section):	
a.	The bidder, themselves or through other sources, shall be able to supply all the requisite spares (including bought out items, if any) & consumables and provide the maintenance services for their offered Truck including power take off (PTO) system, hydraulic system, pneumatics system, electrical system etc. in OIL operational area(s) in India for a minimum period of ten (10) years from the certified date of completion of successful field commissioning of the unit. The bidder shall confirm the same in the technical bid.	
b.	The cost of such spares, consumables & maintenance services which may be utilized by Oil India Limited in future shall be extra and SHALL NOT BE considered by the bidder in their quoted prices in this tender.	
c.	Spares, consumables (except diesel fuel) & maintenance services (if any) during commissioning shall be in the scope of the successful bidder (supplier). Diesel fuel required for commissioning shall be supplied by Oil India Limited (OIL) at OIL's sites. Notwithstanding anything mentioned in this clause, the bidder shall abide the Commissioning Clause mentioned elsewhere in the tender.	
d.	Spares & repair services during Warranty period & warranty extension period (if any) for the item(s) under Warranty claim (if any) of the unit(s) shall be in the scope of the successful bidder (supplier). Notwithstanding anything mentioned in this clause, the bidder shall abide the Warranty Clause mentioned elsewhere in the tender.	

Clause No.	Clause Description	Bidder's Response
6.0	Document(s) to be submitted along with the supply of each unit for government Registration etc.: Following documents shall be submitted by the supplier along with the supply as mentioned hereunder:	
a.	Invoice(s) in the name of Oil India Limited, Duliajan, Assam-786602 in original. Notwithstanding any clause mentioned elsewhere in the NIT/tender, the Invoice for each of the complete unit shall be submitted in 02 (two) parts separately as under for registration purpose: (i) Invoice for the complete unit (Truck Chassis with Driver's Cabin, Logging Cabin along with all items/ components / systems fitted permanently on the unit). (ii) Invoice for logging tools, items, spares, accessories etc. supplied separately along with the unit. Note: Truck Chassis Number, Engine Number shall be mentioned in invoice(s) against above Sl. No. (i).	
b.	Sale Certificate (Form-21) in the name of Oil India Limited, Duliajan, Assam-786602 in original, sample format as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules, 1989 of India provided.	
c.	Road-Worthiness Certificate for Compliance to Emission and Noise Standards [Form-22, Form-22A (Part I), Form-22A (Part II)] in the name of Oil India Limited, Duliajan, Assam-786602 in original, sample format as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules, 1989 of India provided.	
d.	Pencil print of Vehicle Identification Number (VIN) i.e. Chassis Number of Truck chassis.	
e.	Certificate for the Truck chassis in original from Truck manufacturer or from Truck manufacturer's dealer: Amongst others, the certificate shall contain following information:	

Clause No.	Clause Description	Bidder's Response
	(i) Make & Model of Truck. (ii) Vehicle Identification Number (VIN) i.e. Chassis Number. (iii) Month & Year of Manufacture of the Truck.	
f.	Necessary certification / documentation from appropriate authority regarding the speed limitation function or SLD (Speed Limiting Device) with speed limit.	
g.	Necessary certification / documentation from appropriate authority regarding Vehicle Tracking System (VTS).	
h.	Type Approval Certificate as per Clause No. 2.15.	
i.	Technical drawing of the complete unit indicating the Centre of Gravity, length, width, height, angle of approach, angle of departure, weight etc.	
j.	Weighbridge Certificate certifying the total weight (mass) of the complete unit.	
7.0	VEHICLE REGISTRATION:	
7.1	VAHAN / HOMOLOGATION / PARIVAHAN PORTAL DATABASE: The supplier (i.e. successful bidder) shall be responsible and ensure that the vehicle details are available in the relevant VAHAN / Homologation / Parivahan portal of Ministry of Road Transport & Highways (MoRTH), Government of India in accordance with Motor Vehicle Act, 1988 & Central Motors Vehicles Rules, 1989 of India prior to delivery of the unit(s) to Oil India Limited. All costs (if any) in this regard shall be borne by the supplier (i.e. successful bidder).	
7.2	TEMPORARY REGISTRATION: Temporary Registration, Motor Vehicle Insurance as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India, if applicable, for unit transportation / manufacturing purpose / delivery purpose etc. shall be under the scope of the supplier (i.e. successful bidder). The supplier (i.e. successful bidder) is to note that, in case Temporary Registration as per Motor Vehicle Act, 1988 &	

Clause No.	Clause Description	Bidder's Response
	Central Motor Vehicle Rules 1989 of India is done in India, the Temporary Registration shall be done in the name of Oil India Limited, Duliajan, Assam- 786602 (India). The cost of Temporary Registration, Motor Vehicle Insurance shall be borne by the supplier (i.e. successful bidder).	
7.3	PERMANENT REGISTRATION: On receipt of the vehicle(s) and documents required for permanent registration, Oil India Limited (OIL) shall apply for permanent registration of the vehicle(s) at the office of the local Government District Transport Office (DTO) as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India. Cost of permanent registration shall be borne by Oil India Limited.	
7.4	HIGH SECURITY REGISTRATION PLATE (HSRP): On receipt of the government Registration Number, Oil India Limited (OIL) shall inform the Registration Number to the supplier (i.e. successful bidder). The supplier (i.e. successful bidder) shall supply the High Security Registration Plate (HSRP) through the Original Equipment Manufacturers of motor vehicle/ dealer / any one of the agencies authorised by the Government of India / Assam to issue the High Security Registration Plate (HSRP) enabling the DTO to issue permanent Registration Certificate for the vehicle(s) as required for road drive of the vehicle. The cost of High Security Registration Plate (HSRP) shall be borne by the supplier (i.e. successful bidder).	
7.5	<u>Note:</u> Bidder / supplier shall also ensure adherence to any subsequent revisions to the referred requirements that may be issued in future by Ministry of Road Transport & Highways (MoRTH), Government of India.	
8.0	BID SUBMISSION & DOCUMENTATIONS: Bidders should submit their bids in the above tabular form mentioning their offered specification, Make, Model, necessary data, submitted / not submitted / complied / not complied etc. as applicable to all the NIT terms and conditions including submitting the documents, leaflets as	

Clause No.	Clause Description	Bidder's Response
	specified. Other details, if any, the bidder may mention the same by adding additional row(s) / separate sheet as the case may be. Bidder's response to all NIT stipulations should clearly be defined maintaining the same sequence as in the NIT. Bidder shall furnish specific details / specifications of all major components, systems with Make & Model etc. Submission of technical leaflet / catalogue alone is not sufficient. General Response like- 'As per NIT Specifications / Technical Leaflet', 'Noted' etc. or in any similar fashion is not acceptable. Quoting only the NIT stipulation without any confirmation of acceptance of the same and/or without any confirmation of offering the same is also not acceptable.	
8.1	Following documents shall be submitted along with technical bid for evaluation –	
a.	Technical leaflets with detailed specifications, Make & Model of Truck chassis, engine, transmission, Power Take Off (PTOs), transfer case (if any), axle, suspension, steering, brake, etc.	
b.	GA (General Arrangement) drawing of the offered complete unit (i.e. Truck with driver's cabin, logging cabin and all other items of the Cased Hole Logging Unit etc.) illustrating major dimensions of the complete unit and indicating the position of all major components & their mounting on the vehicle.	
c.	Mechanical power flow block diagram from Engine to Axles / Wheels for Road drive indicating all major components like Engine, Transmission, Driveline, Axles, Wheels etc.	
d.	Mechanical power flow block diagram from Engine to Drum for Logging Unit operation, etc. indicating all major components like Engine, Transmission, Transfer case (if any), PTO(s), Hydraulic Pump(s), Hydraulic Motor(s), Torque Hub, Drum etc.	

Clause No.	Clause Description	Bidder's Response
e.	Technical leaflets with detailed specification, Make & Model of all hydraulic pump(s), hydraulic motors, torque hub of winch drum, brake mechanism of winch drum etc.	
f.	Specific description, Quantity etc. of each and every spares (for bid evaluation) as detailed in the Mandatory Spares List provided in Clause 5.2 above & Table-1 (Clause No. 9.0) below without prices.	
g.	Any other document as applicable against clauses of this tender document.	

**9.0 TABLE – 1: MANDATORY SPARES
AUTOMOBILE & HYDRAULIC SPARES LIST:**

Total No. of Cased Hole Logging Units: 01 No.

Note to bidder:

The bidder shall provide their response in “Bidder’s Remark” column and mention “Quoted in Priced Bid” / “Not available as per design” against each individual row.

Sl. No.	Item Description	Quantity for 01 No. unit	Bidder’s Remark
A	B	C	D
A.	ENGINE:		
1	Fuel Filter	05 Nos.	
2	Engine Oil Filter	05 Nos.	
3	Air Filter Element	05 Nos.	
4	Fan Belt	04 Nos.	
5	Radiator Hose Set (Each set shall comprise of all upper & lower hoses)	02 Sets.	
6	Engine Mounting Set [Each set shall comprise of all the mountings (one each)]	01 Set.	
7	Radiator Assembly (Each Radiator Assembly shall consist of at least Top Tank, Radiator Core, Bottom Tank)	01 No.	
8	Water (Engine Coolant) Pump Assembly	01 No.	
9	Engine Oil Cooler Assembly	01 No.	
B.	ENGINE EXHAUST AFTERTREATMENT SYSTEM		
1	Diesel Exhaust Fluid (DEF) Filter	08 Nos.	
2	Diesel Particulate Filter	08 Nos.	
3	Diesel Exhaust Fluid (DEF) Tank Strainer (if available as separate replaceable component)	04 Nos.	
4	Set of Exhaust Aftertreatment sensors [Each set shall comprise of all the different sensors (one each) of the engine exhaust aftertreatment system actually fitted in the Truck]	02 Sets.	
C.	TRANSMISSION:		
C1.	IN CASE OF AUTOMATIC TRANSMISSION:		
1	Transmission Filter (if any)	04 Nos.	
2	Transmission Mounting Set [Each set shall comprise of all the mountings (one each)]	01 Set.	
3	Gear Shifter Assembly (inside driver’s Cabin)	01 No.	
C2.	IN CASE OF AUTOMATED TRANSMISSION:		
1	Transmission Filter (if any)	04 Nos.	
2	Transmission Mounting Set	01 Set.	

Sl. No.	Item Description	Quantity for 01 No. unit	Bidder's Remark
A	B	C	D
	[Each set shall comprise of all the mountings (one each)]		
3	Gear Shifter Assembly (inside driver's Cabin)	01 No.	
4	Clutch Disc Assembly (if any)	01 No.	
5	Pressure Plate Assembly (if any)	01 No.	
6	Release Bearing (if any)	01 No.	
7	Release Bearing Fork (if any)	01 No.	
D.	POWER TAKE OFF (PTO):		
1	Oil Filter (if any)	04 Nos.	
2	Mounting Set [Each set shall comprise of all the mountings (one each)]	02 Nos.	
3	Oil Seal Set [Each Set shall comprise of all seals (one each)]	02 Sets.	
E.	FRONT AXLE:		
1	Wheel Stud with Nuts (Right Side) (Each set shall comprise of all the studs & nuts for one wheel)	02 Sets.	
2	Wheel Stud with Nuts (Left Side) (Each set shall comprise of all the studs & nuts for one wheel)	02 Sets.	
3	Wheel Hub Bearing (Right Side)	04 Nos.	
4	Wheel Hub Bearing (Left Side)	04 Nos.	
5	Wheel Hub Oil Seal (Right Side)	04 Nos.	
6	Wheel Hub Oil Seal (Left Side)	04 Nos.	
7	Wheel Rim (Right Side)	02 Nos.	
8	Wheel Rim (Left Side)	02 Nos.	
9a	In case of Tube type Tyres: Tyre with Tube	02 Nos.	
9b	In case of Tubeless type Tyres: Tubeless Tyre	02 Nos.	
F.	REAR AXLE:		
1	Wheel Stud with Nuts (Right Side) (Each set shall comprise of all the studs & nuts for one wheel)	02 Sets.	
2	Wheel Stud with Nuts (Left Side) (Each set shall comprise of all the studs & nuts for one wheel)	02 Sets.	
3	Axle Stud with Nuts (Right Side) (Each set shall comprise of all the studs & nuts for one wheel)	02 Sets.	
4	Axle Stud with Nuts (Left Side)	02 Sets.	

Sl. No.	Item Description	Quantity for 01 No. unit	Bidder's Remark
A	B	C	D
	(Each set shall comprise of all the studs & nuts for one wheel)		
5	Wheel Hub Oil Seal (Right Side)	08 Nos.	
6	Wheel Hub Oil Seal (Left Side)	08 Nos.	
7	Wheel Hub Bearing (Right Side)	08 Nos.	
8	Wheel Hub Bearing (Left Side)	08 Nos.	
9	Wheel Rim (Right Side)	08 Nos.	
10	Wheel Rim (Left Side)	08 Nos.	
11a	In case of Tube type Tyres: Tyre with Tube	04 Nos.	
11b	In case of Tubeless type Tyres: Tubeless Tyre	04 Nos.	
12	Differential Oil Seal Set [Each Set shall comprise of all seals (one each) of different differentials]	04 Sets.	
13	Differential Filter (if any)	04 Nos.	
G.	DRIVELINE (PROPELLER SHAFT):		
1	UJ Cross Assembly Set (Each set shall comprise all the different UJ crosses in complete required for the drivelines)	02 Sets.	
2	Centre Bearing with Rubber Cushion Assembly (if any)	02 Nos.	
H.	STEERING:		
1	Steering Oil Filter (if any)	02 Nos.	
2	Steering Pump Assembly	01 No.	
I.	BRAKE & PNEUMATICS:		
1	Foot Brake Valve- Assembly	01 No.	
2	Brake Servo Assembly - Front Wheel	04 Nos.	
3	Brake Servo Assembly - Rear Wheel	04 Nos.	
4a	Brake Shoe Assembly - Front Wheel (in case of Drum Brakes)	08 Nos.	
4b	Brake Calliper Assembly - Front Wheel (in case of Disc Brakes)	08 Nos.	
5a	Brake Shoe Assembly - Rear Wheel (in case of Drum Brakes)	12 Nos.	
5b	Brake Calliper Assembly - Rear Wheel (in case of Disc Brakes)	12 Nos.	
6	Pneumatic Circuit System Protection Valve	02 Nos.	
J.	ELECTRICAL:		
1	Engine Self Starter Assembly	01 No.	
2	Alternator Assembly	01 No.	
3	Wiper Motor Assembly	01 No.	
4	Wiper Blade with Arm (Left)	01 Set.	
5	Wiper Blade with Arm (Right)	01 Set.	

Sl. No.	Item Description	Quantity for 01 No. unit	Bidder's Remark
A	B	C	D
6	Head Lamp Assembly (Left)	01 No.	
7	Head Lamp Assembly (Right)	01 No.	
K.	SUSPENSION:		
1	Leaf Spring Assembly (Front) (Set shall comprise of all the different leaf springs forming the suspension)	01 Set.	
2	Leaf Spring Assembly (Rear) (If any, in case of Bogie Suspension) (Set shall comprise of all the different leaf springs forming the suspension)	02 Sets.	
3	Rear Air Suspension Bellow (If any, in case of Air Suspension)	08 Nos.	
L.	HYDRAULIC SYSTEM & ITS COMPONENTS:		
1	Torque hub assembly for winch operation	01 No.	
2	Winch operation Torque hub repair Kit	02 Full Sets.	
3	Complete Set of Hydraulic Pump Assemblies (One set shall comprise of all hydraulic pump assemblies, or any combination thereof, as actually fitted in the unit and intended for the operation of winch drum and alternator drive)	01 Set.	
4	Hydraulic motor assembly for winch operation	01 No.	
5	Hydraulic motor assembly for alternator drive	01 No.	
6	Hydraulic Filters	10 Nos.	
7	Repair Seal Kit for Hydraulic Pump	02 Full Sets for each pump	
8	Repair Seal Kit for Hydraulic Motor	02 Full Sets for each motor	
9	Hydraulic Hose Set [One set shall comprise of all inlet hose(s) and outlet hose(s) of all hydraulic pump assemblies, or any combination thereof, as actually fitted in the unit and intended for the operation of winch drum and alternator drive)]	02 Sets	

Note to Bidder:

1. All spares in specified quantity as mentioned in **Table-1 (Clause No. 9.0)** above shall be supplied along with the supply of the units.
2. Specific description, Quantity etc. of each item shall clearly be indicated in the technical bid. Make, Part Nos. etc. of each item shall be submitted by the supplier along with the supply.

3. In case any of the spares mentioned in **Table-1 (Clause No. 9.0)** as above does not come as per bidder's design and the bidder has not quoted for such spares, the bidder shall clearly indicate the same as **“Not available as per design” in the technical bid**. However, in case such spares are provided in the unit in future, the same shall be supplied by the bidder / supplier along with the supply without any extra cost to Oil India Limited (OIL).

4. In case the multiple quantity of an item named above is used in the Logging unit and the specifications of such item does not match with each other, then the supplier shall supply such item in a mixed manner comprising all the variants used in the Logging unit. The supplier shall first try to supply all the variants of such item preferably in equal / proportional quantity of each of the variant used in the Logging unit as far as possible. However, the total quantity of such item to be supplied must not be less than the quantity mentioned in above.

5. In case the specifications of the item named above used in left & right side of the Axle System / Suspension System / Brake System of the Logging unit does not match with each other of that particular system, the supplier shall first try to supply all the variants of such item preferably in equal / proportional quantity of each of the variant used in the Logging unit as far as possible. However, the total quantity of such item to be supplied must not be less than the quantity mentioned in above.

10.0 SAMPLE FORMATS: (Reference Clause No. 6.0 / b & 6.0 / c)

10.1 SAMPLE COPY OF FORM 21 (Reference Clause No. 6.0 / b)

Following is a sample copy similar to **FORM 21** of Central Motor Vehicle Rules, 1989 of India only. The certificate shall contain following minimum information –

FORM 21

[See Rules 47 (a) and (d)]

SALE CERTIFICATE

(To be issued by manufacturer ~~or dealer or registered E-rickshaw or E-cart Association (in case of E-rickshaw or E-cart) or officer of defence department (in case of military auctioned vehicles)~~ for presentation along with the application for registration of a motor vehicle)

Certified that (Brand name of the vehicle) has been delivered by us to **OIL INDIA LIMITED** against Purchase Order No.

Name of the buyer	OIL INDIA LIMITED
Son /wife / daughter	.....
Address (Permanent)	.....
(Temporary)	.....

The vehicle is held under agreement of hire-purchase / lease / hypothecation with

The details of the vehicle are given below:

- | | | |
|-----|--|-------|
| 1. | Class of Vehicle | ..... |
| 2. | Maker's name | ..... |
| 3. | Chassis No. | ..... |
| 4. | Engine number or motor number in case of Battery Operated vehicles | ..... |
| 5. | Engine or Motor Power | ..... |
| 6. | Cubic capacity | ..... |
| 7. | Fuel used | ..... |
| 8. | Number of cylinders | ..... |
| 9. | Month and year of manufacture | ..... |
| 10. | Seating capacity (including driver) | ..... |
| 11. | Unladen Weight | ..... |
| 12. | Maximum axle weight and number and description of tyres (in case of transport vehicles) | ..... |
| a. | Front axle | ..... |
| b. | Rear axle | ..... |
| c. | Any other axle | ..... |
| d. | Tandem axle | ..... |

- 13. Colour
- 14. Gross Vehicle Weight Rating
- 15. Type of body
- 16. Wheelbase

(Signature of the manufacturer ~~or dealer~~
~~or officer of Defence Department or~~
~~registered E-rickshaw or E-cart~~
~~Association~~)

*Strike out whichever is inapplicable.

10.2 SAMPLE COPY OF FORM 22 (Reference Clause No. 6.0 / c):

Following is a sample copy similar to **FORM 22** of Central Motor Vehicle Rules, 1989 of India only. The certificate to be issued by supplier shall contain following minimum information. –

FORM-22
[See rules 47(1) (g)]
ROAD-WORTHINESS CERTIFICATE FOR
COMPLIANCE TO EMISSION AND NOISE STANDARDS
(To be issued by the manufacturer along with the vehicle)

It is certified that the following vehicle complies with the provisions of the “Motor Vehicle Act, 1988 and rules made thereunder” or “international standard namely EEC / ECE Regulations”:

1. Model / Commercial Name of the vehicle:
2. Chassis Number:
[Example: Vehicle Identification Number (VIN)]
3. Engine or Motor Number:
4. Applicable Emission Norms:
5. Emission, Sound Level for Horn and Pass by noise values of the above vehicle model, obtained during Type Approval Testing as per “Central Motor Vehicles Rules, 1989” or “ECE / EEC Regulations” are given below:
 - i. Type Approval Certificate No.:
 - ii. Type of Fuel:
 - iii. Emission values for vehicle:

TABLE
Positive Ignition Engine or Compression Ignition Engine Vehicle

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Value (upto 3 Decimal places)
(1)	(2)	(3)	(4)
1.	Carbon Monoxide (CO)	mg/km or mg/kWh or g/kWh	
2.	Hydrocarbon (THC/HC)	mg/km or mg/kWh or g/kWh	
3.	Non-Methane Hydrocarbon (NMHC)	mg/km or mg/kWh or g/kWh	
4.	Oxides of Nitrogen (NOx)	mg/km or mg/kWh or g/kWh	
5a.	HC+NOx	mg/km or mg/kWh or g/kWh	
5b.	THC+NOx	mg/km or mg/kWh or g/kWh	
6.	Methane (CH ₄)	mg/kWh	
7.	Ammonia (NH ₃)	PPM	
8.	Mass of Particulate Matter (PM)	mg/km or mg/kWh or g/kWh	
9.	Number of Particles (PN)	Numbers/km or Numbers/kWh	

- iv. Noise level (as applicable):

- a. Horn (for all vehicles other than agricultural tractors and construction equipment vehicles) as installed on the vehicle: dB (A); (upto 1 decimal place)
- b. Pass by or Bystander's position: dB(A)
- c. ~~Driver perceived or Operator's ear level (as applicable for agricultural tractors and construction equipment vehicles: dB (A))~~

(Facsimile Signature of Manufacturer)

Note 1: This Form shall be issued with signature of the manufacturer duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal, as applicable.

Note 2: In case of multiple combinations, values pertaining to any one test result in the test report to be provided. For V2, V3 cases- average value of the test result in the test report to be provided.

Note 3: While printing Form 22, the relevant pollutants in the table as applicable for the subject vehicles may only be listed.

10.3. SAMPLE COPY OF FORM- 22A (Reference Clause No. 6.0 / c):

Following is a sample copy similar to **FORM 22-A (Part – I) & FORM 22-A (Part – II)** of Central Motor Vehicle Rules, 1989 of India only. The certificate shall contain following minimum information. –

FORM 22-A
[See Rules 47 (g), 115, 124(2), 126-A and 127]
INITIAL CERTIFICATE OF COMPLIANCE WITH POLLUTION STANDARDS, SAFETY STANDARDS
OF COMPONENTS AND ROAD WORTHINESS
(FOR VEHICLES WHERE BODY IS FABRICATED SEPARATELY)
PART – I
(TO BE ISSUED BY THE MANUFACTURER)

Certified that the following vehicle complies with the provisions of the “Motor Vehicles Act, 1988 and the rules made thereunder” or “international standard namely EEC / ECE Regulations”, including the following mass emission norms:

1. Brand name of the vehicle:
2. Chassis number:
3. Engine number / ~~Motor number:~~
(~~In case of battery operated vehicles~~)
4. Emission norms

(Signature of Chassis Manufacturer)

Form 22-A (Part I) shall be issued with the signature of the manufacturer duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal of the manufacturer.

FORM 22-A
[See Rules 47 (g), 115, 124(2), 126-A and 127]
INITIAL CERTIFICATE OF COMPLIANCE WITH POLLUTION STANDARDS, SAFETY STANDARDS
OF COMPONENTS AND ROAD WORTHINESS
(FOR VEHICLES WHERE BODY IS FABRICATED SEPARATELY)
PART – II
(TO BE ISSUED BY THE BODY BUILDER)

Certified that body of the following vehicle has been fabricated by us and the same complies with the provisions of Motor Vehicles Act, 1988 and Rules made there under or international standard namely EEC / ECE Regulations:

1. Brand name of the vehicle:
2. Chassis number:
3. Engine number / ~~Motor number:~~

~~(In case of battery operated
vehicles)~~

4. ~~Bus Body Builder Accreditation~~
~~Certificate Number~~

(Signature of Body Builder)

Form 22-A Part II shall be issued with the signature of the body builder duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal of the body builder.

11.0 Ministry of Road Transport & Highways' (MoRTH), Government of India's Circular No. RT11028/11/2017-MVL containing the gist of Notification No. S.O. 3467 (E) dated 16.07.2018 as amended by Notification No. 3881 (E) dated 06.08.2018.

(Reference Clause No. 2.7.)

No. RT11028/11/2017-MVL Government of India Ministry of Road Transport & Highways (Transport Division) Transport Bhawan, 1, Parliament Street, New Delhi - 110001																																						
The gist of the notification dated 16 th July, 2018, as amended by notification dated 6 th August, 2018																																						
The Ministry of Road Transport and Highways issued S.O. 3467 (E) dated 16 th July 2018 in supersession of the earlier notification of the Government of India in the erstwhile Ministry of Surface Transport (Transport Wing), S.O. 728 (E), dated the 18 th October, 1996, notifying the maximum safe axle weight of each axle type in relation to the transport vehicles (other than motor cabs), having regard to the size, nature and number of tyres. The Ministry further issued a notification S.O. 3881 (E) dated 6 th August 2018 making some amendments in the notification issued on 16 th of July 2018. Briefly the resultant effect of the two amendments, dated 16 th July 2018 and 6 th August 2018 is as under: -																																						
<table><tr><th colspan="3">Maximum Safe Axle Weight</th></tr><tr><th>Sr. No.</th><th>Axle Type</th><th>Maximum Safe Axle Weight</th></tr><tr><td>1.</td><td>Single Axle</td><td></td></tr><tr><td>1.1</td><td>Single Axle with single Tyre</td><td>3.0 tonnes</td></tr><tr><td>1.2</td><td>Single Axle with two Tyres</td><td>7.0 tonnes**</td></tr><tr><td>1.3</td><td>Single axle with four Tyres</td><td>11.5* tonnes</td></tr><tr><td>2.</td><td>Tandem axles (Two axles) (where the distance between two axles is less than 1.8 m)</td><td></td></tr><tr><td>2.1</td><td>Tandem axle for rigid vehicles, trailers and semi-trailers</td><td>21 tonnes*</td></tr><tr><td>2.2</td><td>Tandem axle for Puller tractors for hydraulic and pneumatic trailers</td><td>28.5 tonnes</td></tr><tr><td>3.</td><td>Tri - axles (Three axles) (where the distance between outer axles is less than 3 m)</td><td></td></tr><tr><td>3.1</td><td>Tri-axle for rigid vehicles, trailers and semi-trailers:</td><td>27 tonnes*</td></tr><tr><td>4.</td><td>Axle Row (two axles with four tyres each) in Modular Hydraulic Trailers (9 tonnes load shall be permissible for single axle)</td><td>18 tonnes</td></tr></table>			Maximum Safe Axle Weight			Sr. No.	Axle Type	Maximum Safe Axle Weight	1.	Single Axle		1.1	Single Axle with single Tyre	3.0 tonnes	1.2	Single Axle with two Tyres	7.0 tonnes**	1.3	Single axle with four Tyres	11.5* tonnes	2.	Tandem axles (Two axles) (where the distance between two axles is less than 1.8 m)		2.1	Tandem axle for rigid vehicles, trailers and semi-trailers	21 tonnes*	2.2	Tandem axle for Puller tractors for hydraulic and pneumatic trailers	28.5 tonnes	3.	Tri - axles (Three axles) (where the distance between outer axles is less than 3 m)		3.1	Tri-axle for rigid vehicles, trailers and semi-trailers:	27 tonnes*	4.	Axle Row (two axles with four tyres each) in Modular Hydraulic Trailers (9 tonnes load shall be permissible for single axle)	18 tonnes
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2. The gross vehicle weight (GVW) shall not exceed the total permissible safe axle weight as above and in no case shall exceed																																						
(i) 49 tonnes in case of rigid vehicles and																																						
(ii) 55 tonnes in case of semi articulated trailers and truck-trailers, except modular hydraulic trailers.																																						
3. Modular hydraulic trailers can carry goods of indivisible nature of any load subject to the regulatory approvals as may be required.																																						
**4. The above maximum safe axle weight shall be considered for revising the Gross Vehicle Weight of the vehicles, subject to overall limits specified in paragraph 2 for the existing vehicle models, that are manufactured in accordance with the type approval certificate granted prior to 16 th July, 2018.																																						
Explanation- For the purposes of this notification, tolerance up to five percent in the gross vehicle weight shall be allowed for the purpose of compliance to sub- section (3) of Section 113 of the Motor Vehicle Act, 1988(59 of 1988).																																						
** As modified by S.O. 3881 (E) dt. 6 th August, 2018.																																						

*******END OF SECTION – A*******

SECTION – B:: LOGGING SECTION

The logging unit shall have at a minimum, the following features in addition to all standard accessories and fittings.

The Cased Hole Logging Unit shall be equipped with a split drum capable of accommodating both 5/16-inch and 7/32-inch wireline logging cables. The unit shall comprise a logging cabin fitted with a surface acquisition system loaded with the latest version of the required software to perform wireline logging operations, well completion, and perforation services up to a minimum depth of 6,500 meters in vertical, highly deviated, and horizontal wells.

1.0 ELECTRICAL SYSTEM / EQUIPMENT

- i. Adequate, stable electrical power generated by the truck's Hydraulic alternator (Marathon generator Magna Plus Model: 283PDL1766 or equivalent brand/model having minimum 20 kw capacity) for power requirement of the surface system, downhole tools, air-conditioners & all other electrical accessories in the logging unit. The hydraulic alternator of the truck is to be driven by a Power Take-off unit coupled to the truck transmission system.
- ii. The Alternator output voltage should be regulated within +/-5 volt between no load and full load voltage.
- iii. Must be equipped with voltage and frequency monitor & control, over/under voltage and frequency protection.
- iv. The power generator must have automatic safety shut-down features.
- v. The electrical system must have a Power Distribution board inside logging cabin, with circuit breakers, power plant controls, and frequency, voltage and current meters.
- vi. A suitable power intake point is to be provided to feed power into the unit from external source. Flexible cable (**Approx. 20 M in length**) with suitable plugs for this purpose should be provided.
- vii. Electrical power with universal socket outlet for internal accessories is to be provided.
- viii. Exterior power outlets should be properly covered.
- ix. Color coded / Function coded truck electrical wiring and easily accessible for maintenance and service purposes must be provided. Entire wiring should be well documented.

- x. A back up electrical power source of **minimum 8 KW** should be provided. Following backup power system should be provided with manual switchover connection :

One Diesel Generator, low noise/silent (Preferably Cummins Onan **Model 8HDKAU-41934R having 8 KW capacity**) mounted on the unit in addition to the main hydraulic alternator

- xi. There should be provision of toggle switch to switch between the electrical power sources (Hydraulic Alternator and Backup diesel Generator) instead of manually swapping out power cables.
- xii. There should be provision of starting the backup diesel generator remotely from the logging cabin.

2.0 LOGGING CABIN / OPERATOR'S COMPARTMENT

- i. The logging cabin must have a dual sliding window with toughened, shatterproof safety, antiglare transparent glass in front of the operator console area to provide unrestricted view of operations.

Roll up tinted window shades/blinds is to be provided to minimize sunlight or external light glare through the windows.
- ii. Cabin roof should be suitably designed to drain out the rain water.
- iii. Logging cabin should be fitted with at least three (03) numbers roof mounted air conditioners, each of **minimum 13500 btu**.
- iv. Proper metallic cover should be provided to protect the air conditioners from external damage.
- v. Temperature and humidity indicator are to be provided inside the cabin.
- vi. Cabin pressurization system should be provided to pump filtered fresh air in to the logging cabin for preventing dust entry.
- vii. Three nos. of Swivel type chairs should be provided. One for the winch operator (movable and height adjustable) and two with rollers for the logging engineer. Additional sitting arrangement for at least two persons should be provided inside the cabin.
- viii. Working table fitted with monitors must be having ample space for seating of two engineers side by side.
- ix. At least four nos. of drawers with locking arrangement to store manuals, multi meters and other materials.

- x. Slip proof metallic floor with suitable washable carpet should be provided.

Note: Aluminum floor, with a wood sub floor, with non-slip rubber coating on top of it, is also acceptable.

- xi. Logging Engineer's console/ computer system should be located at 90 degree to the operator's winch panel.
- xii. A fire extinguisher at readily accessible location should be provided.

A first aid kit at readily accessible location should be provided.

- xiii. The operator's console should include line load display, electronic depth display, engine RPM meter, oil pressure meter, air pressure meter and hydraulic oil temperature meter and meters for any other required parameters related to winch and engine etc.
- xiv. The logging cabin should have provision of displaying various parameters such as generator voltage, frequency, power drawn from internal and external source etc.
- xv. 110 V / 220 V AC along with 12V/24V DC interior lights are to be provided.
- xvi. Apart from normal power outlets (110Vac, 50/60 Hz) provided inside the logging cabin minimum one numbers of power outlets (220Vac, 50/60 Hz, 5 Amps rated) to be given in the logging cabin with multi socket that accepts British plugs in addition to Euro, NEMA American and Australian plugs with ON/OFF switch.
- xvii. Suitable LED lights must to be installed at the drum area for proper illumination. Proper LED rig-lights (AC) of minimum 5000 Lumen each to be installed to illuminate the working area. Additionally, LED rig-lights (DC) of sufficient power should be installed immediately below the rear corner rig-lights operated directly from the truck battery. Both the lights at the rear exterior corners must have suitable metallic cover at sides to protect against impact.
- xviii. The rear corner LED rig lights should be mounted on a motorized platform controlled remotely to focus the light at desired area of working.
- xix. A dedicated LED light to be provided, positioned from the operator's viewpoint and focused on the winch drum, to ensure clear visibility of the cable winding during night operations.
- xx. Safety warning lights (**red in log mode / green in safe mode**) should be installed in the backside of the logging unit which should be visible

from the catwalk while arming the perforating gun.

- xxi. The logging unit's steel/aluminum welded construction materials should be properly painted to resist corrosion.
- xxii. The Panel Rack should be placed in such a manner that the electrical wires connected to the rear side of the panels are easily accessible for connection purposes. A side window to be provided for easy access to the panels' rear side connections.
- xxiii. Gas detection with warning system (preferably buzzer) capable of detecting at least Methane, H₂S and CO shall be provided inside the logging engineer's cabin/operators compartment. Suitable adapters/fixtures for calibration of the gas detector must be provided.
- xxiv. Non-sparking electrical switches shall be provided inside the logging engineers cabin/ operators compartment.
- xxv. Wall mounted white board should be provided with magnetic duster in the engineers cabin.
- xxvi. Apart from the things mentioned above, bidder may provide any other standard fittings inside the logging cabin.

i.

NOTE: The Logging cabin must be designed to provide ample working and seating space.

3.0 HYDRAULICS WINCH SYSTEM

In addition to the standard features, the logging unit should have the following fittings/features as specified below:

- i. The unit should be equipped with Split Drums (with antirust / non-corrosive coating) to accommodate **5.55625 mm (7/32") OD and of 7.9375 mm (5/16") OD** single conductor wireline non-spliced cables having **at least 7000 meters in length**.
- ii. The winch drum powered by the unit's hydraulic system should have speed ranges from 0.3 m/min or less to 150 m/min or more with fine speed control even at maximum load condition.
- iii. A certificate should be provided confirming micro fractures / cracks free base mounting frame of the cable drums.

- iv. Operation of the winch drum should be controlled by an electronic proportional joystick control mounted on the operator's control panel. The joystick should get locked when brought to neutral position.
- v. Electrically operated pneumatic or hydraulic failsafe brake for the winch to be provided in the logging cabin.
- vi. The logging unit winch drum must be capable to provide pull up to **8,500 lbs** during stuck conditions, the hydraulic system rating of the drums winch must be sufficient to withstand these over-pulls safely (well within system rating of the logging unit).

4.0 WIRELINE LOGGING CABLE

4.1 The split drum in the logging unit should be installed with wireline logging cables having following specification

Cable O.D.	Breaking strength	Cable Make	Cable Length
7.9375 mm (5/16")	Minimum 11,000 Lbs	Camesa or Rochester or Bidder's own make	Minimum 7000 m
5.556 mm (7/32")	Minimum 5,400 Lbs	Camesa or Rochester or Bidder's own make	Minimum 7000 m

Both the cables should be contiguous, non-spliced, mono-conductor and rated for minimum 204.4 °C (400 °F) temperature and minimum insulation resistance 460 MΩ/km @ 500 VDC.

4.2 Spare wireline cable: One (01) no. of 7/32 inch and One (01) no. of 5/16 inch wireline cable, same as fitted in the unit, need to be provided.

Note: Each spare cable reel must have at least 7000 meters of cable and to be provided on standard metallic drum. Wooden drum is not accepted.

5.0 OVERHEAD SPOOLING AND DEPTH/TENSION MEASURING SYSTEM

- i. The logging unit should have overhead cable spooling systems for the

installed mono conductor cable.

- ii. The overhead Spooling system must be strong, lightweight with height adjustment and side to side steering.
- iii. Metric depth measuring system (Make: Benchmark, Model: AM5K) with depth and tension measuring panel needs to be provided for depth measurement/recording having dual electronic encoders, a tension device (Load Pin) and independent mechanical/electronic backup encoder. If separate accessories are required for using both the cables, that also needs to be provided. The backup depth display from the mechanical/electronic encoder is to be made available near the winch operator panel.
- iv. Line weight measuring system with a weight indicator to measure line tension of at least 15,000 lbs. to be provided. It should have digital display for total and differential load. Weight measurements should have audio and screen alarms at operator's panel for increase/decrease of line load. The line weight measuring system should have provision for both load pin and rig floor load cell connected with the sheave wheel.

6.0 ADDITIONAL LOGGING UNIT FEATURES

- i. Built-in line oiler system for lubricating the cables with the operating switches on the winch operator's control panel.
- ii. Grounding reel fitted with at least **50 meters** cable with clamps for grounding during perforations and other allied wire line operations.
- iii. Reels necessary for intercom, top load cell etc., of **at least 70m** length to be provided.
- iv. A complete two-way, license-free wireless communication system (Range: 1 Km, Frequency Band: 2.4 GHz ISM band or 865–867 MHz SRD band), compliant with applicable Wireless Planning and Coordination (WPC), Department of Telecommunications (DoT), Government of India regulations, shall be provided for reliable communication between the engineer's cabin and the derrick floor.
- v. Tool racks with suitable, independently working air bags for transportation of downhole tools must be provided. The air bags must be easy to access for replacement.
- vi. Tool storage area installed under the floor of the drum area for the longest tool must be guided with roller support throughout the rack length and fitted with air bags for transportation.

- vii. The winch drums must be fitted with slip rings having ample protection from moisture, dust and rain. Both slips rings should be easily accessible for repair and maintenance work.

Note: A single composite slip ring connected to both the cable drums is also acceptable.

- viii. A Switch must be provided to conveniently switch between both the cables inside the logging cabin
- ix. Rear bumper should be fitted with a working vise and light weight folding step.
- x. All the electrical wires running in the winch / draw works compartment must be concealed/in a conduit.
- xi. Body to be painted to OIL's specification (with OIL logo).
Logo / specification shall be provided by OIL after placement of order.
- xii. Safety / Warning Signs (pertaining to radioactive and explosive jobs) must be provided.

7.0 STORAGE REQUIREMENT WITHIN THE LOGGING UNIT

- i. Two separate compartments, one for carrying Explosive Shaped Charges and the other for carrying Electric Detonators should be provided. These two compartments should be separated by a distance of minimum 1.5 meters as per Indian Explosive Rules. The inside of these compartments should be paneled with good quality non-sparking material. These two individual compartments should be minimum 1.15 meters away from the electrical power sources and fuel tanks mounted in the Logging Truck. The minimum internal volume of the compartments carrying explosives should be as follows:

Compartments	Length (meters)	Breadth(meters)	Height(meters)
For charges	1	0.6	0.6
For Detonators	0.3	0.2	0.2

- ii. Enough storage space should be provided to carry at least 6 nos. of TAG guns. The length of these racks should be at least 6 meters each and should accommodate 4-inch OD gun/tool. Additional racks should be provided to transport at least 4 nos. (minimum 3 meters in length) of logging tools with diameter ranging from 1 11/16" to 4". In addition to this, 2 small (at least 1.5 meters in length) racks should be

provided for carrying CCL, MPD and other short length tools.

- iii. Fixed positions should be provided for transportation of one pair of sheave wheels which is required for logging operation.
- iv. Separate compartments to be provided for carrying hand tools / wrenches, rig up accessories and other logging related accessories. All compartments should have heavy duty locking / latching arrangement.
- v. A suitable mounting arrangement for the high-pressure grease control head to be provided near the spooler (cable drum area of the logging unit).

Note: please refer to the pressure control equipment section to get information about high-pressure grease control head.

- vi. The drum area flooring will be of aluminum tread plate material.
- vii. A roll up weather resistant cover must be installed over the drum area opening.

8.0 SURFACE LOGGING SYSTEM

8.1 The log data acquisition system should be rack mounted PC based system, integrated collection of state-of-the-art hardware & software. It must be field proven, latest version logging system, capable of performing the following logging & completion operations:

- i. All types of Perforations and Plug / Packer setting through wireline pressure setting tool.
- ii. Recording of shooting CCL and shooting Gamma Ray Log.
- iii. Recording of Gamma ray/ Neutron/ Casing Collar Locator combination logs.

8.2 It should have a Shooting Panel with following features:

- i. A key type safety switch.
- ii. It should be designed as per latest API recommended practices.
- iii. It should be able to supply “+”ve and “-”ve shooting voltage for all types of shooting operations.

- 8.3 LED displays should be used for depth and line speed monitoring for winch operator.
- 8.4 The logging system should have mono-conductor out connection point to facilitate logging with the use of external panels. It is preferred that the connection point is an UHF female socket (SO-239) connector.

9.0 LOGGING SYSTEM COMPUTER HARDWARE

Both the logging units should have state-of-the-art PC based logging system. In addition to other standard fittings / accessories which are mounted in the logging cabin, the system should include at least the following features:

i	RAM	32 GB (minimum) or above
ii	Hard Disk	1 TB PCI SSD (minimum)
iii	Dual display color monitor	Size minimum 23", TFT type 02 Nos.
iv	High Resolution Thermal Graphic Recorder. (Capable of taking Log prints both on paper and film for both roll & fan fold type paper).	1 Numbers
v	Continuous 8.5" color printer to print colored logs	1 Number (quantity)
vi	CD/DVD writer.	1 Number (quantity)
vii	USB port to transfer data	4 (minimum) at the front side of CPU
viii	External Portable USB Hard Drive SSD (min 2 TB)	2 Nos

ix	Wireless Keyboard and Mouse	2 Nos Each
x	System must be having high speed latest CPU and should be supporting Dual display	1 No.
xi	UPS as power back up for system CPU, dual monitor and printer.	1 No.

10.0 LOGGING SYSTEM SOFTWARE

- i. The data acquisition software must be latest version “WARRIOR” based. The system software should be based on latest version of windows-based operating system. License validity for the supplied software should be at least for 15 years.
- ii. Software must be in English language.
- iii. Detailed help on the complete system should be available.
- iv. The Software must be capable of performing well completion and cased hole logging operations.
- v. The System must be able to export/import log data into API standard LAS, LIS and ASCII format.
- vi. Oil India Limited’s logo must be incorporated in all outputs.
- vii. The system software must include real time depth correction capability during logging.
- viii. The system software must display real-time corrected depth and line tension.
- ix. Utilities like splice, merge and edit of logs to be provided.
- x. It should be capable of logging both in meters and feet.
- xi. Virus protection Software must be provided in the system with a license validity of at least 15 years with backup in CD/DVD/Portable Drive.
- xii. Complete image of the system must be provided in CD/DVD/Portable Drive.
- xiii. The bidder should give an undertaking to update the software as and when updates are available for a period of 15 years from the date of commissioning of the unit at no cost to OIL.
- xiv. Installer files of all software used in the system must be

provided on CD / DVD's/Portable Drive as back up.

- xv. If any Lab Test and Diagnostic software is there, for the surface system and downhole tools, must be provided.
- xvi. Details of the software with price break up need to be provided.

11.0 RIG-UP ACCESSORIES

- i. Stray voltage monitor: One rig voltage monitor mounted inside the cabin, with 50 meters long leads and accessories to measure a minimum rig voltage of 0.20 Volt at well site.
- ii. The Logging unit should be fully equipped with rig up and other standard accessories for straightaway commissioning of the unit. Detailed list along with price break up for each item is to be provided. However, certain operationally vital items with quantity as mentioned in the table below are to be included and confirmed in the offer.
- iii. Following rig-up/operational accessories are to be provided:

i	Sheaves, minimum 43.18 mm (17"), suitable for 7.9375 mm (5/16") O.D mono-conductor cable, and should be able to be used as both upper sheave and lower sheave, with floor stand etc.	04 nos.
ii	Sheaves, minimum 35.56 mm (14") dia., suitable for the 5.556mm (7 /32") O.D mono-conductor cable, and should be able to be used as both upper sheave and lower sheave, with floor stand etc.	04 nos.
iii	T - Hangers 1) 5/16" 2) 7/32" cable.	1) 1 Nos. for 5/16" cable 2) 1 Nos. for 7/32" cable

iv	Liner used in T-Hanger. 1) 5/16" 2) 7/32" cable. 3) Screw for mounting brass plate	1) 8 set for 5/16" cable 2) 8 set for 7/32" cable 3) 16 sets of screw.
v	Elevator hook T - bar.	2 Nos.
vi	Tie back chains of at least 7.5 m (24.61ft) with hooks to tie lower sheave (rated for 7.5 ton).	2 Nos.
vii	Goose Neck. 1) 5/16" cable 2) 7/32" cable.	1) 2 nos. for 5/16" cable 2) 2 nos. for 7/32" cable
viii	Hydraulic Cable Cutter with 5 nos. of spare blades for each cable size	1) 2 nos. for 5/16" cable 2) 2 nos. for 7/32" cable
ix	Mechanical cable cutter 1) 5/16" cable 2) 7/32" cable	1) 2 nos. for 5/16" cable 2) 2 nos. for 7/32" cable
x	Portable Analog Triplett multi-meter with Pelican carrying case.	3 Nos.
xi	Digital Blasting Galvanometer with case and 10 extra set of cells.	3 Nos.
xii	609.6 mm (24") pipe wrenches ("Ridgid" made or equivalent)	15 Nos.
xiii	457.2 mm (18") pipe wrenches ("Ridgid" made or equivalent)	15 Nos.
xiv	Electronic toolbox with standard tools & kits ("Jenson" made or equivalent).	1 Nos.
xv	Mechanical toolbox with standard tools & kits ("Craftsman" made or equivalent).	1 No.
xvi	Choke Blocks.	8 Nos.
xvii	Chain tongs – 18" and 24"	1) 6 nos. for 18" 2) 6 nos. for 24"
xviii	Cable head (1 7/16" OD – Spring Pin connection type, NOT having banana pin connection) with thread size 1 3/16" - 12 N – 2 ("GO" connection.) for	1) 25 nos. for 5/16" cable 2) 25 nos. for 7/32" cable

	i) 7/32" OD cable ii) 5/16" OD cable	
xix	Re-head kit for 1 7/16 inch OD mono-cable head (cone, cone-retainer, boots, o-rings etc.) for both 7/32" and 5/16" mono conductor cable	1) 100 kit for 7/32" cable 2) 100 kit for 5/16" cable Kit should contain all items required for cable re-heading.
xx	Portable Digital Insulation Tester with case	3 Nos.
xxi	All hand tools needed for cable re-head jobs (Armor cutter, Wire Stripper, wire crimping tools, hammer etc.)	7 Set
xxii	Silicon Grease for Cable head (to be used with Grease guns, DC-111 of 400 gm or equivalent) Note: If the bidder's quoted cable head uses a grease other than silicon grease, then the same grease is also to be quoted (Qty=200 nos. of tubes) in addition to silicon grease.	150 Nos.
xxiii	Lubriplate or Equivalent grease in tube (approx. 14 oz / 397 gms.)	40 Nos.
xxiv	1) Tool Dolleys 2) Flat ground roller stands 3) Basket Stands 4) Adjustable high stands fitted with roller for use during tool testing, calibration and repair work	6 nos. each (for items 1 to 4)
xxv	Well-site handling tools – Allen keys sets, Screw Drivers, Nose Pliers, Monkey wrench, Snap-Ring pliers and other tools required for well-site operation.	10 Set each

xxvi	Load cell (connectable to the upper or lower sheave) required for measuring the weight of the wireline and tools. The weight shall be displayed in the depth display panel inside the unit.	2 Nos.
xxvii	Spare Load cell reel of minimum 100m in length apart from the reel installed in the unit	3 Nos.
xxviii	Safety tube for detonator testing (G-25/A-105 etc)	2 Nos.
xxix	Heat Gun to dry out moisture in connectors	2 Nos.
xxx	Strap wrenches (To operate with tools up to 6" OD)	4 Nos.
Xxxi	Pneumatic toolbox set to open various sizes nut bolts (snap on make or equivalent)	2 Box
xxxii	Spare grounding reel with clamps of minimum 50m in length apart from the reel installed in the unit	2 reels
xxxiii	30 MT capacity hydraulic jack with handle. (These are over and above the quantity already placed in the Automobile Section)	2 Nos
xxxiv	Vacuum cleaner for cleaning of logging unit cabin.	1 No.
xxxv	Portable hot/cold-water high-pressure cleaner for cleaning of logging unit drum area.	1 No.
xxxvi	Heavy duty Drill Machine with all standard drill bits (1000 watt)	1 No.
xxxvii	Z-chart book used in winch operation should be provided.	10 nos.

xxxvii i	a) Wire cable connector (scotch lock) to be used in perforation operation rated for 350 degF and 15K psi. b) Crimper	a) 2000 nos. b) 4 nos.
xxxix	Any other items, which are operationally required.	2 sets each
xxxx	Spare air bags for tool racks as fitted in logging unit.	1 set.
xxxxi	a) Bench vise- for tubular size upto 8 inch. b) Pipe vise- for tubular size from 1 inch to 7 inch c) Spare jaw for a & b	a) 2 nos. b) 2 nos. c) 2 sets each.

NOTE: In addition to the items in the above list, the bidder must quote for any other item(s), if required, for straightaway commissioning of the unit. During equipment commissioning, if it is found that certain items are required but not quoted by the bidder, then the bidder must provide the same free of charge to OIL. OIL at its discretion may increase or decrease the quantity of items mentioned in the above list.

12.0 TECHNICAL MANUALS AND DOCUMENTATION

12.1 The following documents should be submitted along with the bid for bid evaluation:

- i. Technical leaflets, literature with detailed specifications, Make & Model of Logging Truck, Downhole Tools, Surface System and Fishing equipment etc. must be offered in the Bid.
- ii. Block Diagram of the surface Logging System containing all panels.
- iii. Layout drawing of proposed logging Cabin.
- iv. Layout drawing of proposed logging unit with dimensions.

12.2 The following documents should be submitted along

with the supply of the logging truck/equipment at no charge to OIL:

- i. One (01) set of Training Notes / Study Guides for the offered logging unit and all tools in properly bound volumes.
- ii. One (01) set each of Operations (FOM), Maintenance & Service manual covering all Mechanical, Electrical, Electronic systems and sub- systems, schematics of all the systems and sub-systems, including downhole logging tools in properly bound volumes.
- iii. Soft copies of all the above documents in CD / DVD and USB flash drive

All technical brochures / specification documentation and software related to the logging systems, all downhole tools and all major equipment /accessories offered by the bidder must be in English Language.

13.0 LOGGING TOOLS AND ACCESSORIES

All the down-hole logging tools as mentioned below should be rated for minimum 104 MPA (15,000 PSI) pressure and 176.6 Deg. C (350 Deg. F) temperature. Temperature rating should be for a minimum of one-hour continuous exposure in the well bore. The tools and cable head should have thread size 1 3/16" - 12 N - 2 ("GO" connection). All supplied tools and accessories must be corrosion resistant.

All the tools, centralizers/de-centralizers quoted must be of metallic body.

Note: Bidder must provide equivalent 20 nos. crossovers and 20 nos. servicing kit in case thread types used in tools are different from the type listed above (1-3/16"-12N-2 "GO" connection).

13.1 Casing Collar Locator (CCL)

Sl. No	Item	Quantity
01	Shooting CCL of size 1 11/16" OD	10 Nos
02	Shooting CCL of size 2" OD	15 Nos
03	Shooting CCL of size 3 1/8" to 3 5/8" OD with Quick change (Cross over).	10 Nos

	(Item should be able to connect and run with offered junk basket/BST)	
04	Service Kits (including O-Rings) for item in Sl. No. 01	20 Sets
05	Service Kits (including O-Rings) for item in Sl. No. 02	20 Sets
06	Service Kits (including O-Rings) for item in Sl. No. 03	20 Sets
07	Service Kits (including O-Rings) for item in Sl. No. 04	20 Sets

Note: If Double-diodes have same part number for Sl. No. 01 to 04, then, bidder may provide only 20 number of Double-diodes for each part number.

13.2 Shooting GR/CCL

Sl. No	Item	Quantity
01	1 11/16 inch OD Shooting GR/CCL (Hunting /Titan/Bidder's own make)	02 Nos
02	Shooting GR/CCL (OD: 3 1/4 to 3 5/8 inch) with quick change assembly to run with junk basket/BST	02 Nos
03	Gamma Ray Calibration Jig required to calibrate item mentioned in sl. no. 1 and sl. no. 2 of clause 13.2	01 each

13.3 Plug/Packer setting tool and Junk catcher

01	BAKER Model E4 Size # 20 Wireline Pressure Setting Tool or equivalent. If bidder provides a setting tool other than BST, bidder has to provide suitable adapters (6 no's each), mandrels (6 no's each) etc. so as to make it compatible with OIL's existing Plugs, Packers and Explosives (which are compatible with BST E4 Size#20).	2 Nos.
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02	Quick change (Cross over) compatible with tool mentioned in sl. no. 4 of clause 13.1 (Compatible with BAKER Model E4 Size # 20 setting tool).	5 Nos
03	Redress Kit for Quick change (Cross over) compatible with tool mentioned in sl. no. 2 of clause 13.3	50 Set
04	BAKER Model E4 Size # 10 Wireline Pressure Setting Tool or equivalent. If bidder provides a setting tool other than BST, bidder has to provide suitable adapters (6 no's each), mandrels(6 no's each) etc. so as to make it compatible with OIL's existing Plugs, Packers and Explosives (which are compatible with BST E4 Size#10). .	1 No.
05	Quick change (Cross over) compatible with tool mentioned in sl. no. 1, 2 and 3 of clause 13.1 (if required, compatible with BAKER Model E4 Size # 10 setting tool).	5 Nos
06	Redress Kit for Quick change (Cross over) compatible with tool mentioned in sl. no. 5 of clause 13.3	15 Set
07	Spare Firing Head and detonator block for the BAKER Model E4 Size # 20	05 Nos.
08	Spare Firing Head and detonator block for the BAKER Model E4 Size # 10	05 Nos.
09	Redress kit for Firing Head of BAKER Model E4 Size # 20	50 Set
10	Redress kit for Firing Head of BAKER Model E4 Size # 10	20 Set
11	JUNK CATCHER to run for hole probing before running BAKER model E4 Size #20 for casing sizes of 5", 7", 9 5/8" inch. The junk catcher should be able to connect with Shooting CCL of size 3 1/8" to 3 5/8" OD	1 No each for each casing size
12	JUNK CATCHER to run for hole probing before running BAKER model E4 Size # 10 for casing size of 4 1/2". The junk catcher should be able to connect with shooting CCL of size 1 11/16" OD, 2" OD and 2 1/8"	2 Nos.

	OD.	
13	Gauge ring of 3.6 inch (OD) for 4 ½ inch liner with screw if any.	04 Set
14	Gauge rings of 4 inch (OD) for 5 inch liner with screw if any.	03 Set
15	Gauge rings of (a) 4.34 inch (OD) and (b) 4.5 inch (OD) for 5 ½ inch casing with screw if any.	03 Sets each
16	Gauge rings of 5.73 inch (OD) for 7 inch casing with screw if any.	02 Set
17	Gauge rings of 8.2 inch (OD) for 9 5/8 inch casing with screw if any	02 Set
18	BST redress kit (O-rings etc.) for item mentioned in sl. no. 1 of clause 13.3	100 nos.
19	BST redress kit (O-rings etc.) for item mentioned in sl. no. 4 of clause 13.3	50 nos.
20	Oil required for BST for item mentioned in sl. no. 1 of clause 13.3	For 100 nos. of job
21	Oil required for BST for item mentioned in sl. no. 4 of clause 13.3	For 50 nos. of job
22	All types of O-rings required for firing head, and detonator block for item mentioned in sl. no. 7 of clause 13.3	100 set
23	All types of O-rings required for firing head, and detonator block for item mentioned in sl. no. 8 of clause 13.3	25 set
24	Any special hand tool required for operating/ servicing the for item mentioned in sl. no. 1 and sl.	04 set each

	no. 2 of clause 13.3 (e.g. C-Clip plier etc)	
25	Bleeder valve assembly with handling tool for item mentioned in sl. no. 1 and sl. no. 2 of clause 13.3	06 set each
26	Oil level gauge for E4 size 20 and Size 10 BST	05 nos. each
27	O ring size measuring gauge/cone	05 Nos

Note: If bidder provides a setting tool other than BST, bidder has to provide all suitable adapters, mandrels, detonator blocks, firing heads, crossovers, quick change etc. for the items in the above table in the above mentioned quantities or more, so that setting tools SIZE#10 and Size#20 are compatible in all aspects with OIL's existing inventory of Plugs, Packers and Explosives for BST jobs.

Any item for the same which bidder doesn't quote but is found to be necessary for carrying out a Setting Tool job, must be provided by bidder Free of charge to OIL.

13.4 SINKER BAR

Sl. No	Item	Quantity
01	1 11/16" Sinker Bar(Tungsten) (5-6) ft	15
02	1 11/16" Sinker Bar(Tungsten) (3-4) ft	15
03	Service Kit for 1 11/16" Sinker Bar(Tungsten) (3-4) ft sinker bar (along with connecting rod, insulating fiber, washer, o-rings, pins etc.)	50
04	Service Kit for 1 11/16" Sinker Bar(Tungsten) (5-6) ft sinker bar (along with connecting rod, insulating fiber, washer, o-rings, pins etc.)	50

13.5 MULTI-FINGER IMAGING TOOL (MIT) OR EQUIVALENT

- a. MIT 24 fingers – 01 no.
- b. MIT 40 fingers – 01 no.
- c. MIT 60 fingers – 01 no.

Minimum Technical Specification for both the tools:

- i. The tool should be able to run on standard mono cable with Warrior software or bidders supplied software.
- ii. The tool should use digital telemetry to transmit data in real-time to surface computer.
- iii. The offered tools should have minimum temperature rating of 350 degF and minimum pressure rating of 15000 psi.
- iv. Multi- finger caliper tool (qty=01 no.) having minimum 24 fingers should be capable of operating through $2\frac{7}{8}$ inches tubing to accurately measure the inner pipe diameters of $2\frac{7}{8}$ inch (OD) to 7 inch(OD) tubulars.
- v. Multi- finger caliper tool (qty=01 no.) having 40 fingers to accurately measure the inner pipe diameters in 4 $1\frac{1}{2}$ inch (OD) to 9 $5\frac{1}{8}$ inch(OD) tubulars.
- vi. Multi- finger caliper tool (qty=01 no.) having 60 fingers to accurately measure the inner pipe diameters in 4 $1\frac{1}{2}$ inch (OD) to 13 $3\frac{3}{8}$ inch(OD) tubulars.
- vii. The tools must have inclinometer to provide well deviation and sensor information to indicate high or low side of the well reference to measurement sensors.
- viii. The bidder must offer 03 nos. each of Gamma Ray, Casing Collar Locator & Telemetry tool compatible to run with the offered multi- finger caliper tools.
- ix. Bidder must offer following nos. of metallic roller centralizers for **24 finger tool**:

Quantity – If the same size of centralizer is used for 2 $7\frac{7}{8}$ inch tubing, 5 inch, 5.5 inch and 7 inch casing, then total quantity = 06 Nos.,

OR

Quantity – If different sizes of centralizers are used for covering different sizes of tubing/casing range (i.e. from 2 $7\frac{7}{8}$ inch to 7 inch) then, 04 Nos. of each size of centralizers need to be quoted.

- x. Bidder must offer following nos. of metallic roller centralizers for offered **40 finger/60 finger tool**

Quantity – If the same size of centralizer is used for 4.5 to 13 3/8 inch casing, then total quantity= 10 Nos.,
OR
Quantity – If different sizes of centralizers are used for covering the different sizes of casing range (i.e. from 4.5 inch to 13 3/8 inch) then, 04 Nos. of each size of centralizers need to be quoted.
- xi. One set of calibration equipment should be offered for each multi- finger caliper tool. If same calibration equipment is used for both or all the tools, 1 set of calibration equipment need to be provided for each tool.
- xii. Any other accessories required for the complete tool operation should also be provided.
- xiii. Suitable post processing and interpretation software with license validity upto 15 years for the acquired data should be quoted to generate 3D visualization of tubing/casing and to evaluate percentage of damage of tubing/casing etc.
 - a. The software must be of latest version and able to run on windows 10 or above, if any base software needed to run the software need to be provided with license validity upto 15 years. The quoted software must be able to process the las/dlis data.
 - b. Latest version Warrior, wiper and wiva or bidders supplied software with license valid upto 15 years are preferable for the post processing & interpretation of the recorded data.
 - c. Computer hardware need not be quoted.
 - d. Provided software need to be installed on computer hardware provided by OIL, during installation & commissioning.
- xiv. Spare finger set & other accessories to be quoted for the tool:

Sl. No.	Tool	Finger Type	Qty
a.	MIT 24 Finger	Normal	5 set
b.	MIT 24 Finger	Extended	3 set
c.	MIT 40 Finger	Normal	5 set
d.	MIT 40 Finger	Extended	2 set
e.	MIT 60 Finger	Normal	2 set
f.	MIT 60 Finger	Extended	2 set
	For above spare fingers, if any tool only comes with one type of finger (normal) and does not have the option of extended fingers then normal fingers are to be quoted against the above 'Extended' finger type line items.		
g.	Actuator for 24 finger MIT, along with the temperature coefficient	---	1 set
h.	Actuator for 40 finger MIT, along with the temperature coefficient	---	1 set
i.	Actuator for 60 finger MIT, along with the temperature coefficient	---	1 set
j.	Any hand tool set required for servicing of 24 finger, 40 finger and 60 finger tools	---	3 sets
k.	Post job servicing kit for tools to open/close fingers	---	1 set

13.6 FREE POINT TOOL

Motorized dogleg type FPI tool - 4 nos

The bidder must offer latest type of motorized FPI tool capable of providing accurate determination of stuck-point of tubular assembly on application of stretch and torque in vertical and deviated wells. The tools should be able to run on standard mono cable (1 3/16" GO PIN connection) with Warrior software. The offered tool must be rated for minimum 15000 psi and minimum 350 deg F. The tools must be 1-11/16 inch OD or less in diameter.

Minimum Technical Specification:

- i. The Free-Point tool response must be digitally recorded for playback and log printing.
- ii. The tools must be able to determine free-point inside 2 7/8 inch OD Tubing, 4.5 inch, 5 inch, 5 1/2 inch to 9 5/8 inch OD casing and inside standard drill pipes IDs (3 1/2 inch to 8 inch DP) and weights.
- iii. All necessary equipment, accessories, centralizers, if required must be quoted along with tool.
- iv. Bidder's offer of motorized FPI tool must be supplied with interchangeable doglegs/anchors for working within tubing, casing and drill-pipe.
- v. Bidder should quote 15 sets of dogleg/anchor assembly as spare item against each tubing, casing and drill pipe sizes. If same set of dogleg is used for more than one tubular size, then only 15 sets needs to be quoted for that size/sizes of tubulars.
- vi. The FPI tool must have CCL for depth correlation. Bidder must provide spare CCL (6 Nos) in addition to the one already integrated with the tool.
- vii. The FPI tool must be provided with a portable surface panel for carrying out tool operation. The portable panel must be housed inside suitable carryon box.
- viii. Bidder must provide additional top section, bottom section and sensor-section as spare (1 set each)

**13.7 SKID MOUNTED 10K PSI WIRELINE PRESSURE CONTROL EQUIPMENT SYSTEM & OTHER RELATED ACCESSORIES;
QUANTITY = 01 (ONE) SET**

13.7.1 PRESSURE CONTROL EQUIPMENT SYSTEM:

The pressure control system (skid unit), rated for 10,000 PSI working pressure, **must be of compact design** with an upright stance (to allow operator to work from standing position) and must include all accessories, spares & consumables with quantity as mentioned in the table below. The Well head Pressure Control Equipment must be preferably of **ELMAR/ASEP/KEA/HUNTING/FORUM/Bidder's own make-** 10,000 PSI System or equivalent make housed inside a heavy duty, single lift transport frame. **Bidder to note that Pressure Control Equipment is related to safety and accordingly should be from a reputed company which is supplying such equipment to major wireline oil service company. The offered item should be API Certified Pressure Control Equipment. In line with above, if equivalent Pressure Control equipment is offered by the bidder, suitable adaptors of 10,000 PSI rating must be provided to interconnect NOV Elmar make Pressure Control equipment available with OIL and having following connection type:**

4.75" – 4X2 (3.750" Seal Dia.) E09 Box Top X Pin and Collar down with threaded protectors.

**13.7.2 10K PSI AIR POWERED HYDRAULIC MODULE:
Quantity-01**

The grease injection head must be operated using air driven hydraulic pump grease injection system with a suitable control panel mounted on the unit itself. The unit must also be able to operate BOP, a tool trap, tool catcher, stuffing box, line wiper in addition to the grease head. Each type of hose mounted in the Hydraulic Module must have metallic tags corresponding to their respective operation for better identification. The grease delivery line must be of different

color from the rest of the hoses. The above unit (BOP Grease and Hydraulic Control Module) must be mounted/housed inside parent Pressure control equipment skid. The equipment must come with following minimum features:

- (i) The offered module must be light weight compact unit.
- (ii) The grease control module/unit must be suitable for controlling well pressure up to 10,000 psi WP.
- (iii) The grease module with grease tanks must be operated with (each independent pump) air driven grease pumps. Both pumps must be completely identical and capable of independent operation. If dual air driven grease pump is not available with the model, the additional air driven grease pump must be provided separately.
- (iv) The air-operated grease injection pumps must be suitable for operation in well pressure up to minimum 10000 psi. Both the independent grease injection systems (if dual air operated grease pump offered) must be operated from one integrated control panel.
- (v) Proper Air-regulator should be provided to allow variable control of grease flow rate and pump stall pressure.
- (vi) Suitable separate (Quantity - 1 Set) 120 feet reel hoses mounted on **motorized** wet-center reels for easy winding must be provided for operation of the Tool Catcher, BOP, Tool Trap, Pack-off, Line wiper and for supply/return of grease to the grease injection head.
- (vii) Bidder must provide Grease Transfer Pump.
- (viii) The module should have stainless steel engraved control panel clearly marked with control indications.

13.7.3 WIRELINE GREASE INJECTION CONTROL HEAD & STUFFING BOX FOR 10K PSI WORKING PRESSURE, Quantity-01

Grease injection control head is required to create a seal around a moving 7/32" OD and 5/16" OD wireline allowing intervention access to wells under pressure. Grease Injection control head must be housed inside the parent Pressure Control Equipment System mentioned in Clause 13.9.1. The equipment must come with following minimum features:

- i. The grease injection control head must contain two major sub- assemblies, the stuffing box or pack-off and the flow tube section consisting of min 5 nos. of concentric flow tube assembly.
- ii. The bidder must offer concentric flow tubes assembly having flow tubes sized to operate with 7/32" OD mono-conductor cable fitted with the Logging Unit. The Grease control head unit must also be capable to accommodate flow tubes for 5/16" OD mono-conductor cable fitted with the Logging Unit.
- iii. The control head must also incorporate an integral line wiper required to clean the cable while coming out of well.
- iv. The grease injection control head must have a grease delivery line with check valve/non-return valve and a grease return line.
- v. The bidder must provide extra 01 set of Hose assembly, each of min 120 ft length, with quick coupling for wireline grease injection control head and stuffing box operation in addition to the one available with the parent PCE module.

13.7.4 10K LIGHT WEIGHT LUBRICATOR ASSEMBLY,
Quantity-01 set consisting of following:

- i. Bidder must quote 4 nos. of light weight alloy Wireline Lubricator Section for 10,000 psi Working Pressure, Standard service having 3" (76.2 mm) ID X 8ft (2.44m) Long with metallic lifting caps and thread protectors.
- ii. Bidder must quote 02 no. of light weight Wireline alloy Lubricator Section for 10,000 psi Working Pressure (WP), Standard service having 3.0"(76.2 mm) I.D. X 6 ft (1.82 m) long having one 1/2" NPT port (18 inch from bottom) with metallic lifting cap and thread protector along with 10K pressure gauge. Bidder must provide suitable 1/2" NPT port plug/blind for Lubricator while not in use.

13.7.5 HYDRAULIC TOOL TRAP, Quantity-01

- i. Bidder must provide 01no. 10K Working Pressure Hydraulic activated Tool trap with external indicator and lifting caps.
- ii. Bidder must provide 01 set Hand Pump assembly rated min 3K Working Pressure and fitted with Pressure

gauge for Tool Trap device operation. This is in addition to the one available with the parent PCE module mentioned in clause 1.0.

- iii. The bidder must provide 01 set of Hose assembly, each of min 60ft length, with quick coupling for Tool Trap operation in addition to the one available with the parent PCE module.
- iv. The Tool Trap must be equipped with carrying handles and protectors for the hydraulic components.
- v. Bidder is requested to quote the spare spring and flapper assembly fitted with the tool trap-02 nos.

13.7.6 LIGHT WEIGHT 10 K BLOW OUT PREVENTER (BOP),
Quantity-01 as described below:

- i. Bidder must quote compact light weight Dual ramp (or above) type 10K Working Pressure Hydraulic activated Wireline BOP with manual backup option.
- ii. The Dual ramp (or above) BOP fitted with ram for 7/32"OD cable size.
- iii. Bidder must provide 02 sets of complete spare BOP rams for both 7/32" OD and 5/16" OD cable size.
- iv. Bidder must quote 1 set of "Y"-Hose" assembly for Wireline BOP "OPEN" function fitted within the parent PCE skid unit **in addition to the one available with the parent PCE module.**
- v. Bidder must quote 1 set of "Y"-Hose" assembly for Wireline BOP "CLOSE" function fitted within the parent PCE skid unit **in addition to the one available with the parent PCE module.**
- vi. Bidder must provide 02 no. of 4-way valve (preferably) Hand Pump assembly for Wireline BOP with Pressure Gauge and quick connectors for hoses.
- vii. Bidder must quote 02 nos. per set of X60 ft long Hose assembly with quick end connectors for BOP operation **in addition to the one available with the parent PCE module.**
- viii. Equalizing and bleed-off valves must be provided with BOP (as necessary).
- ix. Must have Transportation cage with Lifting caps.

13.7.7 SKID MOUNTED COMPACT DIESEL ENGINE
DRIVEN AIR COMPRESSOR, QTY-01 No

- i. Standalone, Compact Diesel Engine Driven Air Compressor mounted on skid (preferably overall

dimension should not be more than 1.0 m width, 2.0 m length and 1.0 m height for reason of mounting on OIL's available unit – **highly compact unit is desired**) complete with all accessories for continuous supply of compressed air of volume min 70-90 CFM (cubic feet per minute) @100 psi to operate Hydraulic Control Module offered above. Two numbers of Air outlet connections with quick connect must be provided. Two nos. of suitable air-hose reel 100ft. length mounted on **motorized** heavy duty wet-center reel must be provided.

- ii. Bidder is requested to provide the positive air shut off valve with the compressor for safety in logging operations.
- iii. Bidder is requested to quote spares and consumables for the offered compressor for **10** nos. of periodic maintenance.
- iv. Bidder is requested to quote necessary Fuel filter, Air filter, Oil/lube filter for the offered compressor-10 nos. each type.
- v. Bidder is requested to quote spare air regulator fitted with the offered compressor-02 nos.
- vi. Bidder is requested to quote different types of air hose clamps fitted with the offered compressor-10 nos. each.
- vii. Bidder is requested to quote quick connects fitted with the offered compressor (if applicable)-10 nos. each.
- viii. Bidder is requested to quote pressure gauge fitted with the offered compressor-02 nos. each.
- ix. Bidder to provide a complete list of spares required for maintenance of the unit for at- least 2 years.

Note I: The above compressor skid shall be used in Oil & Gas wells for operating Air driven Grease injection pumps required with Pressure Control Equipment operation and other equipment.

Note II: Bidder must quote all items including any item which is not mentioned in clause above, required for successful operation with offered PCE unit. Any item found required during commissioning but not quoted by bidder must be offered Free of Charge basis to OIL.

13.7.8 PORTABLE 10,000 PSI PRESSURE TEST UNIT; QUANTITY= 01 NO.

- i. Bidder must provide compact standalone pressure test

unit to pump water for testing the lubricator assembly up to 10,000 psi. Required model is Elmar Portable Pressure Test Unit (P/N L-696820) or equivalent.

- ii. The unit must have air-driven high-pressure pump.
- iii. The unit must have stainless steel inbuilt water tank along with minimum 100ft. line hose on wet-center reel.

13.7.9 The bid must contain the following additional Spares and Consumables against the 01 (One) set of PCE equipment (i.e. items must be quoted as per Quantity specified and will be used for bid evaluation) :-

S/N	MATERIAL DESCRIPTION	QUANTITY
ADDITIONAL EQUIPMENT		
1.	Pneumatic toolbox set to open various sizes nut bolts (snap on make or equivalent)	01 SET
2.	At least 25 m pneumatic hose mounted in the unit with suitable quick connection to take air from the compressor unit for various purpose like operation of pneumatic tools	01 No.
3.	Suitable adapters/quick connection for the air hose	10 sets
4.	Well Head Adapter Flange of i. 2-9/16" size, BX-153 groove, 10,000 psi rating ii. 2-9/16" size, RX-27 groove, 5,000 psi rating	01 No each
5.	Suitable blank plugs to plug hoses, nipples fitted in the unit and pressure control equipment after use	10 nos.
6.	10K WP Bleed off sub with 10,000 psi pressure gauge to release pressure trapped in PCE assembly (with 1/2" NPT port for connection of suitable valve) & compatible for use with Lightweight Lubricators	02 Nos.
7.	10,000 psi rating Swage adaptable to 2 7/8" EUE tubing	02 Nos.

8.	Lubricator clamp, spreader and wire rope slings assembly OR ANY OTHER ITEMS REQUIRED FOR OPERATION	02 Nos.
SPARES AND CONSUMABLES		
9.	SPARE Hydraulic twin hand pump for BOP and Tool trap operation.	02 Nos.
10.	SPARE high-pressure light weight hoses (at least 75 meters) same as fitted in the skid for grease injection with necessary connection and adaptors on Wet-center reels. (Please note that if a single roll of 75m long hose is not available / mountable the same may be provided as separate 120 ft. length hoses with suitable connector/adaptor for obtaining required length)	02 Nos.
11.	SPARE NRV/Check Valve fitted in 10K Grease Control Head equipment for operating in oil & gas wells.	25 Nos.
12.	Flow tube for 7/32" cable: a. True gauge and b. Over Gauge (1 Set = 4 flow tubes)	15 set each
13.	Flow tube for 5/16" cable: a. True gauze and b. Over Gauge (1 Set = 4 flow tubes)	5 sets each
14.	Metallic Line bushing a. 7/32" and b. 5/16"	a. 15 Nos b. 5 Nos
15.	Line wiper/rubber a. 7/32" and b. 5/16"	a. 25 Nos b. 5 Nos
16.	SPARE Complete BOP RAM set for 5/16" OD cable	01 nos.
17.	SPARE Complete BOP RAM set for 7/32" OD cable	03 nos.

18.	Any other spares, consumables required for 30 number of well-site operation with Pressure Control Unit Skid and not mentioned elsewhere in tender	Quantity as per bidder's recommendation
19.	All types of Quick Couple and nipples fitted with GIH, Wireline Valve, Tool trap, Cable Cutter, Tool catcher	50 nos each type
20.	Additional Shackles as spare apart from those fitted with different modules mentioned in sub clauses of 13.9 which will be used for lifting operation.	04 nos each type.

NOTE: OIL at its discretion may increase or decrease any item(s) quantity under clause 13.9.9

14.0 BOWEN 150 SERIES OR EQUIVALENT CASED HOLE FISHING EQUIPMENT

- i. The bidder must offer one (01) no. of complete fishing kit assembly for fishing operation in 4 ½ inch OD casing fitted with spiral grapple to catch 2 1/8-inch tool body.
- ii. The bidder must offer one (01) no. of complete fishing kit assembly for fishing operation in 5 ½ inch OD casing fitted with spiral grapple to catch the offered CCL in Sl. no. 04 of clause 13.1.
- iii. The fishing overshot should be able to connect with the 2 7/8 inch EUE N80 tubing. Additional adapter to be provided to connect the overshot with 2 3/8" NUE N80 tubing.
- iv. One no. of guide for each casing/liner sizes of 4 ½ inch, 5 inch, 5 ½ inch, 7 inch, 9 5/8 inch OD.
- v. Two (02) nos. of basket grapples (with basket grapple control) for catching 1 7/16-inch cable head.
- vi. Two (02) nos. of spiral or basket grapples (with spiral or basket grapples control) for catching 2 1/8-inch tool body should be provided.

- vii. Two (02) of spiral grapples (with spiral grapples control) for catching offered CCL in Sl. no. 04 of clause 13.1.
- viii. For the fishing kit, item-wise complete list of all the parts with respective Part Number to be furnished.
- ix. Any other accessories not mentioned above and required for fishing operation in cased hole, need to be quoted.

15.0 SPARES PARTS AND CONSUMABLES (Similar to the one fitted in the logging units)

Bidder must quote following spares and consumables with individual price break-up:

15.1 Spares and consumables for Depth and Tension Measuring system

S/N	MATERIAL DESCRIPTION	QUANTITY
a	Depth and tension measuring head.	02 Nos
b	Depth measurement/ Winchman panel	02 Nos
c	Backup depth display panel	02 Nos
d	Encoders	02 Sets
e	Measuring Wheels, Load pins, Tension Wheels (for 5/16 and 7/32 cable)	04 Sets Each
f	Guide rollers, bearings and any other items that undergo wear and tear (quantity used in one measuring head)	02 Sets

15.2 Spares for Hydraulic System:

S/N	MATERIAL DESCRIPTION	QUANTITY
a	Joystick for winch operation	02 Nos
b	Speed Controller for hydraulic alternator	02 Nos
c	Hydraulic Alternator with all accessories same as fitted in the unit	01 No
d	Speed Controller for Winch Hydraulics	02 Nos
e	Voltage regulator for hydraulic	02 Nos

	alternator	
f	Controller module for Winch Hydraulics	02 Nos
g	Any other PCB/electronic module/controller required for winch and alternator operation (pre-programmed and ready for use) (firmware/program associated with above quoted PCB/electronic module/PLC must also be supplied in CD/DVD/USB along with any additional programming hardware kit/software necessary to program the electronic module/controller)	02 each

15.3 Spare for Diesel Generator:

S/N	MATERIAL DESCRIPTION	QUANTITY
a	All type of filters (fuel filter, air filter and oil filter etc.)	20 Nos
b	Spark Plugs	02 sets
c	Other consumable spares for servicing of the diesel generator for five years of the unit.	As Applicable

15.4 Spares for Surface Systems

S/N	MATERIAL DESCRIPTION	QUANTITY
a.	Spare RMPC same as fitted in the logging unit	02 No
b.	Spare SMPS for RMPC	02 Nos
c.	Spare graphics card for RMPC	02 Nos
d.	Spare Monitor same as fitted in the logging unit	02 Nos
e.	Spare keyboard and mouse same as fitted in the logging unit	02 Nos Each
f.	Laptop loaded with complete acquisition software with license	01 No

g.	Thermal Printers same as fitted in the Unit	01 Nos
h.	Spare shooting panel same as fitted in the logging	02 No
i.	Spare CHIP panel same as fitted in the logging unit	02 No
j.	Spare stray voltage measuring panels same as fitted in the logging unit	01 No
k.	Any other panels (except depth measurement panel) fitted in the logging unit which is not covered above	01 No Each
l.	Depth Tension (Hoistman) display	02 No
m.	Un-interrupted power supply (UPS) same as fitted in logging unit	02 nos
n.	Any other panels fitted in the logging unit which is not covered above	02 No Each
o.	All cables interconnecting the monitors, panels, bulkhead & depth measuring panel in the logging unit	02 Set Each
p.	All PCBs for CHIP, depth panel display and controller board need to be quoted. If PCB/motherboard/hard disk etc. for winchman panel are not readily swappable for the provided Winchman panel, bidder has to provide 2 no's of additional winchman panels against this clause.	02 No Each

15.5 Spares for Logging cabin Air Conditioner and illumination accessories:

S/N	MATERIAL DESCRIPTION	QUANTITY
a	Logging cabin Air Conditioner	02 Nos
b	Mounting gaskets for cabin AC	5 Nos
c	Mounting bolts and screws for cabin AC	20 Nos
d	Filters for cabin AC	30 Nos

e	Any other spares required for periodic servicing	Qty required for 5 servicing
f	Replacement light bulbs (for all the cabin lights)	15 Nos Each type
g	Complete light fixtures for rig light and work light	04 Nos Each type
h	Replacement light bulbs for rig light and work lights	5 Nos Each type

15.6 Tool-wise Maintenance Spares:

i. Casing Collar Locator(CCL):

S/N	MATERIAL DESCRIPTION	QUANTITY
a	Spare Double diodes for 1 11/16" OD CCL	20 Nos
b	Spare Double diodes for 2" OD CCL	20 Nos
c	Spare Double diodes for 2 1/8" OD CCL	20 Nos
d	Spare Double diodes for 3 1/8"-3 5/8" OD CCL	20 Nos
e	All PCBs (if any)	02 sets of each type

ii. Shooting GR/CCL:

Sl. No	Item	Quantity
01	Complete Detector assemblies (for straightaway replacement) for item sl. no. 1, same as fitted in the tool. Optical coupling grease (if needed) to be provided.	02 Nos
02	Complete Detector assemblies (for straightaway replacement) for item sl. no. 2, same as fitted in the tool. Optical coupling grease (if needed) to be provided.	02 Nos

03	All PCBs inside item mentioned in sl. no. 1 of clause 13.2	02 Set
04	All PCBs inside item mentioned in sl. no. 2 of clause 13.2	02 Set

iii. MULTI-FINGER IMAGING TOOL (MIT) OR EQUIVALENT:

Sl. No.	Tool	Finger Type	Quantity
a.	All PCBs inside 24 finger tools	---	2 no. each
b.	All PCBs inside 40 finger tools	---	2 no. each
c.	All PCBs inside 60 finger tools	---	2 no. each
d.	All PCBs inside CCL, GR and telemetry tool	---	3 nos. each

iv. Motorized dogleg type FPI

S/N	MATERIAL DESCRIPTION	QUANTITY
a	All PCBs	02 sets each
b	Spare motors	06 Nos
c	Display meters used in portable panel	1 set for each panel
d	All types of Control knobs fitted in the portable panel.	1 set for each panel
e	PCB (if any) used in the portable panel	1 set for each panel

15.7 Other accessories and consumables:

S/N	MATERIAL DESCRIPTION	QUANTITY
a.	Thermal papers (roll/fanfold) need to be provided which will fit into the thermal printer installed in the logging unit	50 Nos
b.	Paper (roll/fanfold) need to be provided which will fit into the color printer installed in the logging unit	10 Nos
c.	Spare Slip-rings same as fitted in the unit, total quantity	04 Nos (02 for 5/16" and 02 for 7/32" cable)
d.	Spare cables between Slip Ring to bulkhead same as fitted in the unit	04 Nos (02 for 5/16" and 02 for 7/32" cable)
e.	Spare cables (for encoder, loadpin, etc) used between Bulkhead (weatherwall) to Measuring head	02 sets
f.	Spare patching cables connecting Bulkhead (weatherwall) Loadcell reels (if applicable)	02 Nos
g.	Spare patching cables used between Bulkhead (weatherwall) to Grounding reels (if applicable)	02 Nos
h.	Spare cable used to connect Slip ring to conductors of wireline cable	02 Nos
i.	Cables inside logging cabin from Bulkhead (weatherwall) to Logging system	02 Sets
j.	Dynamic O-rings (if any) for Multifinger Imaging Tool or equivalent	100 Nos. each
k.	Each type of O-rings used in each downhole tool(clause 13.1 to 13.9) of	100 Nos. each

	Section B	
l.	O-ring used in each downhole tool (clause 13.1 to 13.9) of Section B which requires change during carrying out PM2/tool assembly and disassembly.	100 Nos. each
m.	Nuts, bolts, washers, roll-pin, lock-pin, connectors, different pins and boots, back-up rings etc. used in each downhole tool (clause 13.1 to 13.9) of Section B.	2 times the qty used
n.	Wear pads/strips or any other items (if any) used in the downhole tools (clause 13.1 to 13.9) of Section B.	05 Nos. each
o.	Thermal pads used in tool PCBs for heat dissipation must be quoted (if used in tools)	Minimum 10 meters.
p.	Printing Head (spare) for the thermal printers fitted in the unit	10 Nos
q.	Ink cartridges for colour printer	10 cartridge set
r.	Magnetic Positioning Device (MPD) required for 2 1/8 in TTP job operation (Pin type connection having 1 3/16" - 12 N - 2 ("GO" connection).	5 Nos
s.	Magnetic Positioning Device (MPD) required for 1 11/16 in TTP job operation (Pin type connection having 1 3/16" - 12 N - 2 ("GO" connection).	3 Nos
t.	Back off bar with firing head (The top of the firing head should be Pin type connection, 1 3/16" - 12 N - 2 ("GO" connection).	20 Nos
u.	1 11/16-inch OD male (Pin) to male (Pin) adapter with Service kits. All threads must be standard "GO" connection	06 Nos Each
v.	1 11/16-inch OD female (Box) to female (Box) adapter with Service kits. All threads must be standard "GO" connection	06 Nos Each
w.	Brass Screw Driver	3 Nos
x.	Wire Stripper	10 Nos

y.	Digital Vernier Caliper (0-300 mm)	5 Nos
z.	Rubber Mallet	3 Nos
aa.	Consumables used in TTP operation:	
	1 Mocap tape	50 Nos
	2 High temperature tape	50 Nos
	3 Splicing rubber Boot	200 Nos
	4 Nylon Thread	50 Rolls
	5 Wires required for MPD servicing	200 m
	6 MPD servicing rubber boot	50 Nos

NOTE: The Bidder is expected to quote every item as mentioned in the above Clause 15 of Section B. If the Bidder fails to quote any of the above items in the bid but found to be a part of the equipment during five years from the date of successful commissioning of the equipment, the bidder must supply the same FREE OF CHARGE TO OIL.

NOTE: Bidders must note that OIL at its discretion may increase or decrease the quantity of above spares and consumables.

16.0 STANDARD PRICE LIST

Bidders are also required to submit a standard price list of the entire items used in the offered tools and surface systems. The price list must include all electronic, electrical, hydraulic items, mechanical items, accessories and consumables, Sub-assemblies, surface electronic system of the truck unit and downhole tool. The price list should contain description, part number and unit price of each item.

- i The Bidder must submit a written commitment that the spares and consumables will be supplied on chargeable basis to OIL **(with price reasonability)** for a period of 10 years from the date of successful commissioning of the equipment, and in the event, a part

is not available due to a vendor going out of business or some other reason, the Bidder will determine and supply a suitable replacement part on chargeable basis to OIL.

- ii Procurement of spares, accessories, PCBs, consumables etc. as mentioned above shall be at the discretion of OIL.

(This is required for OIL's future reference / procurement only, and will not be considered for bid evaluation)

17.0 PAST PERFORMANCE

At the time of technical evaluation of the offers, past performance of similar equipment supplied by the bidder as well as after-sales service, supply of spares etc. in respect of such equipment by the concerned bidder will be considered. If the same are not found to be satisfactory as already communicated to the bidder, the offer may be considered as unacceptable and rejected.

18.0 ADDITIONAL NOTES TO BIDDERS:

- a. The bidder must confirm in writing along with their bid that the bidder or the party from which the bidder has quoted the items (its Parent / Subsidiary / Co-subsidiary) possess all standard testing & calibration facilities at their manufacturing Base / Testing centre, including pressure / temperature testing etc., for all the tools offered by them against this tender.
- b. The bidder or the party from which the bidder has quoted the items (its Parent / Subsidiary / Co-subsidiary) should also have proper R&D facilities for development and upgradation of their equipment.
- c. The bidder shall provide their response and mention applicable information/ Complied /Not Complied / Not Applicable / Make & Model etc. (as applicable) against individual clauses
As per table in Annexure A.

- d. The bidder shall mention details of Reference Document name / Serial number / Page number of bid for documentary evidence (if any)
- e. All documents should be suitably named and arranged for ease of bid evaluation.
- f. In the event of third-party sourcing of Logging Unit, the Bidder must submit a formal Declaration of Support ensuring the serviceability of both the Unit and the tools for a minimum period of 10 years from the date of supply. Notwithstanding any third-party involvement, the sole responsibility and onus for providing this long-term support shall rest with the Bidder.

19.0 DEVIATIONS FROM TECHNICAL SPECIFICATIONS

The bidder must quote as per the tender requirement only and provide full information wherever applicable in the bid. After opening of the bids, in case any technical clarification is required on any bid, OIL will seek clarification from that bidder and the bidder will have to reply/clarify with complete details within the specified time mentioned by OIL. If not complied, that particular bid may not be considered for further evaluation.

The bidder must respond to each and every clause in the Section-B in a tabular form as per **APPENDIX – B1**.

20.0 UNPRICED BID

Bidder must submit an un-priced bid along with technical bid by omitting the price from the invoices for technical evaluation of the bid.

*****END OF SECTION-B*****

TRAINING & INSPECTION CUM ACCEPTANCE
FOR CASED HOLE LOGGING UNITS

Note to bidder:

1. The bidder shall provide their response and mention applicable information/ Complied / Not Complied / Not Applicable against individual clauses in this Annexure – C.
2. The bidder shall mention details of Reference Document name / Serial number / Page number of bid for documentary evidence (if any)
3. The bidder shall submit the filled-up Annexure – C document along with their technical bid.
4. During inspection, all parts and accessories shall bear a Unique Identification Number (UID). These UIDs must be cross-verified and jointly signed by both the inspection team and the supplier's representative.
5. After successful inspection, the supplier shall ensure that only those items bearing the verified and accepted UIDs are dispatched to Oil India Limited (OIL). Upon receipt of the consignment, OIL shall again cross-check the items against the verified UIDs.

Clause No.	Clause Description	Bidder's Response
1.0	TRAINING:	
1.1	Immediately after placement of the Purchase Order, the successful bidder should communicate the proposed training schedule to OIL for the Field Engineers, Maintenance Engineers and Interpretation Engineers, at least 04 (four) months in advance for each training program. OIL in turn will confirm acceptance of the schedule of training at least 02 (two) months in advance for each program. The engineer's training program must be completed within 9 months of the issuance of LOA.	
1.2	The bidder will have to provide training for 04 (Four) Logging Operation Engineers, 02 (Two) Logging Maintenance Engineers and 02 (Two) Log Data Processing & Interpretation Engineers at their training school which is equipped with Test Well and all other requisite facilities. Interpretation Engineers Training on data processing software is to be provided for all the supplied tools, wherever it is required. The training charges, if any, should be quoted separately which shall be considered for evaluation of the bid. However,	

Clause No.	Clause Description	Bidder's Response
	passage and living expenses, including accommodation charges of OIL Engineers nominated for the training courses will be borne by OIL.	
1.3	LOGGING OPERATION ENGINEERS' TRAINING:	
a.	This should include detailed aspects of cased hole wireline logging, Data Acquisition Software, operation of tools procured, well completion system / different types of perforations, Special emphasis should be given on operation and maintenance/servicing of wireline Pressure Control Equipment, Hydraulic and Pneumatic systems for operation, Wireline spooling, winch operation and basic equipment troubleshooting at Base and at Fields in addition to the regular curriculum for Field Engineers' Training Course at the supplier's Training School. Duration of the training period, locations of training and prerequisite of the trainees, if any, should be clearly specified in the bid document. The successful bidder will have to arrange for a training program for 04 (four) numbers of logging operation engineers of OIL at the supplier's Training School for a minimum period of 02 (Two) weeks. Duration of the training period, location of training etc. should be clearly specified in the bid document.	
1.4	MAINTENANCE ENGINEERS' TRAINING:	
a.	This should include detailed theoretical and practical training on the logging system hardware & software, downhole tools (including sonde disassembly) supplied with the unit, Hydraulic and Pneumatic systems for operation, troubleshooting & repair of the operator's winch and power generating subsystems of the Logging unit in addition to the regular curriculum for Maintenance Engineers' Training Course at the supplier's Training School. Duration of the training period, locations of training and prerequisite of the trainees, if any, should be clearly specified in the bid document. The successful bidder will have to arrange for a training program for 02 (two) numbers of logging maintenance engineers of OIL at the supplier's Training School for a minimum period of 02 (Two) weeks.	

Clause No.	Clause Description	Bidder's Response
	Duration of the training period, location of training etc. should be clearly specified in the bid document.	
1.5	LOG DATA PROCESSING, ANALYSIS AND INTERPRETATION TRAINING:	
a.	The bidder is required to provide training on data processing and interpretation of log data of offered downhole tool and software modules at the Supplier's Training School. Duration of the training period, locations of the training, and prerequisite of the trainees, if any, etc. should be clearly specified in the bid. The successful bidder will have to arrange for a training program for 02 (two) numbers of log data processing & interpretation engineers of OIL at the supplier's Training School for a minimum period of 02 (Two) weeks. Duration of the training period, location of training etc. should be clearly specified in the bid document.	
1.6	LOGISTICS ENGINEERS' TRAINING:	
a.	The successful bidder will have to arrange for a training program for 02 (two) numbers of Logistics Engineers of OIL at the supplier's Training School for a minimum period of 02 (Two) weeks. Duration of the training period, location of training etc. should be clearly specified in the bid document. Training shall be Imparted on Maintenance, Working Principles and Troubleshooting of the following systems / items / components used in the Cased Hole Logging Unit amongst other relevant subjects –	
(i)	Truck Engine and its Electronic control system	
(ii)	Transmission, PTO, Transfer Case (if any) and their control systems.	

Clause No.	Clause Description	Bidder's Response
(iii)	Front & Rear Suspension, Front & Rear Axles, Differentials, Brake, ABS, Steering, Electrical System, Pneumatic System etc. of the offered Truck.	
(iv)	Truck Engine exhaust aftertreatment system including regeneration, troubleshooting, etc.	
(v)	Complete Hydraulic system (as per hydraulic schematics of the unit) for logging operation including all Hydraulic Pump(s), Hydraulic Motors, Torque Hub(s), etc. of the hydraulic system.	
(vi)	Electrical / electronic control systems for operation of hydraulic winch and all other hydraulic components and its maintenance.	
(vii)	Diagnostic system (if any) for vehicle and hydraulics.	
b.	Note: Immediately after completion of the Logistics Engineers' Training , the same team of 02 (two) Logistics Engineers from OIL will carry out the Phase – 1 Inspection (mentioned in Clause No. 2.3 below) of the Inspection cum Acceptance process.	
2.0	INSPECTION CUM ACCEPTANCE:	
2.1	After finalizing the tentative readiness of the equipment, the successful bidder should communicate the proposed inspection schedule to Oil India Limited (OIL), with confirmed date for inspection, at least three months in advance. OIL, in turn, will confirm the scheduled date of visit of its personnel one month in advance to the successful bidder.	
2.2	The pre-shipment inspection of the equipment shall be carried out in 02 (two) phases:- Phase – 1 : For Automobile and Hydraulic Section & Phase – 2 : For Logging Section Both the phases of inspection shall be carried out at the supplier's premises by a team of executives from OIL as detailed in below clauses.	

Clause No.	Clause Description	Bidder's Response
	It is to be noted that immediately after completion of the Logistics Engineers' Training (mentioned in Clause No. 1.6 above), same team of 02 (two) Logistics Engineers from OIL will carry out the Phase – 1 Inspection.	
2.3	INSPECTION PHASE – 1: <u>Automobile and Hydraulic Section:</u>	
a.	The supplier shall facilitate pre-dispatch inspection of the Cased Hole Logging unit at their plant/ works for a minimum period of 01 (One) week by 02 (Two) numbers of Logistics Engineers from OIL. OIL will bear the expenses towards traveling, living and accommodation etc. of the OIL's inspection team. The bidder shall mention the period of inspection cum acceptance process of OIL's inspection team in the technical bid.	
b.	The inspection cum acceptance process will include the following minimum tasks / steps:	
(i)	Physical verification / inspection of all the items / fittings / accessories as per the Purchase Order (related to the Automobile Section & Hydraulic Section only), including documentation such as Spare Parts Catalogue with Part Numbers and Workshop & Service Manual etc., Make & Model of Truck chassis, Type Approval Certificate of vehicle, etc. as per tender / Purchase Order. The supplier shall arrange driver and operator, weighing facility and any other infrastructure during the process of inspection as and when required during the inspection.	
(ii)	Verification of all certificates and other documents related to the unit as per tender / Purchase Order.	
(iii)	Operational testing of the Truck and the complete hydraulic system.	
(iv)	Supplier shall have to take note of any minor modification(s) for operational & safety requirement suggested by the Phase – 1 Inspection team and comply with the same at no extra cost to OIL.	

Clause No.	Clause Description	Bidder's Response
(v)	The inspection report would be prepared at the end of the Phase – 1 inspection process and jointly signed by both the parties (OIL and the supplier).	
(vi)	Supplier shall confirm in writing compliance of all the points raised in the inspection report as well as any other subsequent additions/changes, following deliberation with the Phase – 1 Inspection team after the team's arrival at Duliajan, Assam.	
2.4	INSPECTION PHASE – 2 : <u>Logging Section:</u>	
a.	The pre-shipment inspection of the equipment shall be carried out at the supplier's premises by a team of 02 (Two) executives from OIL as mentioned below.	
b.	The supplier shall facilitate pre-dispatch inspection of the logging unit at their Plant/Works for a minimum period of 03 (Three) weeks by 2 (Two) Logging Engineers from OIL. Passage and living expenses, including accommodation charges of OIL Executives nominated to carry out the inspection work will be borne by OIL. The period of inspection and acceptance process may accordingly be specified by the bidders in the bid documents.	
c.	The inspection cum acceptance process will include the following minimum tasks / steps:	
(i)	Physical verification of all the items as per the Purchase Order.	
(ii)	Verification of Unique Identification Number (UID) of all the tools/equipment.	
(iii)	Functional testing of the logging system, logging tools and accessories to their rated specifications.	
(iv)	Verification of all records of Pressure, Temperature, Shock and Vibration testing carried out after manufacture of the logging tools as applicable.	

Clause No.	Clause Description	Bidder's Response
(v)	Pulling capacity of the winch up to 8500 lbs need to be tested.	
(vi)	Checking of Export Quotes / Invoices and discussing necessary modalities for safe transportation of the goods.	
(vii)	Technical discussions on any deviations from the Purchase order and provide feedback to OIL with technical justifications for approval of the order amendment by the competent authority.	
(viii)	Inspection of Training Manuals and other Engineering Documents.	
(ix)	The Inspection cum Acceptance report would be prepared jointly and signed by representatives of both the parties at the end of the inspection process.	
(x)	The supplier shall confirm in writing compliance of all the points raised in the minutes of inspection as well as any other subsequent additions/changes, following deliberations with the Inspectors after the Inspectors arrival at Duliajan, Assam.	
(xi)	After completion of the Phase – 2 inspection, the supplier shall ensure that only those items bearing the verified and accepted UIDs are dispatched to Oil India Limited (OIL) upon receipt of OIL's dispatch advice. Upon receipt of the consignment, OIL shall again cross-check the items against the verified UIDs/ OIL seals.	
(xii)	No item other than those inspected and accepted will be entertained or accepted by OIL. If the bidder delivers any item that was not inspected and accepted by OIL's team, the bidder shall replace such item with the originally inspected and accepted one at no additional cost to OIL. All expenses incurred for replacement, including transportation and handling, shall be borne by the bidder. Until the originally inspected and accepted items are received by OIL, the installation and commissioning of the logging unit shall be deemed incomplete.	
(xiii)	In the event that the successful bidder communicates an inspection schedule to OIL, and upon OIL's team reaching the designated inspection site at the agreed time, the	

Clause No.	Clause Description	Bidder's Response
	inspection cannot be carried out due to reasons attributable to the supplier, resulting in cancellation or postponement, then the bidder shall bear all expenses incurred by OIL . This includes to-and-fro travel expenses, boarding and lodging charges, and any other associated costs for the OIL inspection team during the scheduled inspection period.	

PRE-QUALIFYING CRITERIA (PQC)

The bids shall broadly conform to the specifications and terms and conditions given in this bid document. Bids shall be rejected in case the items offered do not conform to required parameters stipulated in the technical specifications and to the respective international/national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected.

(A.1) PQC - TECHNICAL:

Clause 1.1	<u>If the bidder is the Original Equipment Manufacturer (OEM)</u> The Bidder should be original equipment manufacturer (OEM) of Cased hole Logging tools with own associated Surface data acquisition system and data acquisition software. The bidder should satisfy the following clauses and documentary evidence should be enclosed along with the techno-commercial bid:																						
Clause 1.1(a)	<u>Manufacturing Experience:</u> [i] The Bidder should have minimum 10 (ten) years of Experience in Manufacturing of at least four (4) prescribed set of logging tools (Table A) with own Surface data acquisition system and data acquisition software to run the below-mentioned tools (Table A). <u>Table - A</u> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Tools & Surface data acquisition system and its acquisition software.</th><th>No. of tools / system / software supplied in the past</th></tr> </thead> <tbody> <tr> <td>1</td><td>PCE (Pressure Control Equipment)</td><td>1</td></tr> <tr> <td>2</td><td>GR/CCL (Gamma Ray/Casing Collar Locator) Combination tool</td><td>2</td></tr> <tr> <td>3</td><td>Multifinger Imaging Tool (MIT) or equivalent (24 or 40 or 60 Finger).</td><td>1</td></tr> <tr> <td>4</td><td>BST-Size 10, Model E-4 or Equivalent Setting Tool Or BST-Size 20, Model E-4 or Equivalent Setting Tool</td><td>1</td></tr> <tr> <td>5</td><td>Free Point Indicator Tool</td><td>2</td></tr> <tr> <td>6</td><td>Casing Collar Locator</td><td>18</td></tr> </tbody> </table> (ii) The bidder (OEM) <u>must have</u> 10 (ten) years of Experience in Manufacturing /Assembling of Cased Hole wireline logging unit.		Sl. No.	Tools & Surface data acquisition system and its acquisition software.	No. of tools / system / software supplied in the past	1	PCE (Pressure Control Equipment)	1	2	GR/CCL (Gamma Ray/Casing Collar Locator) Combination tool	2	3	Multifinger Imaging Tool (MIT) or equivalent (24 or 40 or 60 Finger).	1	4	BST-Size 10, Model E-4 or Equivalent Setting Tool Or BST-Size 20, Model E-4 or Equivalent Setting Tool	1	5	Free Point Indicator Tool	2	6	Casing Collar Locator	18
Sl. No.	Tools & Surface data acquisition system and its acquisition software.	No. of tools / system / software supplied in the past																					
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2	GR/CCL (Gamma Ray/Casing Collar Locator) Combination tool	2																					
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5	Free Point Indicator Tool	2																					
6	Casing Collar Locator	18																					

	Or, If the bidder obtained the Cased Hole Wireline unit from a third party, that party <u>must have 10 (ten) years</u> of Experience in Manufacturing / Assembling of Cased hole wireline logging unit. (iii) Documentary evidence for the above should be provided for sale of 01 (One) quantity each of Wireline logging unit, Listed Logging Tools and surface system with data acquisition software (Table - A). (iv) If the Manufacturer/Assembler of the Cased hole Wireline Logging Unit is from a third party, then the Bidder must provide a back-up authority letter authorizing the Bidder to submit the bid. NOTE 1: For above, copy of purchase order for sale of Wireline logging unit, Listed Logging Tools and Surface system with data acquisition software (Table - A) provided should not be less than 10 (ten) years from original bid closing date of this tender.
Clause 1.1(b)	<u>Supply Experience:</u> (i) Bidder must have <u>sold the prescribed set of Tools, system, software mentioned in Table - A to companies other than its own parent/subsidiary/co-subsidiary/sister subsidiary companies</u> which are in the business of 'exploration & production of hydrocarbons' and/or 'Oil Field Service Providers' during the last 10 (ten) years. (ii) The Bidder itself or the third-party Manufacturer / Assembler of Cased hole wireline logging unit must have <u>sold 01 (One) number of Cased-Hole Wire line Logging Unit or Open Hole Logging Unit</u> to companies <u>other than its own parent/subsidiary/co-subsidiary/sister subsidiary companies</u> which are in the business of 'exploration & production of hydrocarbons' and/or 'Oil Field Service Providers' during the last 10 (ten) years. NOTE 2: The Purchase Orders/contracts date need not be within 10 (ten) years preceding original bid closing date of this tender. However, the execution of supply must be within 10 (ten) years preceding the original bid closing date of this tender. In the event of any extension to the bid closing date of the tender, the original scheduled bid closing date shall be considered for evaluation of BEC clauses.
Clause 1.1(c)	The Purchase Orders mentioned above must have been affected to a country other than the OEM's country of origin. Note : For clauses 1.1(a), 1.1 (b) & 1.1 (c) above, the reckoned period shall be the period prior to the date of original closing of the techno-commercial bid of this tender.
Clause 1.1(d)	<u>Documentary Evidence:</u> Documentary evidence in respect of the above should be submitted with the bid in the form of copies of relevant Purchase Orders along with the following documents: - (i) Dispatch documents (Invoice, Bill of Lading/Consignment, etc.) and

	(ii) Successful Commissioning Report																				
Clause 1.1(e)	<u>Performance Certification:</u> The bidder or Manufacturer / Assembler of Cased hole wireline logging unit must furnish certificates / documents (which are to be submitted along with the bid) from at least 01 (one) of their customers certifying the satisfactory functioning of the Cased hole Logging Tools and Logging Units sold to them by the bidder or Manufacturer / Assembler of Cased hole wireline logging unit. In case such documents are genuinely of confidential in nature or cannot be shared, then either the CEO or the Company Secretary of that bidder or Manufacturer / Assembler of Cased hole wireline logging must give an undertaking to the effect that their company has executed /completed such Orders and the Cased hole Logging Tools / Cased hole wireline logging units sold by their company are performing to the best of satisfaction of the customers/clients. Experience against clauses 1.1 (a) & 1.1 (b) to be submitted in the following format separately <table><tr><td>Description</td><td>Name of the Company with address, phone & Fax number to whom equipment were supplied</td><td>Purchase Order No. and date (Refer NOTE 2)</td><td>Qty. Supplied & date of supply (Refer NOTE2)</td><td>Details of Documentary evidence</td></tr><tr><td>Cased hole Logging Unit</td><td></td><td></td><td></td><td></td></tr><tr><td>Logging tools</td><td></td><td></td><td></td><td></td></tr><tr><td>Surface acquisition system and software for Cased hole downhole tools</td><td></td><td></td><td></td><td></td></tr></table>	Description	Name of the Company with address, phone & Fax number to whom equipment were supplied	Purchase Order No. and date (Refer NOTE 2)	Qty. Supplied & date of supply (Refer NOTE2)	Details of Documentary evidence	Cased hole Logging Unit					Logging tools					Surface acquisition system and software for Cased hole downhole tools				
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Logging tools																					
Surface acquisition system and software for Cased hole downhole tools																					
Clause 1.1(f)	Bids of those bidders who themselves do not meet the experience criteria as stipulated in BEC Clause no. 1.1 (a) and 1.1 (b) above can also quote under the categories listed below: (i) Eligibility criteria in case bids are submitted on the basis of technical experience of the parent/subsidiary company: Offers of those bidders who themselves do not meet the experience criteria as stipulated in clauses 1.1 (a) & 1.1 (b) above can also be considered provided the bidder is a subsidiary company of the parent company [supporting company, which holds more than fifty percent of the paid-up equity share capital of the bidder] who fulfils the experience criteria. Similarly, bid from parent company can also be considered on the strength of requisite experience of its subsidiary [supporting company, in which the bidder holds more than fifty percent of the paid-up equity share capital]. However, the parent/subsidiary company (as the case may be) of the bidder should on its own meet the experience as stipulated in the BEC and should not rely for																				

	meeting the experience criteria on its sister subsidiary/co-subsidiary company or through any other arrangement like Technical Collaboration agreement. In case of bidder who is a subsidiary company dependent upon the experience of the parent company or vice-versa with a view to ensure commitment and involvement of the parent/subsidiary company (Supporting Company) for successful execution of the contract, the participating bidder should enclose a Parent/Subsidiary Agreement (as per PROFORMA-N) between the parent and the subsidiary company (Bidder) or vice-versa and Parent/Subsidiary Guarantee (as per as PROFORMA-O) from the parent/subsidiary company to OIL for fulfilling the obligation under the Agreement, along with the technical bid. (ii) Eligibility criteria in case bid is submitted on the basis of technical experience of sister-subsidiary/co-subsidiary company: Offers of those bidders who themselves do not meet the technical experience criteria stipulated in (a) and (b) above can also be considered based on the experience of their Sister Subsidiary/Co-Subsidiary company within the ultimate parent/holding company provided that the sister subsidiary/co-subsidiary company and the bidding company are both wholly owned subsidiaries of an ultimate parent/holding company either directly or through intermediate wholly owned subsidiaries of the ultimate parent/holding company or through any other wholly owned subsidiary company within the ultimate parent/holding company. Documentary evidence to this effect to be submitted by the ultimate parent/holding company along with the technical bid. The bidding company can draw on the experience of their multiple subsidiary sister/Co-subsidiary company(ies) specializing in each sphere of activity, i.e. (a) manufacture/supply (b) installation and commissioning (c) servicing and maintenance to meet the technical experience criteria mentioned in clauses (a) and (b) above. Provided that with a view to ensure commitment and involvement of the ultimate parent/holding company for successful execution of the order, the participating bidder must submit an agreement, as per format furnished vide Proforma-Q, between them & their ultimate parent/holding company, along with the technical bid. (iii) In the situations mentioned in eligibility clauses (i) and (ii) above, following conditions are required to be fulfilled/documents to be submitted: A certificate from the statutory Auditor of the bidding company to establish the relationship and equity percentage holding between the bidding company and the supporting company. The certificate should be duly concurred/endorsed by the Company
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	Secretary or one of the Directors of the company concerned. Note: The above certificate should not be more than 30 days old as on the original bid closing date. The supporting company shall not be allowed to submit their separate/independent bid against the tender. In such case, all such bids shall be rejected. Also, bids having technical support from the same entity shall be rejected. The Manufacturer of Tools, Surface data acquisition system and related acquisition software must authorize the Bidder to sell their products and services (viz. Installation & Commissioning services, Training services, etc.) mentioned in this tender document and the bidder must submit a back-up authority letter in this regard from the Manufacturer concerned in its techno-commercial bid.
Clause 1.1(g)	1.0 If the bidder or its OEM have successfully supplied logging units with tools and accessories to Oil India Limited in the past and whose past performance has been satisfactory would be considered as established source of supply and hence need not satisfy clause as stipulated in the Para 1.1 (a), (b), (c), (d), (e) and (f) above. However, the bidders/OEMs are required to submit a copy of the Purchase Order and Commissioning Report along with the Techno-commercial bid. Also, they shall quote logging unit with tools and accessories of the same OEM whose past performance was found satisfactory. NOTE3: The bidder must give an undertaking to provide immediate support / solutions to any issues related to Logging Units and Tools. 2.0 Wherever two or more sets of the same equipment/item are required, the bidders must quote all the sets of the same item that are identical in all respects i.e. the same category of equipment must be of same make, model and compatible in all respects. The bidder must quote accordingly as mentioned in this clause. 3.0 Bids with qualifying conditions like “the product is under development and would be supplied by the time etc.,” will be summarily rejected. Surface Logging System: The offered surface logging system must be capable of performing the logging operations and services with the type of tools as described in the Clause 13.1 to 13.6 of ANNEXURE-B in this document. The bidder must confirm compliance on this point in its bid.

(A.2) PQC - FINANCIAL:

Clause 1.0	The bidder shall have an annual financial turnover from Operations of minimum 50 % of Tender Value during any of the preceding3 (Three) financial/ accounting years reckoned from the
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	original bid closing date of the tender. {Annual Financial Turnover of the bidder from operations shall mean - "Aggregate value of the realization of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91). }
Clause 2.0	"Net Worth" of the bidder must be positive for the financial/accounting year just preceding to the original Bid Closing Date of the Tender. { Net worth shall mean: "Share capital + Reserves created out of profits and securities Premium - Aggregate value of accumulated losses (excluding revaluation reserves) - deferred expenditure - Miscellaneous Expenditure to the extent not written off and carried forward Loss - Reserves created out of write back of depreciation and amalgamation".}
Clause 3.0	Considering the time required for preparation of Financial Statements, if the last date of preceding financial/accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial/accounting year are not available with the bidder, then the financial turnover of the previous three financial/accounting years excluding the preceding financial/accounting year will be considered. In such cases, the Net worth of the previous financial/accounting year excluding the preceding financial/accounting year will be considered. However, the bidder has to submit an affidavit/ undertaking (PROFORMA - 8) certifying that 'the balance sheet/Financial Statements for the financial year (as applicable) has actually not been audited so far'. Note: a. For proof of Annual Turnover & Net worth any one of the following documents must be submitted along with the technical bid:- i. A certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual Turnover & Net worth as per format prescribed in (PROFORMA -9). OR b. Financial Statements (Audited Balance Sheet & Profit & Loss account along with all the schedules/notes forming part of the Balance sheet & Profit and Loss Account) audited by the auditors appointed under the statute like Companies Act etc. wherever applicable. In cases where the bidding/ supporting company (as applicable) are not required to prepare Audited Financial Statements as per the Law of the Land of the country of the bidding/supporting company as applicable, the

	bidder shall provide documentary evidence for the same along with a certificate from a practicing Chartered Accountant or equivalent to this effect. The bidder must also submit the financial statement as per the accounting standards of the country of the bidding/supporting company as the case may be, duly certified by the practicing-chartered accountant or equivalent. In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/ State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.
Clause 4.0	In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date on which the Audited Balance Sheet and Profit & Loss Account is signed. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.
Clause 5.0	In case the Bidder is subsidiary company (should be a wholly owned subsidiary of the parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ultimate parent/holding company, then following documents need to be submitted: i. Turnover of the parent/ultimate parent/holding company (supporting company) should be in line with Para A.2 (1.0) above. ii. Net Worth of the parent/ultimate parent/holding company (supporting company) should be positive in line with Para A.2 (2.0) above iii. Corporate Guarantee (PROFORMA - 10) on parent/ultimate parent/holding company's (supporting company) letter head signed by an authorized official undertaking that they would financially support their wholly owned subsidiary company for executing the project/job in case the same is awarded to them. iv. A certificate from the Statutory Auditor of the bidding company to establish the relationship and equity percentage holding between bidding company and the supporting company. The certificate should be duly concurred/endorsed by the Company Secretary or one of the Directors of the company concerned.

SECTION – D - DELIVERY

1. Delivery required against this tender is within 12 (twelve) months from the date of firm placement of purchase order. The date of receipt of delivery of goods at Duliajan, Assam shall be considered as delivery date. The delivery of goods at Duliajan, Assam as mentioned in the scope is divided into following 3 packages

Package 1 consists of **items with S/N 1,2,3 and 10 of Appendix 1** i.e. Logging Unit, Rig up accessories and Pressure control equipment. Any other spares and consumables required during I&C should also be considered in Package 1 by the bidder.

Package 2 shall consists of **items with S/N 4,5,6,7,8,9,11 and 13 of Appendix 1**, i.e., logging tools and accessories, and technical manuals and documentation.

Package 3 shall consist of **items with S/N 12 and 14 of Appendix 1**, i.e., spares and consumables and Automobile Unit spares under **Clause 9.0** of Section-A.

NOTE: For item(s) in package 2 and package 3, if any item found undelivered during the process of joint verification, OIL at its discretion can declare it either '**Short Shipped**' or '**Delayed Delivery**' and accordingly as per clause 2.0 under SECTION – F, LD will be applied.

2. Bidder must comply the above schedule and confirm in their Techno-Commercial bid. Bids not meeting the time schedule as mentioned in the tender shall be summarily rejected.

*****END OF SECTION-D*****

SECTION – E - INSTALLATION AND COMMISSIONING

- 1.0. Installation and commissioning** include commissioning of the logging unit, testing of all the downhole tools in the well and testing of all other goods supplied. The bidder will have to depute commissioning engineers to OIL, Duliajan, Assam having good communication capability in English and with minimum of **five years' experience** in operations, maintenance and data processing and interpretation for their respective domains for commissioning of supplied items. The bidder must quote lump sum commissioning charges. The commissioning charges quoted will be considered for bid evaluation.
- 1.1.** Bidder shall have to bear all expenses related to Train/Air/Sea travel, local transportation expenses, transit insurance and boarding and lodging expenses etc., for their personnel deployed during commissioning.
- 1.2.** Immediately after receipt of **all** the materials by OIL at Duliajan, Assam a written advice will be issued to the supplier asking them to commence Opening of delivered containers, crates, and packages in the presence of OIL's commissioning team and subsequent joint checking with representatives of the bidder of supplied items with respect to Purchase Order for discrepancy if any. All arrangements for opening of crates and packages will be done by OIL. The process of joint verification should commence within **1 month** of issuing of written advice.

During Joint inspection, if any item/tool/equipment is not found as per order, that item/tool/equipment may be considered as **short shipped, and I&C may commence at OIL's discretion**. If the item/tool/equipment is considered delayed, I&C shall not commence and LD shall be levied on the entire order value as per **Clause 2.0 (LD) of SECTION-F**.

After satisfactory joint verification, OIL will issue a written advice to start Installation and Commissioning process immediately.

- 1.3.** Commissioning of the Logging Unit along with all the downhole tools and other accessories is to be completed within 03 (three) months from the date of receipt of such advice from OIL (this three months period excludes the waiting time for well readiness).

1.4. Scope of installation and commissioning should include

- i. Shop / Field calibration of all the supplied tools, testing of logging unit and all the downhole tools in OIL's oil/gas wells by carrying out actual logging operations. Each downhole tools must perform at least 02 nos. of successful logging operations in two different wells as required by OIL. In case of unavailability of wells, successful surface testing of tools at workshop may also be considered for the purpose of commissioning however it shall be at the sole discretion of OIL.
- ii. During Installation and commissioning, if any item/tool/equipment is found not working as expected, OIL at its discretion may continue and complete the Installation and commissioning and consider that item as **short shipped**.
- iii. Setup of Data processing system and processing of acquired well data during tool commissioning. The system shall be commissioned by processing two sets of successfully recorded log data relevant to each module of the processing software. Commissioning of Interpretation software is to be done by the **experts in person** at Well Logging Department.

1.5. Supply of short-shipped items is to be arranged and to be delivered at Duliajan, Assam, including Customs Clearance etc. by the supplier or their authorized representatives at their cost within 03 (three) months from the date of successful completion of commissioning of the entire equipment.

1.6. In the event any of the Tools, Equipment, materials supplied under the Purchase Order is lost or destroyed while commissioning of the unit/equipment/tool and such loss or destruction occurs other than as a result of Gross Negligence on the part of the Supplier, installation and commissioning will not be hampered and may be considered completed if surface testing of the tool is successful and OIL shall release the balance payment due to the Supplier.

In the event the tools/equipment is lost/destroyed, OIL shall have the option to seek replacement of such lost/destroyed tool /equipment at the same rates, terms and conditions by placing a fresh Purchase Order. Bidder must comply and confirm the same in their Techno-Commercial bid. Bids not accepting this condition shall be summarily rejected.

- 1.7. For all other cases, LD shall be recovered on the entire ordered value of material and installation & commissioning charge.
- 1.8. The Installation and Commissioning report will be prepared jointly and signed by the representatives of both the parties at the end of successful completion of Installation and Commissioning process.

*****END OF SECTION-E*****

SECTION – F – WARRANTY and LIQUIDATED DAMAGE

1.0 WARRANTY

- 1.1 Oil India Limited (OIL) reserves the right to inspect, test and wherever necessary, reject the goods after arrival of the goods at site, only if the said rejection is attributed to be the responsibility of the Bidder. It shall, in no way be limited or waived by reason of the goods being previously inspected, tested and passed by OIL or its representatives prior to the goods shipment from the country of origin.
- 1.2 Materials supplied as per the Purchase Order should be under warranty by the suppliers **for a minimum period of 12 (twelve) months from the date of successful completion of installation and commissioning of the entire equipment at site or 18 (eighteen) months from the date of delivery, whichever is earlier**. Any item / sub item failed during the above mentioned warranty period is to be replaced / repaired within 03 (three) months from the date of notification of such failure. The warranty of the repaired / replaced items shall be correspondingly extended by a period equal to that from the date of failure to the date of commissioning of the replaced/repaired item. In order to keep the equipment fully operational, all spares and accessories required during the warranty period is to be arranged at site by the suppliers or their authorized representatives, within 03 (three) months, at their cost (including Customs Clearance etc.). In the event the Supplier fails to repair/replace the faulty item within three (3) months, penalty @ 0.5% of the material value of the affected unit/tools/equipment per week or on part thereof subject to a maximum of 5% of the value of affected item shall be levied and warranty for such items shall be extended accordingly. This penalty amount shall be recovered through deduction from subsequent payment invoices due to the supplier, by withholding payments otherwise due under the Purchase Order, from performance security amount submitted by the supplier or by set-off against amounts payable under other running contracts with the supplier.
- 1.3 For the supplied material, if the warranty certificate is not provided, the commissioning shall be deemed incomplete until the same is submitted.

2.0 LIQUIDATED DAMAGE (LD)

2.1 LD shall be applicable @ 0.5% per week or on part thereof of the entire ordered value of material and installation & commissioning charge or delayed package value (as the case may be) subject to a maximum of 7.5 % for the following two cases:

- (a) Delivery not completed within stipulated delivery period as per Section D: Delivery.
- (b) Installation and Commissioning (I&C) not completed within stipulated I&C period as per Clause (1.0 to 1.7) of Section-E.

2.2 LD shall be applicable on the entire order value of the package (For package information please refer clause 1 of SECTION – D – DELIVERY) and not on the value of the undelivered portions (even though a billing breakup has been approved).

2.3 In case item(s) of Package 1 is delayed Order shall be deemed incomplete, and Installation and commissioning shall not commence and LD being applied on the entire order value as per **Clause 2.1 of Section F**.

2.4 In case item(s) of Package 2 or Package 3 are declared 'delayed delivery', then LD shall be applied on the entire order value as per **Clause 2.1 of Section F**.

2.5 In case any item(s) of Package 2 or Package 3 are declared short shipped, LD shall be applied as mentioned in the table below.

FOR SHORT-SHIPPED ITEMS, IF THE BIDDER FAILS TO DELIVER THE ITEM AT DULIAJAN, LD WILL BE LEVIED AS PER FOLLOWING	
0 to 3 Months from the	No LD will be levied.

date successful completion of installation and commissioning	
3 to 6 Months from the date successful completion of installation and commissioning	LD will be levied only on that package value to which the item belongs as per clause 2.1 of LD..
Beyond 6 from the date successful completion of installation and commissioning	LD will be levied on entire purchase order value as per clause 2.1 of LD.

- 2.6 Both Seller and Purchaser agree that the above percentages of LD are genuine pre estimates of the loss/damage which the Purchaser would have suffered on account of delay/breach on the part of the Seller and the said amount will be payable on demand without there being any proof of the actual loss or damage caused by such breach/delay. Decision of the Purchaser in the matter of applicability of price reduction shall be final and binding.

*****END OF SECTION-F*****

SECTION – D - DELIVERY

1. Delivery required against this tender is within 12 (twelve) months from the date of opening of LC. Date of clean Bill of Lading to OIL shall be considered as delivery date. The delivery of goods as mentioned in the scope is divided into following 3 packages

Package 1 consists of **items with S/N 1,2,3 and 10 of Appendix 1** i.e. Logging Unit, Rig up accessories and Pressure control equipment. Any other spares and consumables required during I&C should also be considered in Package 1 by the bidder.

Package 2 shall consists of **items with S/N 4,5,6,7,8,9,11 and 13 of Appendix 1**, i.e., logging tools and accessories, and technical manuals and documentation.

Package 3 shall consist of **items with S/N 12 and 14 of Appendix 1**, i.e., spares and consumables and Automobile Unit spares under **Clause 9.0** of Section-A.

NOTE: For item(s) in package 2 and package 3, if any item found undelivered during the process of joint verification, OIL at its discretion can declare it either '**Short Shipped**' or '**Delayed Delivery**' and accordingly as per clause 2.0 under SECTION – F, LD will be applied.

2. Bidder must comply the above schedule and confirm in their Techno-Commercial bid. Bids not meeting the time schedule as mentioned in the tender shall be summarily rejected.

*****END OF SECTION-D*****

SECTION – E - INSTALLATION AND COMMISSIONING

- 1.0. **Installation and commissioning** include commissioning of the logging unit, testing of all the downhole tools in the well and testing of all other goods supplied. The bidder will have to depute commissioning engineers to OIL, Duliajan, Assam having good communication capability in English and with minimum of **five years' experience** in operations, maintenance and data processing and interpretation for their respective domains for commissioning of supplied items. The bidder must quote lump sum commissioning charges. The commissioning charges quoted will be considered for bid evaluation.
- 1.1. Bidder shall have to bear all expenses related to Train/Air/Sea travel, local transportation expenses, transit insurance and boarding and lodging expenses etc., for their personnel deployed during commissioning.
- 1.2. Immediately after receipt of **all** the materials by OIL at Duliajan, Assam a written advice will be issued to the supplier asking them to commence Opening of delivered containers, crates, and packages in the presence of OIL's commissioning team and subsequent joint checking with representatives of the bidder of supplied items with respect to Purchase Order for discrepancy if any. All arrangements for opening of crates and packages will be done by OIL. The process of joint verification should commence within **1 month** of issuing of written advice.

During Joint inspection, if any item/tool/equipment is not found as per order, that item/tool/equipment may be considered as **Short Shipped, and I&C may commence at OIL's discretion**. If the item/tool/equipment is considered delayed, I&C shall not commence and LD shall be levied on the entire order value as per **Clause 2.0 (LD) of SECTION-F**.

After satisfactory joint verification, OIL will issue a written advice to start Installation and Commissioning process immediately.

- 1.3. Commissioning of the Logging Unit along with all the downhole tools and other accessories is to be completed within 03 (three) months from the date of receipt of such advice from OIL (this three months period excludes the waiting time for well readiness).

1.4. Scope of installation and commissioning should include

- i. Shop / Field calibration of all the supplied tools, testing of logging unit and all the downhole tools in OIL's oil/gas wells by carrying out actual logging operations. Each downhole tools must perform at least 02 nos. of successful logging operations in two different wells as required by OIL. In case of unavailability of wells, successful surface testing of tools at workshop may also be considered for the purpose of commissioning however it shall be at the sole discretion of OIL.
- ii. During Installation and commissioning, if any item/tool/equipment is found not working as expected, OIL at its discretion may continue and complete the Installation and commissioning and consider that item as **short shipped**.
- iii. Setup of Data processing system and processing of acquired well data during tool commissioning. The system shall be commissioned by processing two sets of successfully recorded log data relevant to each module of the processing software. Commissioning of Interpretation software is to be done by the **experts in person** at Well Logging Department.

1.5. Delivery of short-shipped items is to be arranged, including Customs Clearance etc. by the supplier or their authorized representatives at their cost within 03 (three) months from the date of successful completion of commissioning of the entire equipment.

1.6. In the event any of the Tools, Equipment, materials supplied under the Purchase Order is lost or destroyed while commissioning of the unit/equipment/tool and such loss or destruction occurs other than as a result of Gross Negligence on the part of the Supplier, installation and commissioning will not be hampered and may be considered completed if surface testing of the tool is successful and OIL shall release the balance payment due to the Supplier.

In the event the tools/equipment is lost/destroyed, OIL shall have the option to seek replacement of such lost/destroyed tool /equipment at the same rates, terms and conditions by placing a fresh Purchase Order. Bidder must comply and confirm the same in their Techno-Commercial bid. Bids not accepting this condition shall be summarily rejected.

- 1.7. For all other cases, LD shall be recovered on the entire ordered value of material and installation & commissioning charge.
- 1.8. The Installation and Commissioning report will be prepared jointly and signed by the representatives of both the parties at the end of successful completion of Installation and Commissioning process.

*****END OF SECTION-E*****

SECTION – F – WARRANTY and LIQUIDATED DAMAGE

1.0 WARRANTY

- 1.1 Oil India Limited (OIL) reserves the right to inspect, test and wherever necessary, reject the goods after arrival of the goods at site, only if the said rejection is attributed to be the responsibility of the Bidder. It shall, in no way be limited or waived by reason of the goods being previously inspected, tested and passed by OIL or its representatives prior to the goods shipment from the country of origin.
- 1.2 Materials supplied as per the Purchase Order should be under warranty by the suppliers **for a minimum period of 12 (twelve) months from the date of successful completion of installation and commissioning of the entire equipment at site or 18 (eighteen) months from the date of delivery, whichever is earlier**. Any item / sub item failed during the above mentioned warranty period is to be replaced / repaired and delivered within 03 (three) months from the date of notification of such failure. The warranty of the repaired / replaced items shall be correspondingly extended by a period equal to that from the date of failure to the date of commissioning of the replaced/repaired item. In order to keep the equipment fully operational, all spares and accessories required during the warranty period is to be delivered by the suppliers or their authorized representatives, within 03 (three) months, at their cost (including Customs Clearance etc.). In the event the Supplier fails to repair/replace the faulty item within three (3) months, penalty @ 0.5% of the material value of the affected unit/tools/equipment per week or on part thereof subject to a maximum of 5% of the value of affected item shall be levied and warranty for such items shall be extended accordingly. This penalty amount shall be recovered through deduction from subsequent payment invoices due to the supplier, by withholding payments otherwise due under the Purchase Order, from performance security amount submitted by the supplier or by set-off against amounts payable under other running contracts with the supplier.
- 1.3 For the supplied material, if the warranty certificate is not provided, the commissioning shall be deemed incomplete until the same is submitted.

2.0 LIQUIDATED DAMAGE (LD)

- 2.1 LD shall be applicable @ 0.5% per week or on part thereof of the entire ordered value of material and installation & commissioning charge or delayed package value (as the case may be) subject to a maximum of 7.5 % for the following two cases:
- (a) Delivery not completed within stipulated delivery period as per Section D: Delivery.
 - (b) Installation and Commissioning (I&C) not completed within stipulated I&C period as per Clause (1.0 to 1.7) of Section-E.
- 2.2 LD shall be applicable on the entire order value of the package (For package information please refer clause 1 of SECTION – D – DELIVERY) and not on the value of the undelivered portions (even though a billing breakup has been approved).
- 2.3 In case item(s) of Package 1 is delayed Order shall be deemed incomplete, and Installation and commissioning shall not commence and LD being applied on the entire Purchase Order value as per **Clause 2.1 of Section F**.
- 2.4 In case item(s) of Package 2 or Package 3 are declared 'delayed delivery', then LD shall be applied on the entire Purchase Order value as per **Clause 2.1 of Section F**.
- 2.5 In case any item(s) of Package 2 or Package 3 are declared short shipped, LD shall be applied as mentioned in the table below.

FOR SHORT-SHIPPED ITEMS, IF THE BIDDER FAILS TO DELIVER THE ITEM AT DULIAJAN, LD WILL BE LEVIED AS PER FOLLOWING	
0 to 3 Months from the date successful completion of installation and commissioning	No LD will be levied.

3 to 6 Months from the date successful completion of installation and commissioning	LD will be levied only on that package value to which the item belongs as per clause 2.1 of LD..
Beyond 6 from the date successful completion of installation and commissioning	LD will be levied on entire purchase order value as per clause 2.1 of LD.

- 2.6 Both Seller and Purchaser agree that the above percentages of LD are genuine pre estimates of the loss/damage which the Purchaser would have suffered on account of delay/breach on the part of the Seller and the said amount will be payable on demand without there being any proof of the actual loss or damage caused by such breach/delay. Decision of the Purchaser in the matter of applicability of price reduction shall be final and binding.

*****END OF SECTION-F*****

TECHNICAL EVALUATION CHECKLIST – LOGGING SECTION

Bidder need to furnish the checklist while submitting bid documents along with supportive documents. If anything is not captured in the checklist and is mentioned in the NIT, bidder needs to comply with all those clauses with supportive documents as mentioned in **SECTION- B**.

Tender No.			
Bidder's Name			
OIL NIT Clause No.	OIL NIT Clause Description	Bidder's Remarks (Complied / Not Complied / Deviation)	Relevant Page no. of the Bid to support Bidder's response
LOGGING SECTION			
	The logging trucks, tools and accessories offered against this bid must be latest and state-of-the art in the Industry with capability of trouble free data recording and seamless data transferring up to well depth of at least 6500 meters and must have been field proven for at least 1 year prior to bid closing date.		
	The bidder should also have proper R & D facilities for development and upgradation of their equipment.		
1.0 ELECTRICAL SYSTEM / EQUIPMENT:			

1.0 (i)	Adequate, stable electrical power generated by the truck's Hydraulic alternator (Marathon generator Magna Plus Model: 283PDL1766 or equivalent brand/model having minimum 20 kw capacity) for power requirement of the surface system, downhole tools, air-conditioners & all other electrical accessories in the logging unit. The hydraulic alternator of the truck is to be driven by a Power Take-off unit coupled to the truck transmission system.		
1.0 (ii)	The Alternator output voltage should be regulated within +/- 5 volt between no load and full load voltage.		
1.0 (iii)	Must be equipped with voltage and frequency monitor & control, over/under voltage and frequency protection.		
1.0 (iv)	The power generator must have automatic safety shut-down features.		
1.0 (v)	The electrical system must have a Power Distribution board inside logging cabin, with circuit breakers, power plant controls, and frequency, voltage and current meters.		
1.0 (vi)	A suitable power intake point is to be provided to feed power into the unit from external source. Flexible cable (Approx. 20 M in length) with suitable plugs for this purpose should be provided.		
1.0 (vii)	Electrical power outlets for internal accessories are to be provided		
1.0 (viii)	Exterior power outlets should be properly covered.		

1.0 (ix)	Color coded / Function coded truck electrical wiring and easily accessible for maintenance and service purposes must be provided. Entire wiring should be well documented.		
1.0 (x)	A back up electrical power source of minimum 8 KW should be provided. Following backup power system should be provided with manual switchover connection. One Diesel Generator, low noise/silent (Preferably Cummins Onan Model 8HDKAU-41934R having 8KW capacity) mounted on the unit in addition to the main hydraulic alternator.		
1.0 (xi)	There should be provision of toggle switch to toggle between the power sources (Hydraulic Alternator and Backup diesel Generator) instead of manually swapping out power cables.		
1.0 (xii)	There should be provision of starting the backup diesel generator remotely from the logging cabin.		
2.0 LOGGING CABIN / OPERATOR'S COMPARTMENT:			

2.0 (i)	The logging cabin must have a dual sliding window with toughened, shatterproof safety, antiglare transparent glass in front of the operator console area to provide unrestricted view of operations. Roll up tinted window shades is to be provided to minimize sunlight or external light glare through the windows.		
2.0 (ii)	Cabin roof should be suitably designed to drain out the rain water.		

2.0 (iii)	Logging cabin should be fitted with at least three (03) numbers roof mounted air conditioners, each of minimum 13500 btu.		
2.0 (iv)	Proper metallic cover should be provided to protect the air conditioners from external damage.		
2.0 (v)	Temperature and humidity indicator are to be provided inside the cabin.		
2.0 (vi)	Cabin pressurization system should be provided to pump filtered fresh air in to the logging cabin for preventing dust entry.		
2.0 (vii)	Three nos. of Swivel type chairs should be provided. One for the winch operator (movable and height adjustable) and two with rollers for the logging engineer. Additional sitting arrangement for at least two persons should be provided inside the cabin.		
2.0 (viii)	Working table fitted with monitors must be having ample space for seating of two engineers side by side.		
2.0 (ix)	At least four nos. of drawers with locking arrangement to store manuals, multi meters and other materials.		
2.0 (x)	Slip proof metallic floor with suitable washable carpet should be provided. Note: Aluminum floor, with a wood sub floor, with non-slip rubber coating on top of it, is also acceptable.		
2.0 (xi)	Logging Engineer's console/ computer system should be located at 90 degree to the operator's winch panel.		
2.0 (xii)	A fire extinguisher at readily accessible location should be provided. A first aid kit at readily accessible location should be provided.		

2.0 (xiii)	The operator's console should include line load display, electronic depth display, engine RPM meter, oil pressure meter, air pressure meter and hydraulic oil temperature meter and meters for any other required parameters related to winch and engine etc.		
2.0 (xiv)	The logging cabin should have provision of displaying various parameters such as generator voltage, frequency, power drawn from internal and external source etc.		
2.0 (xv)	110 V / 220 V AC along with 12V/24 V DC interior lights are to be provided.		
2.0 (xvi)	Apart from normal power outlets (110Vac, 50/60 Hz) provided inside the logging cabin minimum two numbers of power outlets (220Vac, 50/60 Hz, 5 Amps rated) to be given in the logging cabin with multi socket that accepts British plugs in addition to Euro, NEMA American and Australian plugs with ON/OFF switch.		
2.0 (xvii)	Suitable LED lights must to be installed at the drum area for proper illumination. Proper LED rig-lights (AC) of minimum 5000 Lumen each to be installed to illuminate the working area. Additionally, LED rig-lights (DC) of sufficient power should be installed immediately below the rear corner rig- lights operated directly from the truck battery. Both the lights at the rear exterior corners must have suitable metallic cover at sides to protect against impact.		
2.0 (xviii)	The rear corner LED rig lights should be mounted on a motorized platform controlled by remote to focus the light at desired area of working.		

2.0 (xix)	A dedicated LED light to be provided, positioned from the operator's viewpoint and focused on the winch drum, to ensure clear visibility of the cable winding during night operations.		
2.0 (xx)	Safety warning lights (red in log mode / green in safe mode) should be installed in the backside of the logging unit which should be visible from the catwalk while arming the perforating gun.		
2.0 (xxi)	The logging unit's steel/aluminum welded construction materials should be properly painted to resist corrosion.		
2.0 (xxii)	The Panel Rack should be placed in such a manner that the electrical wires connected to the rear side of the panels are easily accessible for connection purposes. A side window to be provided for easy access to the panels' rear side connections.		
2.0(x xiii)	xxiii. Gas detection with warning system (preferably buzzer) capable of detecting at least Methane, H ₂ S and CO shall be provided inside the logging engineer's cabin/operators compartment. Suitable adapters/fixtures for calibration of the gas detector must be provided.		
2.0(x xiv)	Non-sparking electrical switches shall be provided inside the logging cabin/operators compartment.		
2.0(x xv)	Wall mounted white board should be provided with magnetic duster in the engineers cabin.		
2.0(x xvi)	Apart from the things mentioned above, bidder may provide any other standard fittings inside the logging cabin.		
Note	The Logging cabin must be designed to provide ample working and seating space.		
3.0 HYDRAULICS WINCH SYSTEM			

3.0 (i)	The unit should be equipped with Split Drums (with antirust / non-corrosive coating) to accommodate 5.55625 mm (7/32") OD and of 7.9375 mm (5/16") OD single conductor wireline non-spliced cables having at least 7000 meters in length.		
3.0 (ii)	The winch drum powered by the unit's hydraulic system should have speed ranges from 0.3 m/min or less to 150 m/min or more with fine speed control even at maximum load condition.		
3.0 (iii)	A certificate should be provided confirming micro fractures / cracks free base mounting frame of the cable drums.		
3.0 (iv)	Operation of both the winch drums should be controlled by an electronic proportional joystick control mounted on the operator's control panel. The joystick should get locked when brought to neutral position.		
3.0 (v)	Electrically operated pneumatic or hydraulic failsafe brake for the winch to be provided in the logging cabin.		
3.0 (vi)	The logging unit winch drum must be capable to provide over-pulls up to 8,500 lbs during stuck conditions, the hydraulic system rating of the drums winch must be sufficient to withstand these over-pulls safely (well within system rating of the logging units).		
4.0 WIRELINE LOGGING CABLE:			
4.0	The installed cables in the logging unit should meet specifications as mentioned in the clause 4.0 to clause 4.2.		
5.0 OVERHEAD SPOOLING AND DEPTH/TENSION MEASURING SYSTEM:			

5.0 (i)	The logging unit should have overhead cable spooling systems for 7.9375 mm (5/16") O.D. and 5.556 mm (7/32") mono conductor cable.		
5.0 (ii)	The overhead Spooling system must be strong, lightweight with height adjustment and side to side steering.		
5.0 (iii)	Metric depth measuring system (Make: Benchmark, Model: AM5K) with depth and tension measuring panel needs to be provided for depth measurement/recording having dual electronic encoders, a tension device (Load Pin) and independent mechanical/electronic backup encoder. If separate accessories are required for using both the cables, that also needs to be provided. The backup depth display from the mechanical/electronic encoder is to be made available near the winch operator panel.		

5.0 (iv)	Line weight measuring system with a weight indicator to measure line tension of at least 15,000 lbs to be provided. It should have digital display for total and differential load. Weight measurements should have audio and screen alarms at operator's panel for increase / decrease of line load. The line weight measuring system should have provision for both load pin and rig floor load cell connected with the sheave wheel.		
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6.0 ADDITIONAL LOGGING UNIT FEATURES:

6.0 (i)	Built-in line oiler system for lubricating the cables with operating switches on the winch operator's control panel.		
6.0 (ii)	Grounding reel fitted with at least 50 meters cable with clamps for grounding during perforations and other allied wire line operations.		

6.0 (iii)	Reels necessary for intercom, top load cell etc., of at least 70m length to be provided.		
6.0 (iv)	A complete two-way, license-free wireless communication system (Range: 1 Km, Frequency Band: 2.4 GHz ISM band or 865–867 MHz SRD band), compliant with applicable Wireless Planning and Coordination (WPC), Department of Telecommunications (DoT), Government of India regulations, shall be provided for reliable communication between the engineer's cabin and the derrick floor.		
6.0 (v)	Tool racks with suitable, independently working air bags for transportation of downhole tools must be provided. The air bags must be easy to access for replacement.		
6.0 (vi)	Tool storage area installed under the floor of the drum area for the longest tool must be guided with roller support throughout the rack length and fitted with air bags for transportation.		

6.0 (vii)	The winch drums must be fitted with slip rings having ample protection from moisture, dust and rain. Both slips rings should be easily accessible for repair and maintenance work. Note: A single composite slip ring connected to both the cable drums is also acceptable.		
6.0 (viii)	A Switch must be provided to conveniently switch between both the cables inside the logging cabin.		
6.0 (ix)	Rear bumper should be fitted with a working vise and light weight folding step.		
6.0 (x)	All the electrical wires running in the winch / draw works compartment must be concealed/in a conduit.		
6.0 (xi)	Body to be painted to OIL's specification (with OIL logo). Logo / specification shall be provided by OIL after placement of order.		

6.0 (xii)	Safety / Warning Signs (pertaining to radioactive and explosive jobs) must be provided.		
7.0 STORAGE REQUIREMENT WITHIN THE LOGGING UNIT:			
7.0 (i)	Two separate compartments, one for carrying Explosive Shaped Charges and the other for carrying Electric Detonators should be provided. These two compartments should be separated by a distance of minimum 1.5 meters as per Indian Explosive Rules. The inside of these compartments should be paneled with good quality non-sparking material. These two individual compartments should be minimum 1.15 meters away from the electrical power sources and fuel tanks mounted in the Logging Truck. The minimum sizes of the compartments are as per clause 7.0(i) in the tender.		
7.0	Enough storage space should be provided to carry at least 6 nos. of TAG		
(ii)	guns. The length of these racks should be at least 6 meters each and should accommodate 5 inch OD gun/tool. Additional racks should be provided to transport at least 4 nos. (minimum 3 meters in length) of logging tools with diameter ranging from 1 11/16" to 4". In addition to this 2 small (at least 1.5 meters in length) racks should be provided for carrying CCL, MPD and other short length tools.		
7.0 (iii)	Fixed positions should be provided for transportation of one pair of sheave wheels which is required for logging operation.		

7.0 (iv)	Separate compartments to be provided for carrying hand tools / wrenches, rig up accessories and other logging related accessories. All compartments should have heavy duty locking / latching arrangement.		
7.0 (v)	A suitable mounting arrangement for the high pressure grease control head to be provided near the spooler (cable drum area of the logging unit). <u>Note:</u> please refer to the pressure control equipment section for length and OD of the high pressure grease control head.		
7.0 (vi)	The drum area flooring will be of aluminum tread plate material.		
7.0 (vii)	A roll up weather resistant cover must be installed over the drum area opening.		
8.0 SURFACE LOGGING SYSTEM			
8.1	The log data acquisition and processing system should be a rack mounted PC based system, integrated collection of state-of-the-art hardware & software. It must be field proven, latest version logging system, capable of performing the logging & completion operations mentioned in the tender document as per clause 8.1(i) to 8.1(iii)		
8.2	The log data acquisition and processing system has a Shooting Panel with features as mentioned in the tender document clause 8.2(i) to 8.2(iii)		
8.3	LED displays should be used for depth and line speed monitoring for winch operator.		

8.4	The logging system should have mono-conductor out connection point so as to facilitate logging with the use of external panels. It is preferred that the connection point is an UHF female socket (SO-239) connector.		
9.0 LOGGING SYSTEM COMPUTER HARDWARE			
9.0	It must be a state-of-the-art PC based logging system. In addition to other standard fittings / accessories which are mounted in the logging cabin, the system includes at least all the features mentioned in the tender document as per clauses 9.0(i) to 9.0(xi).		
10.0 LOGGING SYSTEM SOFTWARE			
10.0 (i)	The data acquisition software must be latest version “WARRIOR” based. The system software should be based on latest version of windows based operating system. Perpetual license for supplied software should be provided.		
10.0 (ii)	Software must be in English language.		
10.0 (iii)	Detailed help on the complete system should be available.		
10.0 (iv)	The software must be capable of performing well completion and cased hole logging operations.		
10.0 (v)	The System must be able to export/import log data into API standard LAS, LIS and ASCII format.		
10.0 (vi)	Oil India Limited’s logo must be incorporated in all outputs.		
10.0 (vii)	The system software must include real time depth correction capability during logging.		

10.0 (viii)	The system software must display real-time corrected depth and line tension.		
10.0 (ix)	Utilities like splice, merge and edit of logs to be provided.		
10.0 (x)	It should be capable of logging both in meters and feet.		
10.0 (xi)	Virus protection Software must be provided in the system with backup in CD/DVD/Portable Drive.		
10.0 (xii)	Microsoft office professional version (complete package) should be installed in the system with perpetual license.		
10.0 (xiii)	Complete image of the system must be provided in CD/DVD/Portable Drive.		
10.0 (xiv)	The bidder should give an undertaking to update the software as and when updates are available for a period of 10 years from the date of commissioning of the unit at no cost to OIL.		
10.0 (xv)	Installer files of all software used in the system must be provided on CD / DVD's as back up.		
10.0 (xvi)	If any Lab Test and Diagnostic software is there, for the surface system and downhole tools, must be provided.		
10.0 (xvii)	Details of the software with price break up need to be provided.		
11.0 RIG-UPACCESSORIES			

11.0 (i)	Stray voltage monitor: One rig voltage monitor mounted inside the cabin, with 50 meters long leads and accessories to measure a minimum rig voltage of 0.20 Volt at well site.		
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11.0 (ii)	The Logging unit should be fully equipped with rig up and other standard accessories for straightaway commissioning of the unit. Detailed list along with price break up for each item is to be provided. However, certain operationally vital items with quantity as mentioned in the table below are to be included and confirmed in the offer.		
11.0 (iii)	Rig-up/operational accessories are to be provided as per the table mentioned in the clause no. 11.0(iii)		
NOTE	In addition to the items in the above list, the bidder must quote for any other item(s), if required, for straightaway commissioning of the unit. During equipment commissioning, if it is found that certain items are required but not quoted by the bidder, then the bidder must provide the same free of charge to OIL. OIL at its discretion may increase or decrease the quantity of items mentioned in the above list.		
12.0 TECHNICAL MANUALS AND DOCUMENTATION			
12.0	Technical manuals and documentations mentioned are to be supplied as per Tender clause 12.1 to 12.2.		
13.0 LOGGING TOOLS AND ACCESSORIES			

13.0	All the down-hole logging tools as mentioned below should be rated for minimum 104 MPA (15,000 PSI) pressure and 176.6 Deg. C (350 Deg. F) temperature. Temperature rating should be for a minimum of one-hour continuous exposure in the well bore. The tools and cable head should have thread size 1 3/16" - 12 N - 2 ("GO" connection). All supplied tools and accessories must be corrosion resistant. All the tools, centralizers/de-centralizers quoted must be of metallic body. Note: Bidder must provide equivalent 20 nos. crossovers and 20 nos. servicing kit in case thread types used in tools are different from the type listed above (1-3/16"-12N-2 "GO" connection).		
13.1	Casing Collar Locator (CCL) to be provided as per tender requirement in clause 13.1.		
13.2	Shooting GR/CCL to be provided as per tender requirement in clause 13.2.		
13.3	Plug/Packer setting tool and Junk catcher to be provided as per tender requirement in clause 13.3.		
13.4	Sinker Bar to be provided as per clause 13.4		
13.5	Multi Finger Imaging Tool (MIT) or equivalent to be provided as per the clause 13.5		
13.6	Free Point tool to be provided as per clause 13.6		
13.7	Skid Mounted 10k Psi Wireline Pressure Control Equipment System & Other Related Accessories to be provided as per clause 13.7		
14.0 BOWEN 150 SERIES OR EQUIVALENT CASED HOLE FISHING EQUIPMENT			

14.0	Bowen 150 series or equivalent Cased Hole Fishing equipment to be provided as per clause 14.0 (i to ix).		
15.0 SPARES PARTS AND CONSUMABLES (Similar to the one fitted in the logging units)			
15.0	Spares and Consumables are to be quoted as per clauses 15.1 through 15.7 of the tender document.		
16.0 STANDARD PRICE LIST			
16.0	Standard price list is to be provided as per clause 16.0		
17.0 PAST PERFORMANCE			
17.0	Past performance as mentioned in clause 17.0		
18.0	the bidder must confirm in writing that it complies with all clauses from 18.0.a to 18.0.f		
19.0 DEVIATIONS FROM TECHNICAL SPECIFICATIONS			
19.0	The bidder must quote as per the tender requirement only and provide full information wherever applicable in the bid. After opening of the bids, in case any technical clarification is required on any bid, OIL will seek clarification from that bidder and the bidder will have to reply/clarify with complete details within the specified time mentioned by OIL. If not complied, that particular bid may not be considered for further evaluation. The bidder must respond to each and every clause in the NIT in a tabular form as per APPENDIX – B1.		
20.0 UNPRICED BID			

20.0	Bidder must submit an un-priced bid along with technical bid by omitting the price from the invoices for technical evaluation of the bid.		
SEC-C	Training and Inspection is to be quoted as per Section C of tender document		
SEC-D and SEC-E	Delivery and Installation and commissioning to be completed as per Section D and Section E respectively of Annexures E1 and E2.		
SEC-F	<u>WARRANTY and LIQUIDATED DAMAGE:</u> Bidders agree to comply with Warranty and Liquidated Damages clauses given in Section-F		

PRE-QUALIFYING CRITERIA (PQC)

PQC Checklist			
	Tender No		
	Bidder's Name		
Sl. no.	PQC Clause Description	Bidder's Response (complied/not-complied)	Relevant Page no. of the Bid to support Bidder's response
	<u>PRE-QUALIFYING CRITERIA (PQC)</u>		
	The bids shall broadly conform to the specifications and terms and conditions given in this bid document. Bids shall be rejected in case the items offered do not conform to required parameters stipulated in the technical specifications and to the respective international/national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected.		
Clause A.1	<u>PQC - TECHNICAL:</u>		
Clause 1.1	<u>If the bidder is the Original Equipment Manufacturer (OEM)</u> The Bidder should be original equipment manufacturer (OEM) of Cased hole Logging tools with own associated Surface data acquisition system and data acquisition software. The bidder should satisfy the following clauses and documentary evidence should be enclosed along with the techno-commercial bid:		
Clause 1.1(a)	<u>Manufacturing Experience:</u> [i] The Bidder should have minimum 10 (ten) years of Experience in Manufacturing of at least four (4) prescribed set of logging tools (Table A) with own Surface data acquisition system and data acquisition software to run the below-mentioned tools (Table A).		

<u>Table - A</u>		
Sl. No.	Tools & Surface data acquisition system and its acquisition software.	No. of tools / system / software supplied in the past
1	PCE (Pressure Control Equipment)	1
2	GR/CCL (Gamma Ray/Casing Collar Locator) Combination tool	2
3	Multifinger Imaging Tool (MIT) or equivalent (24 or 40 or 60 Finger).	1
4	BST-Size 10, Model E-4 or Equivalent Setting Tool Or BST-Size 20, Model E-4 or Equivalent Setting Tool	1
5	Free Point Indicator Tool	2
6	Casing Collar Locator	18
(ii) The bidder (OEM) <u>must have</u> 10 (ten) years of Experience in Manufacturing /Assembling of Cased Hole wireline logging unit. Or, If the bidder obtained the Cased Hole Wireline unit from a third party, that party <u>must have 10 (ten) years</u> of Experience in Manufacturing / Assembling of Cased hole wireline logging unit. (iii) Documentary evidence for the above should be provided for sale of 01 (One) quantity each of Wireline logging unit, Listed Logging Tools and surface system with data acquisition software (Table - A). (iv) If the Manufacturer/Assembler of the Cased hole Wireline Logging Unit is from a third party, then the Bidder must provide a back-up authority letter authorizing the Bidder to submit the bid. NOTE 1: For above, copy of purchase order for sale of Wireline logging unit, Listed Logging Tools and Surface system with data acquisition software (Table - A) provided should not be less than 10 (ten) years from original bid closing date of this tender.		

Clause 1.1(b)	Supply Experience: (i) Bidder must have <u>sold the prescribed set of Tools, system, software mentioned in Table - A to companies other than its own parent/subsidiary/co-subsidiary/sister subsidiary companies</u> which are in the business of ‘exploration & production of hydrocarbons’ and/or ‘Oil Field Service Providers’ during the last 10 (ten) years. (ii) The Bidder itself or the third-party Manufacturer / Assembler of Cased hole wireline logging unit must have <u>sold 01 (One) number of Cased-Hole Wire line Logging Unit or Open Hole Logging Unit</u> to companies <u>other than its own parent/subsidiary/co-subsidiary/sister subsidiary companies</u> which are in the business of ‘exploration & production of hydrocarbons’ and/or ‘Oil Field Service Providers’ during the last 10 (ten) years. NOTE 2: The Purchase Orders/contracts date need not be within 10 (ten) years preceding original bid closing date of this tender. However, the execution of supply must be within 10 (ten) years preceding the original bid closing date of this tender. In the event of any extension to the bid closing date of the tender, the original scheduled bid closing date shall be considered for evaluation of BEC clauses.		
Clause 1.1(c)	The Purchase Orders mentioned above must have been affected to a country other than the OEM’s country of origin. Note : For clauses 1.1(a), 1.1 (b) & 1.1 (c) above, the reckoned period shall be the period prior to the date of original closing of the techno-commercial bid of this tender.		
Clause 1.1(d)	Documentary Evidence: Documentary evidence in respect of the above should be submitted with the bid in the form of copies of relevant Purchase Orders along with the following documents: - (i) Dispatch documents (Invoice, Bill of Lading/Consignment, etc.) and (ii) Successful Commissioning Report		
Clause 1.1(e)	Performance Certification: The bidder or Manufacturer / Assembler of Cased hole wireline logging unit must furnish certificates / documents (which are to be submitted along with the bid) from at least 01 (one) of their customers certifying the satisfactory functioning of the Cased hole Logging Tools and Logging Units sold to them by the bidder or Manufacturer / Assembler of Cased hole wireline logging unit. In case such documents are genuinely of		

	confidential in nature or cannot be shared, then either the CEO or the Company Secretary of that bidder or Manufacturer / Assembler of Cased hole wireline logging must give an undertaking to the effect that their company has executed /completed such Orders and the Cased hole Logging Tools / Cased hole wireline logging units sold by their company are performing to the best of satisfaction of the customers/clients. Experience against clauses 1.1(a), 1.1 (b) to be submitted in the following format separately <table><tr><th>Description</th><th>Name of the Company with address, phone & Fax number to whom equipment were supplied</th><th>Purchase Order No. and date (Refer NOTE 2)</th><th>Qty. Supplied & date of supply (Refer NOTE2)</th><th>Details of Documentary evidence</th></tr><tr><td>Cased hole Logging Unit</td><td></td><td></td><td></td><td></td></tr><tr><td>Logging tools</td><td></td><td></td><td></td><td></td></tr><tr><td>Surface acquisition system and software for Cased hole downhole tools</td><td></td><td></td><td></td><td></td></tr></table>	Description	Name of the Company with address, phone & Fax number to whom equipment were supplied	Purchase Order No. and date (Refer NOTE 2)	Qty. Supplied & date of supply (Refer NOTE2)	Details of Documentary evidence	Cased hole Logging Unit					Logging tools					Surface acquisition system and software for Cased hole downhole tools						
Description	Name of the Company with address, phone & Fax number to whom equipment were supplied	Purchase Order No. and date (Refer NOTE 2)	Qty. Supplied & date of supply (Refer NOTE2)	Details of Documentary evidence																			
Cased hole Logging Unit																							
Logging tools																							
Surface acquisition system and software for Cased hole downhole tools																							
Clause 1.1(f)	Bids of those bidders who themselves do not meet the experience criteria as stipulated in BEC Clause no. 1.1 (a) and 1.1 (b) above can also quote under the categories listed below: (i) Eligibility criteria in case bids are submitted on the basis of technical experience of the parent/subsidiary company: Offers of those bidders who themselves do not meet the experience criteria as stipulated in clauses (a) and (b) above can also be considered provided the bidder is a subsidiary company of the parent company [supporting company, which holds more than fifty percent of the paid-up equity share capital of the bidder] who fulfils the experience criteria. Similarly, bid from parent company can also be considered on the strength of requisite experience of its subsidiary [supporting company, in which the bidder holds more than fifty percent of the paid-up equity share capital]. However, the parent/subsidiary company (as the case may be) of the bidder should on its own meet the																						

	experience as stipulated in the BEC and should not rely for meeting the experience criteria on its sister subsidiary/co-subsidiary company or through any other arrangement like Technical Collaboration agreement. In case of bidder who is a subsidiary company dependent upon the experience of the parent company or vice-versa with a view to ensure commitment and involvement of the parent/subsidiary company (Supporting Company) for successful execution of the contract, the participating bidder should enclose a Parent/Subsidiary Agreement (as per PROFORMA-N) between the parent and the subsidiary company (Bidder) or vice-versa and Parent/Subsidiary Guarantee (as per as PROFORMA-O) from the parent/subsidiary company to OIL for fulfilling the obligation under the Agreement, along with the technical bid. (ii) Eligibility criteria in case bid is submitted on the basis of technical experience of sister-subsidiary/co-subsidiary company: Offers of those bidders who themselves do not meet the technical experience criteria stipulated in (a) and (b) above can also be considered based on the experience of their Sister Subsidiary/Co-Subsidiary company within the ultimate parent/holding company provided that the sister subsidiary/co-subsidiary company and the bidding company are both wholly owned subsidiaries of an ultimate parent/holding company either directly or through intermediate wholly owned subsidiaries of the ultimate parent/holding company or through any other wholly owned subsidiary company within the ultimate parent/holding company. Documentary evidence to this effect to be submitted by the ultimate parent/holding company along with the technical bid. The bidding company can draw on the experience of their multiple subsidiary sister/Co-subsidiary company(ies) specializing in each sphere of activity, i.e. (a) manufacture/supply (b) installation and commissioning (c) servicing and maintenance to meet the technical experience criteria mentioned in clauses (a) and (b) above. Provided that with a view to ensure commitment and involvement of the ultimate parent/holding company for successful execution of the order, the participating bidder must submit an		
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	agreement, as per format furnished vide Proforma-Q, between them & their ultimate parent/holding company, along with the technical bid. (iii) In the situations mentioned in eligibility clauses (i) and (ii) above, following conditions are required to be fulfilled/documents to be submitted: A certificate from the statutory Auditor of the bidding company to establish the relationship and equity percentage holding between the bidding company and the supporting company. The certificate should be duly concurred/endorsed by the Company Secretary or one of the Directors of the company concerned. Note: The above certificate should not be more than 30 days old as on the original bid closing date. The supporting company shall not be allowed to submit their separate/independent bid against the tender. In such case, all such bids shall be rejected. Also, bids having technical support from the same entity shall be rejected. The Manufacturer of Tools, Surface data acquisition system and related acquisition software must authorize the Bidder to sell their products and services (viz. Installation & Commissioning services, Training services, etc.) mentioned in this tender document and the bidder must submit a back-up authority letter in this regard from the Manufacturer concerned in its techno-commercial bid.		
Clause 1.1(g)	1.0 If the bidder or its OEM have successfully supplied logging units with tools and accessories to Oil India Limited in the past and whose past performance has been satisfactory would be considered as established source of supply and hence need not satisfy clause as stipulated in the Para 1.1 (a), (b), (c), (d), (e) and (f) above. However, the bidders/OEMs are required to submit a copy of the Purchase Order and Commissioning Report along with the Techno-commercial bid. Also, they shall quote logging unit with tools and accessories of the same OEM whose past performance was found satisfactory. NOTE3: The bidder must give an undertaking to provide		

	immediate support / solutions to any issues related to Logging Units and Tools. 2.0 Wherever two or more sets of the same equipment/item are required, the bidders must quote all the sets of the same item that are identical in all respects i.e. the same category of equipment must be of same make, model and compatible in all respects. The bidder must quote accordingly as mentioned in this clause. 3.0 Bids with qualifying conditions like “the product is under development and would be supplied by the time etc.,” will be summarily rejected. Surface Logging System: The offered surface logging system must be capable of performing the logging operations and services with the type of tools as described in the Clause 13.1 to 13.6 of ANNEXURE-B in this document. The bidder must confirm compliance on this point in its bid.		
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(A.2) PQC - FINANCIAL:

Clause 1.0	The bidder shall have an annual financial turnover from Operations of minimum 50% of tender value during any of the preceding 3 (Three) financial/ accounting years reckoned from the original bid closing date of the tender. {Annual Financial Turnover of the bidder from operations shall mean - "Aggregate value of the realization of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91). }
Clause 2.0	"Net Worth" of the bidder must be positive for the financial/accounting year just preceding to the original Bid Closing Date of the Tender. { Net worth shall mean: "Share capital + Reserves created out of profits and securities Premium - Aggregate value of accumulated losses (excluding revaluation reserves) - deferred expenditure - Miscellaneous Expenditure to the extent not written off and carried forward Loss - Reserves created out of write back of depreciation and amalgamation". }
Clause 3.0	Considering the time required for preparation of Financial Statements, if the last date of preceding financial/ accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial/accounting year are not available with the bidder, then the financial turnover of the previous three

	financial/accounting years excluding the preceding financial/accounting year will be considered. In such cases, the Net worth of the previous financial/accounting year excluding the preceding financial/accounting year will be considered. However, the bidder has to submit an affidavit/ undertaking (PROFORMA - 8) certifying that 'the balance sheet/Financial Statements for the financial year (as applicable) has actually not been audited so far'. Note: a. For proof of Annual Turnover & Net worth any one of the following documents must be submitted along with the technical bid:- i. A certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual Turnover & Net worth as per format prescribed in (PROFORMA -9). OR b. Financial Statements (Audited Balance Sheet & Profit & Loss account along with all the schedules/notes forming part of the Balance sheet & Profit and Loss Account) audited by the auditors appointed under the statute like Companies Act etc. wherever applicable. In cases where the bidding/ supporting company (as applicable) are not required to prepare Audited Financial Statements as per the Law of the Land of the country of the bidding/supporting company as applicable, the bidder shall provide documentary evidence for the same along with a certificate from a practicing Chartered Accountant or equivalent to this effect. The bidder must also submit the financial statement as per the accounting standards of the country of the bidding/supporting company as the case may be, duly certified by the practicing-chartered accountant or equivalent. In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/ State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.
Clause 4.0	In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date on which the Audited Balance Sheet and Profit & Loss Account is signed. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.
Clause 5.0	In case the Bidder is subsidiary company (should be a wholly owned

	subsidiary of the parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ultimate parent/holding company, then following documents need to be submitted: i. Turnover of the parent/ultimate parent/holding company (supporting company) should be in line with Para A.2 (1.0) above. ii. Net Worth of the parent/ultimate parent/holding company (supporting company) should be positive in line with Para A.2 (2.0) above iii. Corporate Guarantee (PROFORMA - 10) on parent/ultimate parent/holding company's (supporting company) letter head signed by an authorized official undertaking that they would financially support their wholly owned subsidiary company for executing the project/job in case the same is awarded to them. iv. A certificate from the Statutory Auditor of the bidding company to establish the relationship and equity percentage holding between bidding company and the supporting company. The certificate should be duly concurred/endorsed by the Company Secretary or one of the Directors of the company concerned.
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SECTION-G

LIST OF PROFORMAS, EXHIBITS, APPENDICES, ETC.

(Applicants are advised to submit all the proformas applicable to them and fill the table below)

Sl. No.	Proforma-No.	Form Description	Submitted (Yes/No/Not applicable)
1.	Proforma-N	Agreement Between Bidder and Their Parent Company/Subsidiary Company/Sister-Subsidiary/Co-Subsidiary/ Member of Same Network or Member of Same Global Firm	
2.	Proforma-O	Parent Company/Subsidiary Company Guarantee	
3.	Proforma-Q	Agreement Between Bidder, Their Sister Subsidiary/Co-Subsidiary Company and The Ultimate Parent/Holding Company of Both the Bidder and The Sister Subsidiary/Co-Subsidiary	
4.	Proforma-8	Certificate of compliance to financial criteria	
5.	Proforma-9	Certificate Of Annual Turnover & Net Worth	
6.	Proforma-10	Parent/Ultimate Parent/Holding Company's Corporate Guarantee Towards Financial Standing	
7.	Appendix-B1	Technical Checklist	
8.	Appendix-D1	PQC Checklist	

**ON THE OFFICIAL PAD OF THE BIDDER TO BE EXECUTED BY THE AUTHORIZED
SIGNATORY OF THE BIDDER**

Certificate of Compliance of FINANCIAL CRITERIA:

I the authorized signatory(s) of (Company
or firm name with address) do hereby solemnly affirm and declare / undertake as under:

**The balance sheet/Financial Statements for the financial year _____ (as the case
may be) has actually not been audited as on the Original Bid Closing Date.**

Place:

Date:

Signature of the authorized signatory

Note: Please note that any declaration having date after the Bid Closing Date will not be considered and will be rejected. This certificate is to be issued only considering the time required for preparation of Financial Statements i.e. if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date.

CERTIFICATE OF ANNUAL TURNOVER & NET WORTH

TO BE ISSUED BY PRACTISING **CHARTERED ACCOUNTANTS' FIRM** ON THEIR LETTER HEAD

TO WHOM IT MAY CONCERN

This is to certify that the following financial positions extracted from the audited financial statements of M/s..... (Name of the Bidder) for the last three (3) completed accounting years upto _____ are correct.

YEAR	TURN OVER In INR (Rs.) Crores or US \$ Million)	NET WORTH In INR (Rs.) Crores or US \$ Million)

Rate of Conversion (if used any): USD 1.00 = INR.....

Place:

Date:

Seal:

Membership Code:

Registration No. :

Signature

**PARENT/ULTIMATE PARENT/HOLDING COMPANY'S CORPORATE GUARANTEE TOWARDS
FINANCIAL STANDING
(Delete whichever not applicable)**

(TO BE EXECUTED ON COMPANY'S LETTER HEAD)

DEED OF GUARANTEE

THIS DEED OF GUARANTEE executed at this day of by M/s (mention complete name) a company duly organized and existing under the laws of (insert jurisdiction/country), having its Registered Office at hereinafter called "the Guarantor" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns.

WHEREAS

M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their Tender No. _____ for _____ and M/s _____ (Bidder) intends to bid against the said tender and desires to have Financial support of M/s _____ [Parent/Ultimate Parent/Holding Company(Delete whichever not applicable)] and whereas Parent/Ultimate Parent/Holding Company(Delete whichever not applicable) represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the Financial support as required by the bidder for qualifying and successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed by the Guarantor to give this Guarantee and undertakes as follows:

1. The Guarantor confirms that the Bidder is a 100% subsidiary of the Guarantor.
2. The Guarantor agrees and confirms to provide the Audited Annual Reports of any of the preceding 03(three) financial/accounting years reckoned from the original bid closing date.
3. The Guarantor have an annual financial turnover of minimum **INR**(or equivalent **USD**) during any of the preceding 03(three) financial/accounting years reckoned from the original bid closing date.
4. **Net worth** of the Guarantor is positive for preceding financial/ accounting year.
5. The Guarantor undertakes to provide financial support to the Bidder for executing the project/job, in case the same is awarded to the Bidder.

The Guarantor represents that:

- (a) This Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Bidder.
- (b) The liability of the Guarantor, under the Guarantee, is limited to the 50% of the annualized contract price entered between the Bidder and OIL. This will, however, be in addition to the forfeiture of the Performance Guarantee furnished by the Bidder.
- (c) This Guarantee has been issued after due observance of the appropriate laws in force in India.
- (d) This Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of New Delhi, India.
- (e) This Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.

- (f) The Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

For and on behalf of
(Bidder)

For and on behalf of
(Parent/Ultimate Parent/Holding
Company(Delete whichever not
applicable))

Witness:

1.

2.

Witness:

1.

2.

FORMAT OF AGREEMENT BETWEEN BIDDER AND THEIR PARENT COMPANY/SUBSIDIARY COMPANY/SISTER-SUBSIDIARY/CO-SUBSIDIARY/MEMBER OF SAME NETWORK OR MEMBER OF SAME GLOBAL FIRM (As the case may be)

(TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE AND NOTORISED)

This agreement made this ____ day of ____ month ____ year by and between M/s _____ (Fill in the Bidder's full name, constitution and registered office address) hereinafter referred to as bidder on the first part and M/s. _____ (Fill in full name, constitution and registered office address of Parent Company/Subsidiary Company) hereinafter referred to as "Parent Company/Subsidiary Company/Sister-Subsidiary/Co-Subsidiary/Member of same network or Member of same global firm (Delete whichever not applicable)" of the other part:

WHEREAS

M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their tender No. _____ for _____ and M/s _____ (Bidder) intends to bid against the said tender and desires to have technical support of M/s _____ [Parent Company/Subsidiary Company - (Delete whichever not applicable)] and whereas Parent Company/Subsidiary Company (Delete whichever not applicable) represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the services as required by the bidder for successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed to by and between the parties as follows:

1. M/s. _____ (Bidder) will submit an offer to OIL for the full scope of work as envisaged in the tender document as a main bidder and liaise with OIL directly for any clarifications etc. in this context.
2. M/s. _____ (Parent Company/Subsidiary Company (Delete whichever not applicable)) undertakes to provide technical support and expertise, expert manpower and procurement assistance and project management to support the bidder to discharge its obligations as per the Scope of work of the tender/ Contract for which offer has been made by the Parent Company/Subsidiary Company (Delete whichever not applicable) and accepted by the bidder.
3. This agreement will remain valid till validity of bidder's offer to OIL including extension if any and till satisfactory performance of the contract in the event the contract is awarded by OIL to the bidder.

4. It is further agreed that for the performance of work during contract period bidder and Parent Company/Subsidiary Company (Delete whichever not applicable) shall be jointly and severely responsible to OIL for satisfactory execution of the contract.
5. However, the bidder shall have the overall responsibility of satisfactory execution of the contract awarded by OIL.

In witness whereof the parties hereto have executed this agreement on the date mentioned above.

For and on behalf of
(Bidder)

For and on behalf of
(Parent
Company/Subsidiary Company (Delete
whichever not
applicable))

M/s.
Witness:
1)
2)

M/s.
Witness:
1)
2)

PARENT COMPANY/SUBSIDIARY COMPANY GUARANTEE (Delete whichever not applicable)

(TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE AND NOTORISED)

DEED OF GUARANTEE

THIS DEED OF GUARANTEE executed at this day of by M/s (mention complete name) a company duly organized and existing under the laws of (insert jurisdiction/country), having its Registered Office at hereinafter called “the Guarantor” which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns.

WHEREAS

M/s Oil India Limited, a company duly registered under the Companies Act 1956, having its Registered Office at Duliajan in the State of Assam, India, hereinafter called “OIL” which expression shall unless excluded by or repugnant to the context thereof, be deemed to include its successor and assigns, invited tender number for on M/s (mention complete name), a company duly organized and existing under the laws of (insert jurisdiction/country), having its Registered Office at (give complete address) hereinafter called “the Company” which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successor and permitted assigns, have, in response to the above mentioned tender invited by OIL, submitted their bid number to OIL with one of the condition that the Company shall arrange a guarantee from its parent company guaranteeing due and satisfactory performance of the work covered under the said tender including any change therein as may be deemed appropriate by OIL at any stage. The Guarantor represents that they have gone through and understood the requirement of the above said tender and are capable of and committed to provide technical and such other supports as may be required by the Company for successful execution of the same.

The Company and the Guarantor have entered into an agreement dated as per which the Guarantor shall be providing technical and such other supports as may be necessary for performance of the work relating to the said tender.

Accordingly, at the request of the Company and in consideration of and as a requirement for OIL to enter into agreement(s) with the Company, the Guarantor hereby agrees to give this guarantee and undertakes as follows:

1. The Guarantor (Parent Company/ **Subsidiary Company (Delete whichever not applicable)**) unconditionally agrees that in case of non-performance by the Company of any of its obligations in any respect, the Guarantor shall, immediately on receipt of notice of demand by OIL, take up the job without any demur or objection, in continuation and without loss of time and without any cost to OIL and duly perform the obligations of the Company to the satisfaction of OIL.
2. The Guarantor agrees that the Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Company.
3. The Guarantor shall be jointly with the Company as also severally responsible for satisfactory performance of the contract entered between the Company and OIL.
4. The liability of the Guarantor, under the Guarantee, is limited to the 50% of the annualized contract price entered between the Company and OIL. This will, however, be in addition to the forfeiture of the Performance Guarantee furnished by the Company.
5. The Guarantor represents that this Guarantee has been issued after due observance of the appropriate laws in force in India. The Guarantor hereby undertakes that the Guarantor shall obtain and maintain in full force and effect all the governmental and other approvals and consents that are necessary and do all other acts and things necessary or desirable in connection therewith or for the due performance of the Guarantor's obligations hereunder.
6. The Guarantor also agrees that this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of, India.
7. The Guarantor hereby declares and represents that this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.
8. The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

For & on behalf of (Parent Company/ **Subsidiary Company (Delete whichever not applicable)**)

M/s _____

Signature _____

Name: _____

Designation: _____

Common seal of the Company: _____

Witness:

1. Signature _____
Full Name _____
Address _____

Witness:

2. Signature _____
Full Name _____
Address _____

PROFORMA-Q

FORMAT OF AGREEMENT BETWEEN BIDDER, THEIR SISTER SUBSIDIARY/CO-SUBSIDIARY COMPANY AND THE ULTIMATE PARENT/HOLDING COMPANY OF BOTH THE BIDDER AND THE SISTER SUBSIDIARY/CO-SUBSIDIARY (Strike out whichever is not applicable between Ultimate Parent and Holding Company. Similarly strike out whichever is not applicable between Sister Subsidiary and Co-subsidiary Company)

(IN CASE OF INDIAN BIDDER TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE AND NOTORISED)

This agreement made this ____ day of ____ month ____ year by and between M/s. _____

(Fill in Bidder's full name, constitution and registered office address) _____ hereinafter referred to as "Bidder" of the first part and M/s. _____ (Fill in full name, constitution and registered office address of Sister Subsidiary/Co-subsidiary Company of the Bidder) herein after referred to as "Sister Subsidiary/ Co-subsidiary" of the second part and M/s. _____ (Fill in the full name, constitution and registered office address of the Ultimate Parent/Holding Company's of both the subsidiaries) hereinafter referred to as "Ultimate Parent/ Holding Company" of the third part.

WHEREAS

M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their tender No. _____ for _____ and M/s. _____ (Bidder) intends to bid against the said tender and desires to have a technical support of M/s. _____ (Sister Subsidiary/Co-subsidiary Company) and Sister Subsidiary/Co-subsidiary Company represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the services as required by the bidder for successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed to by and between all the three parties as follows:

1. M/s. _____ (Bidder) will submit an offer to OIL for the full scope of work as envisaged in the tender document.
2. M/s. _____ (Sister Subsidiary/Co-subsidiary Company) undertakes to provide technical support and expertise and expert manpower, material, if any, to support the bidder to discharge its obligations as per the Scope of work of the tender / Contract for which offer has been made by the bidder.
3. This agreement will remain valid till validity of bidder's offer to OIL including extension if any and also till satisfactory performance of the contract in the event the bid is accepted and contract is awarded by OIL to the bidder.
4. Sister Subsidiary/ Co-subsidiary Company unconditionally agrees that in case of award of contract to the Bidder, if the Bidder is unable to execute the contract, they shall, immediately on receipt of notice by OIL, take up the job

without any demur or objection, in continuation without loss of time and without any extra cost to OIL and duly perform the obligations of the Bidder/Contractor to the satisfaction of OIL.

5. The Ultimate Parent/Holding Company also confirms and undertakes that the commitment made by the Sister Subsidiary/ Co-subsidiary company in providing the technical support and technical expertise and expert manpower to support the bidder for execution of the contract are honoured.
6. The Ultimate Parent/Holding Company also takes full responsibility in getting the contract executed through the Sister subsidiary/ Co-subsidiary company in case the Bidder/Contractor is unable to execute the contract.
7. In witness whereof the parties hereto have executed this agreement on the date mentioned above.

For and on behalf of (Bidder)	For and on behalf of (Sister Subsidiary/ Co-subsidiary)	For and on behalf of (Ultimate Parent/ Holding Company)
M/s.	M/s.	M/s.
Witness	Witness	Witness
1)	1)	1)
2)	2)	2)

Note: In case of contracts involving - (a) manufacture/supply (b) installation and commissioning (c) servicing and maintenance of any equipment, as the bidding company can draw on the experience of their multiple subsidiary sister/Co-subsidiary company (ies) specializing in each sphere of activity, i.e. (a) manufacture/supply (b) installation and commissioning (c) servicing and maintenance, therefore, in that case, the above format shall be signed by all the sister/Co-subsidiary company(ies) and necessary modifications may be made in the above format to include all sister subsidiaries.