

FORWARDING LETTER

M/s _____

Sub: Tender No. SDG2738P20/09 for SUPPLY, TRAINING, INSTALLATION & COMMISSIONING OF ONE NUMBER 1.5 INCH COIL TUBING UNIT

Dear Sirs,

- 1.0 OIL INDIA LIMITED (OIL), a “Navaratna” Category, Government of India Enterprise, is a premier oil Company engaged in exploration, production and transportation of crude oil & natural gas with its Headquarters at Duliajan, Assam. Duliajan is well connected by Air with nearest Airport being at Dibrugarh, 45 km away.
- 2.0 In connection with its operations, OIL invites International Competitive Bids (ICB) from competent and experienced manufacturers through OIL’s e-procurement site for “**SUPPLY, TRAINING, INSTALLATION & COMMISSIONING OF ONE NUMBER 1.5 INCH COIL TUBING UNIT**”. One complete set of Bid Document for above is uploaded in OIL’s e-procurement portal. You are invited to submit your most competitive bid on or before the scheduled bid closing date and time through OIL’s e-procurement portal. For your ready reference, few salient points of the Tender are highlighted below:

E-Tender No	:	SDG2738P20/09 DATED 11.10.2019
Type of Bidding	:	SINGLE STAGE TWO BID SYSTEM
Tender Fee	:	NOT APPLICABLE
Bid Closing Date & Time	:	18.12.2019; 11:00 HRS.
Technical Bid Opening Date & Time	:	18.12.2019; 14:00 HRS.
Price Bid Opening Date & Time	:	To be decided later and shall be intimated separately to the technically qualifying bidders.
Bid Security Amount	:	INR 27,39,500.00 OR USD 38,500.00
Bid Security Validity	:	Upto 31.08.2019
Bid Submission Mode	:	Bids must be uploaded online in OIL’s E-procurement portal
Bid Opening Place	:	Office of GM-Materials, Materials Department, Oil India Limited, Duliajan -786602, Assam, India.
Bid Validity	:	Bid should be valid for 120 days from actual bid closing date.

Original Bid Security to be submitted	:	Office of GM-Materials, Materials Department, Oil India Limited, Duliajan -786602, Assam, India.
Performance Guarantee	:	Applicable @ 10% of Order value
Integrity Pact	:	To be submitted as per attached format
Contact Details	:	AMRIT L BORA, MANAGER MATERIALS E-MAIL: MMFD1@OILINDIA.IN; PHN: 0374-2808720
E-Tender technical Support	:	TEL: 0374- 2804903, 2807171, 2807192, E-MAIL: ERP_MM@OILINDIA.IN
Bids to be addressed to	:	GM-Materials, Materials Department, Oil India Limited, Duliajan -786602, Assam, India.
LIST OF ANNEXURES APPLICABLE		
General Terms & Conditions	:	MM/GLOBAL/E-01/2005 for E-Procurement ICB Tenders
Annexure-A	:	Specification, scope of work and various notes to bidders
Appendix-A1	:	Format of undertaking by Bidders towards submission of authentic information/documents
Annexure-B	:	Bid Evaluation & Rejection Criteria
Appendix-B1	:	Format of Authorization & Backup Warranty by Manufacturers to Sole Selling Agent/Dealer/Distributor/Supply House
Annexure-C	:	Check list (Commercial)
Annexure-D	:	Format for certificate of annual turnover & net worth
Annexure-E	:	Matrixes for BEC/BRC Evaluation
Others	:	Any other document uploaded online in OIL's E-procurement portal.

3.0 OIL now looks forward to your active participation in the Tender.

Thanking you,
Yours faithfully,
OIL INDIA LIMITED

sd/-
(Amrit Loushon Bora)
Manager Materials(FD)
For GM Materials
For Resident Chief Executive

PART- AAA :: TECHNICAL SPECIFICATIONS & QUANTITY OF ITEMS

Sl no	Item description	Quantity
10	Supply of 1.5” Tractor Mounted Coiled Tubing Unit (CTU) alongwith Tractor (Primemover) Unit	01 No
20	Pre-despatch Inspection, Installation, Commissioning and Training	01 AU

DETAILED SPECIFICATION & SCOPE OF WORK:**1.0 APPLICATION:**

Intervention of wells (vertical as well as deviated profile such as S-bend, J-bend, extended reach, horizontal etc.) for carrying out of the following (but not limited to) well servicing jobs:

Well unloading & activation, sand cleaning, fill removal, hot oil circulation, well killing, matrix-acidization, logging, removal of hydrate plug, fish recovery, backwashing, pumping of high viscous fluid etc.

Maximum Well depths	:	up to 5500.0 meters.
Working pressure	:	maximum 10,000 psig.
Fluid to be handled	:	Crude oil, Plain Water, Acid, Saline Water, high density slurries (sand, well intervention fluids etc.), bauxite, resin, xylene, water-foamer, nitrogen etc.
Tubing size	:	2 ⁷ / ₈ ” or 3 ¹ / ₂ ”
Liner size	:	4” or 7”,
Drill Pipe	:	5”
Casing size	:	5 ¹ / ₂ ” or 7 ¹ / ₈ ”

Overall dimensions of the unit:

Overall length of the tractor-trailer combination: Shall not exceed 18 meter.

Overall Height - Shall not exceed 4.5 meter from ground.

Overall width - 2.60 meter (approx.)

Ground clearance for Tractor unit as per the OEM of Tractor. Ground clearance for Trailer unit shall be minimum 35 cm for operational convenience. The Trailer chassis and the retro fitted undercarriage components (if any) shall be mounted with sufficient ground clearance to avoid hitting/fouling while moving on uneven roads, enabling to move the outfit through uneven culvert and undulating & underfoot conditioned roads in oil fields.

2.0 EQUIPMENT DETAIL:

2.1 COILED TUBING:

The bidder should offer suitable continuous tubing made out of high strength alloy steel of Standard CT 900 as per API 5ST Specification: 1.5"OD X 0.109" Wall thickness

Operation in 5500 m maximum depth oil and gas wells. The continuous tubing should have the following specifications:

Outer Diameter	:	1.5"
Wall Thickness	:	0.109" Wall thickness
Length of the continuous pipe:		5500m/18040ft (approx.)
Plain end weight	:	1.621lbs/ft
Pipe body yield load	:	42,870lb
Internal yield pressure	:	12,480 Psi
Hydrostatic test pressure	:	10,000 psi
Torsional yield strength	:	1340ft.lbs
Minimum Yield Strength	:	90,000 psi
Minimum tensile strength	:	98,000 psi
Maximum hardness	:	HRC22
Material	:	as per API 5ST
Heat treatment	:	Full body of the coiled tubing must be heat treated, quenched and tempered and the coiled tubing should be properly stress relieved and rolled flash-in.

2.2 TUBING REEL ASSEMBLY:

The above tubing is to be placed in a suitably designed skid mounted tubing reel assembly. The reel assembly is to be mounted on a steel sub frame, which shall in turn be mounted on the trailer chassis. Reel Assembly shall be an individual structure and required to be mounted directly on the chassis and suitable for dismounting from the chassis and placing on the ground without any other support. The reel assembly sub frame shall have an integral sump with an arrangement for drain plug for cleaning or eliminating spills and pollutants. A ladder shall be equipped with the structure for riding on the tubing reel to carry out maintenance job.

The tubing reel external plumbing manifold shall be equipped with a de-booster assembly for monitoring the circulating pressure. The control cabin shall be having a transducer for receiving the hydraulic signal from the de-booster assembly and feeding it to the data acquisition system.

The tubing reel external plumbing manifold shall have two H2S service FIG 1502 inlet. Each inlet shall comprise of one plug valve and then connected to a common ball dropping manifold/port with another plug valve in series with the inlet connection. All the components of the external plumbing manifold will be H2S service FIG 1502 rated at 10,000 psi.

The reel assembly should have the following features: -

2.2.1 DRIVE:

The system should be suitably designed for hydraulic motor drive through gear reducer, brake and Roller chain & sprocket system such that the system keeps a holding tension on the drum at all times regardless of direction of travel or injector speed. The drive system shall have the capability to spool different range of coiled tubing i.e. 1.1/4" to 1.3/4"OD. Details of the offered roller chain and sprocket drive system including engineering assembly drawing to be furnished along with the offer.

2.2.2 LEVEL WIND:

Mechanical driven diamond lead screw shall be provided with adjustable clutch to operate automatic spooling mechanism in synchronization with reel speed. Provision for remotely operated hydraulic motor shall be provided to override in either direction. The level wind shall have the feature of being hydraulically raised to working position and contains a counter balance valve to maintain the elevation.

2.2.3 ROTARY JOINT:

Suitably designed Rotary joint complete with valves and necessary fittings for working pressure of 10,000 psi shall be mounted on reel hub to permit continuous circulation during the operation. Ball entry point for the operation of disconnect/ Ball activated down-hole tool shall be equipped in suitable location in the flow tree.

2.2.4. Internal Pumping Manifold:

Internal Pumping Manifold shall contain H2S service integral figure 1502 type fittings rated at 10000 psi. A tee for ball launching and wire-line adaptation port for wireline shall be incorporated in the design. Further, two nos. of 10000 psi shutoff plug valve should be included.

2.2.5 BRAKING SYSTEM (tubing reel assembly):

Integral fail-safe disc brake assembly for automatic engagement with manual override feature shall be provided so that the brake may be activated during emergencies.

2.2.6 SPRAY UNIT:

Tubing oiler shall be equipped with the carrier assembly of level wind for cleaning of the tubing while re-spooling onto the drum and a minimum 25-gallon lubrication reservoir shall be mounted at a suitable location. Reservoir shall be equipped with fill cap, level gauge, 140 psi relief valve, air actuated valve, air regulator, air pressure drain valve, and lube drain valve.

2.3 MEASURING AND DISPLAY:

Depth measuring assembly shall be of Mechanical & Electronic type (Mechanical counter and back up by electronic depth meter). Suitable tubing depth measuring assembly complete with all accessories and mountings shall be provided. The read out for mechanical counter shall be in 5 (five) digit metric units (inclusive of 1 decimal places). In addition to mechanical counter an electronic depth meter shall be provided in the operator's console with the following features:

- i) The read out should be in 6 (six) digit metric units (inclusive of 2 decimal places)
- ii) The unit should display both depth and tubing travel rate in MKS system as well as in FPS system.
- iii) The unit should have provision to sound an alarm when preset depth is reached and rate of tubing travel goes outside the preset range.
- iv) The display is to be mounted in a NEMA – 4 rated enclosure. It shall be of oil, water & chemical resistant type and shall work with power input of 12/24 volt DC.
- v) Suitable provision for field calibration along with detailed instructions should be provided.

2.4 LIFT SYSTEM:

Lift system spreader bar arrangement for lifting loaded spool assembly with coiled tubing shall be provided. Suitable spreader bar with the lifting tackles to be provided.

2.5 REEL PIVOT OPERATOR:

Suitable mechanism for pivoting tubing reel as necessary shall be equipped to align reel with wellhead.

3.0 TUBING INJECTOR, BOP AND HOSE REEL ASSEMBLY:

Tubing injector, BOP and Hose Reel Assembly are to be mounted on a steel sub frame and properly positioned and mounted on the trailer chassis. The relative position of the equipment on the sub frame shall be suitably designed to have sufficient access for movement of crew to carry out maintenance job. The details of these items are as follows:

3.1 TUBING INJECTOR:

- a) Tubing Injector shall be of make Hydra Rig / S&S / National / HPT suitable for 1.5" OD tubing, Hydraulic motor driven of continuous pull capacity 60,000 lbs@ 4500 psi and intermittent pull capacity of 66000 lbs.
- b) Maximum Injector Weight: 4000 Kg.
- c) Max speed: 200-250 ft/min.
- d) Hydraulic injector motor shall have fail safe brake system. Additional spring applied and pressure released Modular Brake system to be provided.
- e) The injector shall be equipped with:
 - i) Hydraulic Load Cell assembly (0-80,000 lbs) of make Martin Decker/Wagner with dual scale Weight Indicator.
 - ii) Dual planetary Gear transmission
 - iii) The drive chassis shall be equipped with Hydraulic system for tension adjustment. Necessary accumulators are to be installed in the chain tensioning hydraulic circuit to ensure continuous hydraulic pressure during operation.
 - iv) Goose neck shall be fold down roller type detachable, 72" radius
 - v) Catwalk on three sides of the injector (with detachable folding railing).
 - vi) A fall protection device also to be mounted
 - vii) Remote control injector chain lubricating system. Chain type shall be ANSI#180.
 - viii) Pin on mount side loading stripper assembly
 - ix) Easily replaceable chain assembly to adapt gripper block for CT size ranging from 1.25"-1.75" OD. Integral gripper block with insert is not acceptable. There shall be provision of quick removal of plunger / insert from the gripper block assembly.
 - x) One set telescopic support legs minimum 20 ft long with screw, to support injector during operation. Another set of short support legs (of length approx. 5 feet) to facilitate maintenance work at base.
 - xi) Arrangement for connecting safety belt and harness shall be provided, for safe working on the injector.
 - xii) Quick disconnects of make Aeroquip or Parker.

3.2 BOP:

One (01) no. hydraulically operated BOP of make Bowen / Texas Oil Tool / Forum /Vanoil/Parveen shall be supplied with the following specifications:

- i) 3.06" bore X 10,000 psi WP, 15,000 psi TP, H2S service (API 6A standard)& suitable for 1.5" OD Coiled Tubing having Quadra rams provision for
 - a. Pipe ram
 - b. Slip ram
 - c. Shear ram
 - d. Blind ram

ii) Connection: 3.06" 10M BX-154 flanges up and down and shall incorporate 2.06" 10M BX-152 side outlet, with adapter to 2"x 15M H2S rated figure 1502 union half. The Pressure transducer shall be provided to monitor the well head pressure. CB-34 blanking plug with lifting arrangement and test port shall be provided. The Quad BOP mounts on a removable stand pinned to the trailer deck. Change over spool shall be provided for 3.0610M BX-154 to 2.9/16" BX-153 & 3.06 10M BX-154 to 2.9/16" RX 27, 5000psi.

iii) In addition to the above crossover, necessary adapter flanges to match the following wellheads(X - Mass tree) with the BOP shall be supplied:

- a. 2.9/16" X 3000 psig
- b. 2.9/16" X 5000 psig
- c. 2.9/16" X 10000 psig
- d. : 4 1/16" x 5000psig
- e. 3.1/8"x 5000psig
- f. 3.1/16"x 10000psig

3.3 HOSE REEL ASSEMBLY:

- i. The injector power hoses should be spooled on a suitable reel operated by hydraulic motor.
- ii. All control hoses from the BOP to the control console shall be spooled on a separate reel operated by hydraulic motor.
- iii. All other hoses connecting the injector controls, load cell, stripper etc. to the control console shall be spooled on suitable reel(s) operated by hydraulic motor(s).
- iv. All hydraulic and pneumatic hoses, electric cables etc. shall be covered / insulated and they shall not come in contact with the trailer frame or other hard / metallic surfaces that may cause premature wear due to chaffing or vibration. Protective sheathing shall be provided wherever they come into contact with the trailer frame or other hard/metallic surfaces that may cause pre mature wear.
- v. End connectors of the hoses shall be distinctly marked with tags at both ends for easy identification.

4.0 STUFFING BOX:

- vi. Hydraulically actuated Side door stripper packer of make Texas Oil Tool / Forum / Parveen/Vanoil with the following specs shall be supplied.
 - i) 3.06" X 10,000 Psi, H2S service, dressed for 1.5" tubing.
 - ii) Connection: H2S rated per NACE MR-0175-03.3.06" 10M CB34 union nut and pin down. The stripper mounts to the injector via a pin on stripper adapter.
 - iii) The Side door of the stripper shall be designed for integral function, i.e. close/open for replacing interlock packer and energizing/compressing Interlock packer. Stripper with design with separate hydraulic gear/piston for actuation of door & energizing/compressing the Interlock packer is not acceptable. Lubrication port shall be provided at suitable location for lubricating during operation.
- vii. In addition to the above, a tandem stripper shall be provided which is designed to run in tandem below the side door stripper packer. It may be run independently as a back-up stripper or in conjunction with the upper pack off. It shall have provision for injecting lubricant under pressure between the packers to reduce the well pressure across the tandem packer. The tandem stripper shall be of side door configuration (3.06" X 10,000 Psi, H2S service, dressed for 1-1/2" tubing) and top connection shall be compatible to the above stuffing box and bottom connection shall be compatible to the supplied BOP.

5.0 CONTROL CABIN:

A. The unit is to be provided with a telescopic Control Cabin Hydraulically raised with panels (of suitable composition) behind the deck engine. The cabin shall be equipped with a hydraulic lift system such that the cabin may be raised during operation to allow the operator to have a full & clear view of the job during its operation. It shall be fitted with requisite number of doors & windows. Necessary seating arrangement for the operator & two other personnel shall be provided within the cabin. The control console is to be installed inside the cabin.

B. The cabin shall contain the following:

- a. Two (2) side access door with sliding type window, rain gutter & Stainless steel hardware. Front window with rain gutter, windshield wiper. Foldable platform is to be provided on both side of the cabin door for safe entry to and exit from the cabin.
- b. Front window is tinted safety glass protected by removable expanded metal guard.
- c. Access of about 29.50" (0.75m) width ladder provided with grab handles on cabin.
- d. Two (2) exterior spot lights powered from the deck engine shall be mounted in the front of the cabin controllable from inside of the cabin and for facilitating focusing on the tubing reel and injector. (Exterior Light on the cabin roof is not acceptable).
- e. Proper illumination shall be provided inside the cabin. All lights are to be wired to the deck.
- f. All dial gauges shall be suitably back-lit for easy reading and in MKS /SI units
- g. Ergonomically designed captain chair shall be provided for operator comfort to have clear vision of the reel surface as well as counter. Two (2) foldable seats inside the cabin shall also be provided.
- h. The Cabin shall be air conditioned to maintain a comfortable temperature in the operator cabin. The supplier will provide all the specifications of the entire AC system in the bid document. List of spares for the AC system to be provided. Additionally two nos of DC fans to be powered by deck engine should be provided at suitable locations inside the cabin.
- i. Air horn to be provided, operated from control console.
- j. All access steps (operator's cabin/chassis) with grips / handles shall be located at the convenient location around the unit.
- k. **The control should comprise of an integrated cabin shell and floor design** to have a noise free environment inside the cabin during operation. **The control cabin shall have suitable hydraulic mechanism for lifting the cabin during operation.** Cabin of Fixed type floor shall not be acceptable.
- l. Cabin shall be suitably noise sealed for a Noise free environment considering occupational health of the CTU operator.
- m. Hydraulic hoses inside and outside of the cabin are to be connected through the floor/front of the cabin with suitable connector.
- n. Suitable locking arrangement of Cabin doors shall be equipped.

C. Control Console shall contain the following:

1. Weight indicator hydraulically activated 2 (two) scale type (Metric & FPS).
2. Engine throttle controls, tachometer, Lube oil pressure & temperature gauges and water temperature gauges of deck engine.
3. Tubing Injector hydraulic controls (Pulling & Snubbing) with pressure gauge.
4. Tubing reel hydraulic controls with Pressure gauge.
5. Tubing Injector Hydraulic chain tension and chain traction controls with pressure gauge.
6. Tubing Injector Chain oiler controls.
7. Well head pressure gauge.
8. Tubing Pressure Gauge.
9. All hydraulic pressure control & relief valve, valves bank with mechanical actuation levers.
10. All hydraulic pressure & temperature gauges.

11. Light switches.
12. All other necessary gauges.
13. The control console shall be positioned in such a way that the wellhead and all the other working places are in sight.
14. Audio visual Safety alarms for safe operation and protection of main equipment of the unit.
15. Detailed schematic as well as circuit diagram with color code of the control console shall be provided along with the quotation.

Note: All gauges should be mechanical type.

6.0 COILED TUBING INTEGRITY MONITORING SYSTEM:

The unit is to be provided with a coiled tubing integrity monitoring system capable of performing continuous coiled tubing inspection during RIH and POOH of coiled tubing in field environment.

It shall be equipped to provide the following data:

- a. Provide continuous and accurate wall thickness measurements
- b. Provide continuous diameter and ovality measurements
- c. Track weld-seam location to monitor rotation of the coiled tubing

The equipment shall be capable of adjusting between 1.25 inch to 1.50 inch coiled tubing (OD) range. It shall be horizontally split for installation on coiled tubing and light in weight.

All hardware including laptop with latest configurations and software system required for monitoring the coiled tubing condition in real time and mounting brackets for installation of the equipment on coiled tubing shall be provided. The software system shall be capable to provide a clear, unambiguous and comprehensive analysis of the inspection data in an easy-to-read report.

7.1 DATA ACQUISITION SYSTEM (DAS):

Control box: Containing fit-for-purpose hardware housed in a NEMA 4X stainless steel enclosure. Standards channels acquired – Wellhead Pressure, Circulation Pressure, Pipe Weight (Heavy and Light), CT Depth, CT Speed, Fluid Pumping Rate with totalizer. Channels for input signals for nitrogen and fluid rates and volumes to be supplied. Nitrogen pumping unit and fluid-pumping unit will supply the digital signals for N2 and fluid rates. Sensors and cabling necessary to attach standard channels to DAS for the following data channels to be provided.

OPTICAL ENCODER	COIL TUBING DEPTH & SPEED
PR.TRANSDUCER	TUBING WEIGHT
PR.TRANSDUCER	CIRCULATING PRESSURE
PR.TRANSDUCER	WELL HEAD PRESSURE
MAGNETIC PICK UP	FLUID PUMPING RATE/ TOTAL FLOW

7.2 SOFTWARE PROGRAM:

Fully compatible software for real-time monitoring of CT working life shall be provided. Operates using MS windows software (latest edition recommended). Allows user to view and store data acquired from the DAS in English or metric units. Displays data in timeline configured by user (once every second is the default timeline).

The system shall have the following features:

- i. Data recorded in various optional format such as access, excel, word document etc. User configurable alarms on all channels.
- ii. Multiple modes of operation – acquire data from sensors (ovality measuring sensor), post-job analysis; generate simulated data from a virtual CT control panel.

- iii. User customizable displays for easy visibility. Custom, onscreen strip charts.
- iv. Provision of UPS charged from deck engine electrical system, with suitable capacity to meet the power requirement of the complete system.
- v. The necessary hardware/field instruments/necessary software/interfacing modules for software run shall be in the scope of suppliers.
- vi. Provision for copying the data to removable storage device through USB connection.
- vii. A monitor is needed to display real time data clearly at all times and one Laptop with latest configurations to run the data acquisition program and retrieve the data simultaneously. The above system shall be installed inside the cabin in a weatherproof enclosure.

8.0 HYDRAULIC TRANSMISSION & CONTROLS:

1. All hydraulic pumps and motors shall be of hydraulic displacement control type (Electrical displacement control system is NOT acceptable).
2. All hydraulic direction control valve shall have mechanical actuation system. In case of Pilot operated direction control valve, pilot signal shall be either pneumatic or hydraulic.
3. Make of the hydraulic pump and motors shall be of Saur Danfoss / Sun Strand / Parker / Denison / Rexroth / Linde only. The following information shall be provided along-with the offer in a tabular form:
 - Total number of hydraulic pumps
 - Make, model, rating and type (vane, gear, piston etc.) & specification (fixed/variable displacement, of each pump). **Injector pump should necessarily be variable displacement type.**
 - Functions of each pump (which pump provides flow to which circuit and which end functions)
 - Total number of hydraulic motors and cylinders
 - Make, model, rating and type of each motor/cylinder
 - Functions of each motor/cylinder
- Note: Use of fixed displacement hydraulic pumps should be restricted to the extent possible.**
4. Make of the hydraulic hose and end connection shall be of Parker/Gates/Eaton/Power Grip only and having relevant SAE / DIN standard. The hydraulic hoses shall be distinctly marked with tags at both ends for easy identification.
5. In the event of an order, bidder shall provide a list of:
 - All hydraulic hoses used in the unit stating size, length and SAE specification.
 - All hydraulic filters and strainers stating their part nos. and the replacement frequency for each.
 - All hydraulic valves with their part nos., ratings and detailed specifications.
6. All the hydraulic pumps and motors/cylinders shall be easily accessible for maintenance and replacement, i.e., these shall be accessible without dismantling any component (except the tubing reel) from the unit.

9.0 POWER DRIVE SYSTEMS:

- A. The unit shall be equipped with hydraulic drive mechanism to power the following:
 - a) Injector
 - b) Tubing reel
 - c) BOP+ Stripper
 - d) Hose reels
 - e) Other Hydraulic system
 - f) Lubrication etc.

B. The following hydraulic components shall also be installed on the unit.

- i. A hydraulic oil reservoir of adequate capacity, located suitably to provide sufficient suction to the hydraulic pumps, with suitable arrangement for draining and cleaning should be provided with the following:
 - baffle plate
 - sight level glass in easily readable position
 - temperature indicator (for in tank hydraulic oil temperature)
 - breather cap
 - Return filters and suction strainers etc.
- ii. Hoses connected to the Hydraulic reservoir shall be distinctly marked with tags at both ends for easy identification.
- iii. The Hydraulic reservoir shall be equipped with a hand operated pump with filtration system for filling up hydraulic reservoir.
- iv. Necessary high pressure and return line filters for entire hydraulic system
- v. Hydraulic oil cooler.
- vi. Necessary hydraulic valves, gauges, hoses and piping.

C. Detailed technical specifications of all hydraulic components like pump, motor, cylinders etc. shall be furnished along with the offer.

D. The following schematic diagrams shall be provided along with the offer:

- Integrated Wet kit schematic (hydraulic circuit) of the entire unit.
- Separate section wise hydraulic schematics for all operations and components such as injector hydraulic circuit, tubing reel hydraulic circuit, control console schematic, etc. shall be provided.

Note: The hydraulic circuit diagram shall be inclusive of all components with standard symbol, legend, marking/numbering & bill of material as per ISO standard symbol and shall be complete in all aspects i.e. sectional circuit for control panel, injector reel, etc. should be provided. Pump setting pressure and capacity shall be provided in the circuit. Operational principle/ functions of the different pump types with reference to the above circuit diagram shall also be furnished. The circuit diagram shall further include details of hydraulic cooler system.

E. The block diagram for mechanical power transmission from the engine to hydraulic pump arrangement shall be furnished.

F. The block diagram for hydraulic power transmission (showing the pumps, motors, cylinders, valve banks and end components such as injector, reel, level wind etc.) shall be provided.

10.0 BACK UP SYSTEM:

High Pressure (equivalent to hydraulic circuit pressure) hand pump to back up power to BOP, Stripper, Injector chain traction and other emergency requirement shall be supplied. Details of the offered high pressure hand pump specifying Make & Model along with the technical literature shall also to be furnished with the offer.

11.0 ACCUMULATOR:

A high-pressure accumulator system with a sufficient volume shall be supplied and installed to provide a constant back up hydraulic pressure to BOP, Stuffing Box and chain traction system.

TRACTOR AND TRAILER:

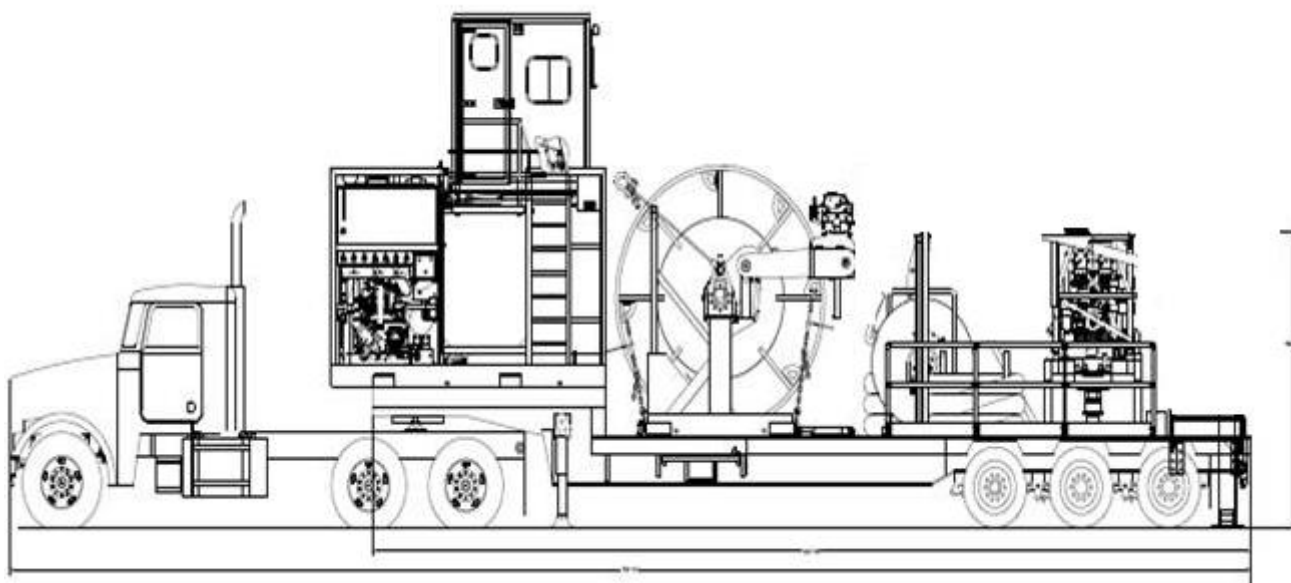
12.1 DIMENSION (COMPLETE UNIT):

Overall width - 2.60 meter (approx.)

Overall Height - Shall not exceed 4.5 meter from ground.

Overall length of the **tractor-trailer combination**: Shall not exceed 18 meter.

Ground clearance for Tractor unit as per the OEM of Tractor. Ground clearance for Trailer unit shall be minimum 35 cm for operational convenience. The Trailer chassis and the retro fitted undercarriage components (if any) shall be mounted with sufficient ground clearance to avoid hitting/fouling while moving on uneven roads, enabling to move the outfit through uneven culvert and undulating & underfoot conditioned roads in oil fields.



12.2 DECK ENGINE:

- I. The deck engine should be water cooled, turbo-charged diesel fuel (HSD) engine of make **Caterpillar/Cummins** developing minimum power 400 BHP at rated RPM suitable to run the entire operation of the Coiled tubing unit smoothly along with all accessories.

The offered engine shall comply with BS-VI/EURO-VI/TIER IV Final/equivalent or higher emission standard as applicable in the state of Assam in India at the time of delivery of the unit. The engine should be vibration isolated from the trailer by means of suitable anti-vibration mounting. Also, the bidder should confirm that sufficient space is available for maintenance of engine on the unit.

- II. The rating should be in accordance with BS 5514-1:1987, or ISO 3046/1-1986 and duty should be suitable for Coiled Tubing Operation:

The engine will run in the following broad climatic conditions:

Altitude – 150 meter above sea level (ASL)

Temperature range: 2 deg - 45 Deg C Max

Average Rainfall - 350cms

Relative humidity 95% at 35° C.

III. In case of engine with Electronic Controller System, Engine Fault Diagnostic & Repair Tool (both Software and complete Hardware including laptop) shall be supplied along with the unit.

IV. The Engine exhaust is to be designed properly with manifold, suitable muffler, spark arrester, rain cap and flexible exhaust connection as per norms of Oil Field Operation. The exhaust pipe shall be suitably wrapped by insulated material for safety of operators. In case spark arrester is not required to be fitted separately and the offered engine is provided with inherent mechanism to prevent discharge of open flame and sparks in the exhaust, the bidder shall submit a certificate from the OEM of the offered engine along with the technical bid stating that the exhaust system of the offered engine does not discharge of open flame and sparks in the exhaust.

V. Suitable arrangement for keeping engine starting battery under locking arrangement and with safety cover from rain.

VI. The engine safety system should be equipped with the following:

- a. Emergency shut off
- b. Automatic tripping of the engine with alarm for the following conditions: low lube oil pressure, high water temperature, over speed and high lube oil temperature.
- c. There should be a master switch to isolate the battery from powering the engine when the unit is not operation to prevent drain out of the battery.

VII. All engine operations like Start/ Stop, Throttle control, Emergency stop etc. shall be performed from control cabin. Also alternative arrangement should be made to perform the above operation from engine control panel.

VIII. The deck engine should be suitable to run the entire operation of the Coiled Tubing Unit smoothly along with all accessories as detailed elsewhere including lighting system of control room and deck, air conditioning of control room and air supply wherever required.

IX. All the engine performance parameters like lube oil pressure and temperature, water temperature, engine rpm etc. should be displayed in the control cabin of the unit along with additional gauges mounted near the engine for the parameters.

X. Other engine accessories to be provided are:

- a. Alternator
- b. Engine starter
- c. Air cleaners & Air dryer assembly
- d. Fuel filtration system
- e. Lube oil pump and distribution system
- f. Lube oil filters and oil pan sight gauge
- g. Fuel filters
- h. Air compressor

XII. The bidder has to furnish along with the offer the engine's performance curve, data sheet and other technical leaflet in order to show detailed load calculation and technically justify the selection of the offered engine for power requirement of CTU, considering adequate transmission loss/mechanical efficiency.

XIII. Maintenance manual, service manual and parts list of the offered engine, gear box and transmission should be provided at the time of supply.

12.3 TRANSMISSION:

The hydraulic pumps should be mounted on a pump drive coupled to the engine, through a suitable mechanism for starting the engine at no load as well as for easy dismantling/disconnecting the pump drive from the engine during maintenance.

12.4 FUEL TANK FOR DECK ENGINE:

Suitable diesel tank with adequate capacity for 10 hours of continuous operation at peak load to be installed near the deck engine to provide sufficient suction to the engine fuel pump along with suitable strainer at the opening of the tank to prevent entry of foreign materials & locking arrangement shall be provided. Cleaning facility with suitable drain plug for the tank shall be provided. Fuel level in the tank should be displayed in the instrument panel of the control cabin along with dip gauge facility. Hand pump should be provided for filling of diesel tank from drum.

13.1 SPECIFICATION OF THE TRACTOR (PRIMEMOVER):

- I. Brand New Tractor unit manufactured not prior to six months from the date of issuance of Purchase Order. The tractor unit must be of **Make: Kenworth / International / Peterbilt / Volvo / Mercedes-Benz / MOL CY NV** and shall be suitable for operation in rough terrain, typical oil field roads and desert environment. The bidder shall take special care in selecting and designing the unit considering its application in rough terrain and typical oilfield roads.
Note: Bidder should clearly mention the Make & Model of the offered Tractor unit and the technical leaflets/brochure of the offered model of Tractor unit shall be submitted along with technical bid by the bidder.

- II. Drive: 6 x 4 (One non powered front steer axle & two powered rear drive axles).

- III. GCW: Not exceeding 49000 Kg when coupled with the offered trailer unit.

- IV. Engine: Suitable water cooled diesel engine developing power not less than 350 HP at rated rpm. The bidder must offer the Engine of **Make: Caterpillar / Cummins / International / Volvo / Mercedes-Benz only.**

The bidder shall clearly mention the Make & Model of the offered Engine and submit the technical leaflet/brochure with technical details of the offered Engine in the technical bid.

- IV (A) Emission Norms:

As per notification issued by the Government of India, the applicable emission norms for vehicles in India shall be **BS-VI / EURO-VI** with effect from 1st April, 2020. Hence, the offered Tractor unit shall have to comply with the emission norms **BS-VI / EURO-VI**. The Tractor unit shall be equipped with an On-Board Diagnostic system conforming to relevant OBD norms, if applicable.

- V. Transmission: Suitable model of **fully automatic / automated transmission** having forward gears, neutral & reverse gear(s) with suitable shifter and without clutch pedal as supplied by the OEM of the offered Tractor shall be provided for road drive of the unit. The offered Transmission shall be compatible with the Engine.

Manual Transmission with clutch pedal are not acceptable.

The bidder shall clearly mention the Make & Model of the offered transmission and submit the technical leaflet/brochure with technical details of the offered transmission in the technical bid.

- VI. Axles:

a. Front Axle: One number non powered front steer axle as per design. The bidder shall clearly mention front axle capacity, front axle loading, Make & Model of the offered front axle and submit the technical leaflet/brochure with technical details of the offered front axle in the technical bid.

b. Rear Axles: Two numbers powered rear drive axles as per design, Rear Axle Drive. Rear axles shall have differential lock facility with alarm/indicator. The bidder shall clearly mention the rear axle capacity, rear axle loading, Make & Model of the offered rear axles and submit the technical leaflet/brochure with technical details of the offered rear axles in the technical bid.

c. Actual loading on each individual axle (all front and rear) shall be within maximum load bearing capacity of the respective axle.

VII. Suspension:

a. Front Suspension: Heavy Duty Multi-Leaf Spring Suspension of suitable design with Shock Absorbers to be provided. Rubber/Air/Hydraulic suspension will not be accepted.

B.Rear Suspension: Preferably rocker beam (walking beam)/ bogie suspension with auxiliary leaf springs or rubber/air cushion support as per design for operating under arduous conditions encountered in the oilfield should be provided in rear. Hydraulic suspension is not acceptable.

The bidder shall clearly mention the type, Make & Model of the offered rear suspension and submit the technical leaflet/brochure with technical details of the offered rear suspension in the technical bid.

VIII. Steering: The Tractor unit shall have hydraulically assisted power steering system, Right Hand Driven (i.e. Steering wheel shall be on the right hand side inside the Driver's cabin when viewed from the rear of the Tractor). Left Hand Driven unit is not acceptable.

IX. Brake: ABS control, suitable dual circuit full air operated service brakes on all wheels and suitable parking brakes to be provided in the Tractor unit. All Emergency / Parking Brake Servos shall preferably have manual release mechanism (Screw Type) to release the brake manually in case of low/ no air pressure for maintenance. Parking Brake operating through hand operated shifter valve and it shall automatically get engaged in the event of low/ no air pressure. Buzzer warning for low air pressure. The details are to be indicated in the bid.

X. Wheels and Tyres: The Tractor should be fitted with suitable wheels with Tube & Tyre etc. of adequate ply rating and the spare wheel(s) are to be provided. Single wheels on each side of front axle and 02 Nos. of wheels on each side of rear axle (i.e total 04 Nos. of wheels in each rear axle, total 08 Nos. of wheels for 02 Nos. rear axles) shall be provided. It shall be bidder's endeavor to offer front and rear wheels of same size & type. If not possible for design constraint, two spare wheels - one for each type shall be supplied for each Tractor. Suitable lifting & mounting arrangement facility for spare wheel shall be provided. Single giant tyre(s) are not acceptable. The tyre size may be of 10.00 X 20 or 11.00 X 20 or 12.00 X20 or 14.00 X 20 or 14.00 X 24 or 425/65R-22.5 or 385/65R-22.5 or 12.00x24 or 385/95R-24, tube type tyres. The bidder shall clearly mention the tyre size of Front Wheels and Rear Wheels of the Tractor in the technical Bid. Bidder/prospective supplier to look into the tyres of Trailer unit while selecting the Tractor tyres and vice-versa for compatibility of the Tractor and the Trailer unit with each other.

XI. Electrical System: Suitable 12V/24V DC starting, charging and lighting systems are to be provided in the Tractor. (02) Nos. of adjustable search lights, mounted behind the driver cabin are to be fitted in the Tractor. Suitable reverse audio- visual (both audio alarm & blinking light) alarm is to be provided. Suitable electrical Master Switch to disengage all electrical circuits from battery to be provided in the Tractor.

- XII. Fuel Tank: 01** (one) number of lockable fuel tank of adequate capacity (around 100 US Gallon i.e 380 liters) should be provided in the Tractor unit. Suitable strainer at the opening of the tank to prevent entry of foreign materials & locking arrangement shall be provided. Cleaning facility with suitable drain plug for the tank shall be provided. Bidder shall mention the fuel tank capacity in the offered Tractor.
- XIII. Driver's Cabin:** The driver's cabin of the Tractor shall be ergonomically designed factory built (original built & supplied with chassis by chassis manufacturer) Cab with seating capacity of minimum 02 (two) persons (including Driver). The cabin interior and roof ceiling should preferably be provided with superior heat resistant materials to avoid heat radiation. All the controls should be clearly arranged to have easy access to the driver while driving the unit. Minimum one number, sliding type glass peeping window is to be provided at the rear of the cabin, if possible. The driver's seat & co-driver's seat should be comfortable and ergonomically designed with adjustable mechanism and seat belts. Two (02) numbers of Fans are to be fitted at suitable locations inside the Driver's cabin, if possible. The bidder shall clearly mention the seating capacity in the Driver's cabin.
- XIV. Accessories, fittings, Gauges etc.:**

Following fittings and accessories are to be provided/fitted in the Tractor unit:

- a. The unit shall be driven on roads in India having traffic rules for Right Hand Drive vehicles only. Accordingly, Tractor unit(s) shall be fitted with all standard accessories & fittings like lightings & electrical fittings, headlamps (photometry of the headlamps to suit "keep-left" traffic), tail lamp, parking lamp, hazard warning lights, sufficient side marker lights, rear & side reflectors, rear view mirrors at both sides, windscreen wipers, mud-guard with mud flaps, air horn in addition to electric horn etc. shall be provided including all safety features for safe movement of the unit on road.
- b. The Tractor unit(s) should be fitted with all standard gauges such as speedometer, odometer, air pressure gauges, charging system gauge, engine oil pressure gauge, engine temperature gauge, fuel gauge, Transmission oil pressure & Temperature meters (if any), hour meter etc. and any other items with warning displays, as **per OEM. The vehicle shall have Speedometer indicating the speed in Kilometers per hour and the Odometer shall be with Kilometers calibration system.**
- c. The Tractor unit(s) should be fitted with suitable heavy duty front & rear Towing Hook capable of pulling/towing the unit from bogged down situation in slushy areas in oilfields from front and rear.
- d. Each Tractor unit should be provided with 01 No. Fire Extinguisher inside Driver Cabin, 01 No. First Aid Box inside Driver Cabin, Well covered Battery Box, Standard Tool Kit as per the manufacturer in a portable box for general maintenance of the Tractor, heavy duty grease gun, wheel wrench & handle, 02 (two) Nos. minimum 50 MT capacity hydraulic jack with handle, 02 (two) Nos. of metallic stopper block for rear wheels. In case the wheel nuts at front and rear are of different size, then separate Wheel Wrench & Handle for both front & rear shall be supplied along with each unit.
- e. The engine exhaust of the Tractor unit(s) should be fitted with provided with Suitable spark arrestor.
- f. The body of the tractor should be fixed with retro reflective tape (3m make or equivalent, 50 mm width) on the front, rear and both side of the cabin as per the colour code- Front: White, Rear: Red and Sides: Yellow.

- XV. **Fifth Wheel Coupling:** The tractor should be provided with compatible "Fifth Wheel Coupling" for coupling the trailer with king pin of size not less than 2 inch (two inch). The make of "Fifth Wheel Coupling" should be of JOST/SAF/YORK/PLHT/GF or other internationally accepted reputed make. The "Fifth wheel" should be provided with fail safe locking arrangement. Height of the "fifth wheel" should match with the rubbing plate of the trailer for proper locking and engagement. It should be suitably mounted onto the tractor for proper load distribution and easy maneuverability. Proper coupling with the trailer unit is to be ensured by the bidder/prospective supplier.

The bidder shall clearly mention the Size, Make & Model of the offered Fifth Wheel Coupling and the technical leaflets/brochure of the offered model of the Fifth Wheel Coupling shall be submitted along with technical bid by the bidder.

- XVI. **Connection for Trailer:** The tractor should be provided with two pneumatic coiled hoses suitable for trailer brake connection with suitable palm coupling & suitable electrical connection to connect the trailer.
- XVII. The Tractor is to be fitted with Speed Limiting Device (SLD) & its accessories. The maximum road speed of the Tractor with Speed Limiting Device shall preferably be 50 Km/hour without affecting the other performance parameters of the Tractor in any manner. The speed limitation function shall not actuate the Tractor's service braking system. The Speed Limiting Device shall be failsafe. 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.
- XVIII. Vehicle shall be fitted with Global positioning System (GPS). Necessary certification/documentation from appropriate authority regarding the Global positioning System (GPS) is to be accompanied along with the supply.

13.2 SPECIFICATION OF THE TRAILER:

- I. The aforementioned 6 x 4 Tractor unit is to be coupled with a suitably designed "semi-trailer" mounted with the different items of the coiled tubing unit.
- II. **Capacity:** As per design and compatible with the aforementioned Tractor, GCW not exceeding 49000 Kg when the offered Tractor & Trailer unit is coupled. There should be adequate gap between trailer platform and wheels, so that wheels do not touch the platform body or any other items of the coiled tubing units mounted on the trailer while crossing speed breakers, falls in pot holes etc. and the bidder should ensure the same.
- III. **Dimension:**
(a) Length of the trailer: As per design. However, the bidder shall ensure that overall length of the tractor-trailer combination shall not exceed 18 meter.
(b) Overall width of trailer: 2.60 meters (approx.)
- IV. **Chassis Frame:** All welded construction. Robust, heavy duty chassis of Steel frame preferably of I-BEAM or RS JOIST sections suitably gusseted/welded and cross braced at close pitch to withstand the load. The chassis is to be reinforced as per manufacturer's standard practice to bear the designed load etc. The chassis should provide maximum structural performance in terms of load carrying capacity, bending moment & deflection, maximum tensional stability and long life. Skirt rails, wherever applicable/possible is to be provided along the length of the trailer. The depth/web of main girder preferably shall be not less than 450 mm. Details of the chassis frame including the size of the chassis frame offered should be clearly mentioned in the technical bid. Bidder shall submit dimensional drawing of the main girders (LH / RH) of the trailer with details along with the technical bid.

- V. **Axles:** The trailer should be provided with maximum of 03 (three) Nos. of Axles. The make of axles should be of internationally accepted reputed make. The Make & Model, capacity and the axle loading of the offered axles should be clearly mentioned in the bid and technical leaflets for the same should be submitted along with the technical bid. The Axles should be compatible with the brake system.
- VI. **Brake:** Suitable service brake system which can be operated from Tractor Driver's Cabin should be provided. The brake system should also have provision (emergency brake) for applying brake automatically to the trailer axles in case of accidental disconnection of the pneumatic connections. The trailer should have control valve for synchronized braking of "tractor and trailer" to enhance the safety. The brake system should have SAE/SMMT or equivalent palm coupling for quick coupling and detaching the air connections with the Tractor Unit. Manually operated parking brake of adequate capacity should also be provided. All brake components should be of reputed make in compatible with axles offered.
- VII. **Suspension:** Heavy duty suspension system suitable for movement of Tractor-trailer unit with full load, in bad/rough roads in oilfield areas and slushy plinths, should be provided. There should be adequate gap between trailer platform and wheels, so that wheels do not touch the platform body or any other items of the coiled tubing units mounted on the trailer while crossing speed breakers, falls in pot holes etc. and the bidder should ensure the same. Make & Model, details of the suspension offered should be mentioned in the technical bid along with submission of technical leaflet.
- VIII. **Wheels, Tyres & Mudguards:** The trailer should be fitted with suitable wheels with Tube & Tyre etc. of adequate ply rating. The tyres and tubes of suitable size and these are preferably to be interchangeable with the tractor unit. Super single giant tyre is not acceptable. The tyre size may be of 10.00 X 20 or 11.00 X 20 or 12.00 X20 or 12:00 X24, tubed type tyres. Total number of wheels per Axle shall be 04(four) numbers i.e 02 (two) Nos. of wheels in each side of the axle. Suitable mudguards are to be provided. Bidder/prospective supplier to look into the tyres of Tractor unit while selecting the Trailer tyres and vice-versa for compatibility of the Tractor and the Trailer unit with each other.
- IX. **Coupling to Tractor Unit:** Suitable rubbing plate fully welded to the chassis frame and Kingpin of size not less than 2 inch (two inch) made of forged alloy steel (SAE/SMMT or equivalent standard) should be provided. The make of the Kingpin should be of JOST/YORK/PLHT/GF/SAF or other internationally accepted reputed make. The Size, Make and Model of the Kingpin should be clearly mentioned in the technical bid and technical leaflet for the same should be submitted. Height of rubbing plate should match with the "Fifth wheel" height for proper coupling and locking.
Proper coupling, de-coupling with the tractor unit is to be ensured by the bidder/prospective supplier.
- X. **Supporting Jack/Landing Gear:** Retractable, mechanical type with sand-pad and having adequate capacity for taking the load of the trailer when fully loaded should be located conveniently at the front end of the trailer. The make of the landing jacks/legs/gear should be of JOST/YORK or other internationally accepted reputed make with static capacity and lift capacity as per design. The Make, Model and other details of the offered landing jacks/legs/gear should be mentioned in the technical Bid. The necessary technical leaflet of the offered landing jacks/legs/gear should be submitted along with the technical bid. The Landing jacks/legs/gear should be so positioned that there is sufficient clearance behind the rear end of the trailer and it does not foul with the tractor while taking turn.

- XI. Electrical Equipment:** Electrical system compatible with the electrical system of the offered Tractor should be provided in the trailer. The trailer should be provided with Tail, Stop, Flasher, Parking, Marker lights etc. as required by applicable Motor Vehicles Rule in Assam (India). Reflectors (along both side of trailer), should be provided as per the Motor Vehicle Act. Dis-connectable electrical connections with the tractor unit must be provided.
- XII. Towing attachment:** Suitable heavy duty towing hook be provided at the rear of the trailer to pull the unit from the rear from bogged down condition.
- XIII. Platform:** All welded steel construction unit with not less than 5mm thick MS chequered plate platform, wherever feasible as per design. Trailer decks shall be non-slip type.
- XIV. Drawing:** The bidder should provide an Engineering Drawing (along with the **technical** bid) comprising all the aforementioned technical specifications including trailer chassis frame size, inner cross member size, positions for our evaluation.
- XV. Painting:** Surface preparation shot blasting. Minimum two coats of ZINC RICH metal primer should be applied. Final two coats of ENAMEL COLOUR PAINT should be applied.
- XVI.** Notwithstanding anything mentioned in this tender, the trailer should be provided with all applicable safety items, standard accessories, fittings etc. Wherever feasible, following are also to be provided:
- (a) SUPD- Side under run Protection Device as per IS: 14812/ **applicable** standard.
- (b) RUPD- Rear under run Protection Device as per IS: 14682/ **applicable** standard.
- (c) Retro Reflective markings as per AIS: 090 / **applicable** standard.
- XVII. Information Plate:** The trailer should have a VIN plate fixed in a suitable place below the trailer (easily visible) containing, amongst others, the following information (a) Serial Number (b) Year and Month of manufacturer (c) Pay Load capacity (d) Name & Address of manufacturer etc.
- XVIII.** All equipment are to be mounted on the trailer so that clear access is available for regular en-route inspection and maintenance of the Trailer King Pin, King Pin bolts etc.
- XIX.** Mounting brackets provided for all components including injector, tubing reel, hose reels, bop and cabin.
- XX.** A mount for injector shall be provided on trailer deck to allow tubing to remain stabbed. The two front mounting pins are long to enable easy mounting. An injector rest is mounted on the trailer deck.
- XXI.** Provision for mounting of the short injector maintenance legs and injector long legs shall be provided at a suitable position.
- XXII.** Provision for mounting of the under deck mounted hose package for interconnection of cabin, reel and control hoses shall be provided.
- XXIII.** Heavy duty manual landing gear provided with handle on passenger's side.
- XXIV.** Trailer decks are non-slip surface type.
- XXV.** Fold-down platforms are provided on each side of trailer to access the tubing reel.

- XXVI.** Fold-down aluminum ladders are provided on each side of the trailer for access to the lower deck, steel grab handles provided.
- XXVII.** A carbon steel drip pan is installed under the tubing reel having maximum width not crossing maximum trailer width.
- XXVIII.** Tubing reel lubrication reservoir is mounted on the trailer deck.
- XXIX.** Trailer has full light package including side running lights.
- XXX.** (Two) Nos. tool box shall be provided, mounted on trailer's lower deck (without disturbing the ground clearance as mentioned elsewhere).
- XXXI.** Two (2) swiveled work lights shall be provided on lower deck.

XXXII. OTHER FITTINGS & ACCESSORIES:

- A.** Since the vehicle will be driven on Indian roads having traffic rules for Right Hand Drive vehicles only, sufficient and suitable Side, Repeater & Top marker (for Tractor Unit) lights, Hazard warning lights, rear, side & front reflectors, Head Lamps (for Tractor Unit, photometry of the headlamps to suit "keep-left" traffic), Parking Lamps, Direction Indicator Lamps, Tail Lamps, Stop Lamp, Fog Light, Windscreen Wiper (electrically operated, for Tractor Unit)), large rear view mirrors at both sides of the Tractor unit, side under run protection device (SUPD) for Trailer unit if possible, rear under run protection device (RUPD) for Trailer unit if possible etc. as well as Air Horn in addition to Electric Horn shall be fitted in the unit(s) for safe road movement as per OEM. All the vehicle controls must be easily accessible to operate by the Driver inside the Driver's cabin while driving the unit(s).
- B.** All lights shall be covered to the extent possible with suitable guard to prevent damage. All electrical fittings / components / connections shall be suitable to operate in oilfield area.
- C.** It shall be bidder's endeavor to provide the Engine Oil Pressure & Temperature meters, Air pressure meter, Transmission oil pressure & Temperature meters (if any) with high low warning buzzers.
- D.** Suitable Reversing Audio Alarm with Blinker lights at rear of the unit.
- E.** Suitable Air Dryer preferably with replaceable type filter element, unloader valve & circuit protection valves should be provided for pneumatic circuits of the entire unit.
- F.** Well covered & non conducting material wrapped preferably vertical exhaust to be provided.
- G.** Suitable heavy duty front & rear Towing Hook capable of pulling / towing the unit from bogged down situation in slushy areas in oilfields from front as well as rear.
- H.** Electrical items like starter, alternator etc. shall be of internationally accepted reputed make as per OEM.
- I.** Suitable electrical Master Switch to disengage all electrical circuits from battery.
- J.** Suitable spark arrestor for engine exhaust for operation in oilfield area.

XXXIII. Laden Weight: Laden Weight of the Unit shall be within Maximum Permissible Gross Combination Weight (i.e. Sum of Axle Capacities of all axles i.e. GCW) of the unit.
 [Laden Weight means – Weight of the complete unit with all equipment & fittings i.e. weight of the chassis with driver's cabin + weight of all coiled tubing equipment permanently mounted on the unit + weight of other tools, accessories, etc. generally being carried / kept in the unit, spare wheels, hydraulic & diesel oil, etc. Accordingly, Laden Weight is the sum of actual loading on each individual axle.]

XXXIV. Hydraulically operated suitable mechanism preferably Out Riggers and Jacks with Jack Plate (sand-pad) etc. along with levelling indicator for levelling and stability of the unit required during the operation is to be provided in the unit to enable the wheels free from load etc. Details of the mechanism to be provided are to be submitted in the technical bid.

14.0 ADDITIONAL EQUIPMENT:

The following additional items are required in conjunction with the operation and maintenance of the unit.

14.1 SPARE TUBING REEL:

The bidder should offer suitable continuous tubing made out of high strength alloy steel of Standard CT 900 as per API 5ST

Specification: 1.5"OD X 0.109" Wall thickness

Operation in 5500 m maximum depth oil and gas wells. The continuous tubing should have the following specifications:-

Outer Diameter: 1.5"

Wall Thickness: 0.109" Wall thickness

Length of the continuous Pipe: 5500m/18040ft (approx.)

Plain end weight: 1.621lbs/ft

Pipe body yield load: 42,870lb

Internal yield pressure: 12,480 Psi

Hydrostatic test pressure: 10,000 psi

Torsional yield strength: 1340ft.lbs

Minimum Yield Strength: 90,000 psi

Minimum tensile strength: 98,000 psi

Maximum hardness: HRC22

Material: as per API 5ST

Heat treatment: Full body of the coiled tubing must be heat treated, quenched and tempered and the coiled tubing should be properly stress relieved and rolled flash-in.

Note:

- 1) Spool shall be made of metal of appropriate grade and the tubing must be plastic wrapped. Spool shall be properly protected by 0.5 to 1"x 4" wood around the diameter of the flange. There must be at least 2" of freeboard (tolerance) between the full reel and outside diameter of the flange.
- 2) Each coiled tubing reel (both inside and outside of the tubing) shall be protected from corrosion as per API 5ST latest edition.
- 3) Outer end connection of the coiled tubing shall have 2" FIG: 1502 threaded half male union.

14.2 SPOOLING REEL:

Auxiliary skid mounted spooling reel with necessary hydraulic hoses with quick joint connections, necessary fittings for loading and unloading of coil and to be powered by CTU itself to load and unload the Coiled Tubing: 1 (one) no. The Auxiliary skid mounted Spooling reel shall be compatible with the Spare tubing reel i.e. Hub diameter of spare reel (6")

14.3 TOOLS:

The following tools shall be supplied along with the unit. The price of the tools shall be included in unit cost of the Coiled Tubing Unit.

A. A set of special tools for working in the deck engine and for hydraulic components to be supplied.

- | | |
|--|---|
| i) Tubing roll on connector | = 4 (Four) nos. |
| ii) Tubing connectors (Light & Heavy duty) | = 2 (two) each i.e. External Slip (2nos) & External slip cum grub screw (2 nos), Connections 1.5" AMMT Pin. |
| iii) Tubing rolling tools | = 2 (two) nos. |
| iv) CT cutters & rollers | = 2 (two) each (1.75 inch, 2.065" and 2.125 ") |

- v) Nozzles of various types = 2 set (Multiple port, Mule Shoe, combination of up flow & down flow)
- vi) Slim hole motor (1.11/16"OD) with different drill bits & milling bits (size 1.7/8", 2", 2.1/8", 2.3/6" & 2 1/4") = 2 sets
- vii) One set of Lubricator Assembly of the following specifications:
 - a) 4 sections of 10 feet each
 - b) Top connection adaptable with the Stuffing Box connection & Bottom connection adaptable to supplied BOP's top connection.
 - c) 5000 psi working pressure
 - d) 3.06 inches ID.
- viii) Threading snake for specified Coiled Tubing Size = 2nos.
- ix) Rotary wash tool for specified end connectors (slip type) = 2nos.
- x) Cold roll connector for jointing coil tubing for specified CT = 4nos.
- xi) 1 Nos. NRV/Check valve (Double flapper type) for 1.5" CT. Connections 1.5" AMMT box.
- xii) 1 no. of hydraulic release tool for 1.5" CT. Connections 1.5" AMMT box.
- xiii) 1 No Motor Head Assembly for 2 1/8" motor (shall include double flapper check valve, hydraulic disconnect, circulation sub and rupture disc in one assembly.) Connections 1.5" AMMT box
- xiv) Roto hammer + Intensifier (2 1/8" OD) = 2 sets
- xv) 10" pipe wrench = 4 nos
- xvi) 14" pipe wrench = 4nos
- xvii) 24" Pipe Wrench = 6nos
- xviii) 36" Pipe Wrench = 2nos
- xix) C Wrench = 4 nos.
- xx) Grip vice = 4nos (Heavy and light duty)
- xxi) Combination Wrench: a) Metric: 3 Set
b) British: 3 Set
- xxii) Screw Driver Set: 4 Set
- xxiii) Allen-Key Set: 4 Set
- xxiv) Ball-Peen Hammer: 2 nos
- xxv) Tool Box = 3 nos
- xxvi) Belt for unscrewing filters: 4 nos
- xxvii) All tools shall be compatible with 1.5" Coiled tubing and supplied CT end Connectors
- xxviii) Crossover from 1.5"AMMT to 1.5" Hydril (Pin on both ends): 3nos.
- xxix) Crossover from 1"AMMT to 1" Hydril (Pin on both ends): 3nos.

15.0 SPARES:

15.1 COMMISSIONING SPARES:

The Supplier has to supply all the spare parts and consumables (such as hydraulic oil, lube oil etc.) required for initial commissioning of the unit.

15.2 OPERATIONAL CRITICAL SPARES:

The Supplier shall supply the following operational critical spares along with the Units. The price of the spares shall be included in unit cost of the Coiled Tubing Unit.

i) AUTOMOBILE SPARE PARTS LIST:

Following spares in specified quantity as indicated shall be supplied along with the unit. Specific description, part Nos., Make, Quantity etc. shall clearly be indicated in the bid.

A.1. TRACTOR ENGINE:

1.	Fuel Filter Element -	10 Nos.
2.	Water Separator Filter Element -	10 Nos.
3.	Engine Oil Filter Element -	10 Nos.
4.	Air Filter Element -	10 Nos.
5.	Water/Corrosion Filter Element -	05 Nos.
6.	Fan Belt -	04 Nos.
7.	Alternator Belt -	04 Nos.
8.	Air Compressor Belt -	04 Nos.
9.	Water Pump Repair Kit -	02 Sets of all the items.
10.	Radiator Water Hose -	04 Nos.
11.	Engine Mounting -	01 Set of all the mountings

A.2. DECK ENGINE –

1. Fuel Filter Element – 10 Sets.
2. Water Separator Filter Element - 10 Nos.
3. Engine Oil Filter Element - 10 set.
4. Air Filter Element - 10 Nos.
5. Fan Belt/ Alternator Belt/ Compressor Belt - 02 Sets.
6. Water Pump Repair Kit - 01 Set.
7. Radiator Water Hose- 3 nos.

B 1.1 TRANSMISSION (TRACTOR) – In case of Fully Automatic Transmission:

1.	Transmission Filter Element	6 Sets
2.	Transmission Mounting	6 Sets
3.	Gear Shifter (one inside driver's Cabin)	2 Nos.
4.	Gear Shifter Repair Kit	4 sets
5.	Gear Shifter Hoses	6 Sets
6.	Sensor Assembly, Speed	6 Nos.
7.	Kit Filter Assembly, Suction	6 Sets
8.	Harness-Wiring, Internal HDS	4 sets
9.	Switch Assembly Pressure	4 sets
10.	Solenoid Assembly -Forward	6 Nos.
11.	Sensor Assembly Oil Level	10 Nos.
12.	Solenoid Assembly C6	10 Nos.
13.	Kit-Remote Filter Maintenance	6 Sets
14.	Sensor Assembly Speed Rotation	6 Sets
15.	Transmission Control Module	1 No.

B.1.2 TRANSMISSION (TRACTOR) - IN CASE OF AUTOMATED TRANSMISSION:

1.	Transmission Filter	6 Sets
2.	Transmission Mounting	6 Sets
3.	Gear Shifter (one inside driver's Cabin)	2 Nos.
4.	Clutch Disc Assembly	2 Nos.
5.	Pressure Plate Assembly	2 Nos.
6.	Release Bearing	2 Nos.
7.	Release Bearing Fork	2 Nos.
8.	Input shaft speed sensor, if any	6 Nos.
9.	Clutch position sensor, if any	6 Nos.
10.	Shift lever position sensor, if any	6 Nos.
11.	Fluid pressure sensor, if any	6 Nos.
12.	Temperature sensor, if any	6 Nos.
13.	Sensor Assembly, Oil Level, if any	6 Nos.
14.	Transmission Control Module, if any	1 No.
15.	Cooler Assembly for Transmission Oil, if any	1 No.

B 2. TRANSMISSION (Deck Engine):

Spares for two (2) years maintenance of the power transmission system from engine to pump drive should be supplied along with the unit.

C. TRACTOR FRONT AXLE:

- | | | |
|----|-------------------------------------|------------------------------|
| 1. | Wheel Stud with Nuts (Left Side) - | 20 Nos |
| 2. | Wheel Stud with Nuts (Right Side) - | 20 Nos. |
| 3. | Wheel Hub Oil Seal - | 04 Sets of all the Oil Seal |
| 4. | Wheel Hub Bearing - | 04 Sets of all the Bearings. |

D. TRACTOR REAR AXLES:

- | | | |
|----|--|---------|
| 1. | Wheel Stud with Nuts (Left Side) - | 40 Nos. |
| 2. | Wheel Stud with Nuts (Right Side) - | 40 Nos. |
| 3. | Axle Stud with Nuts (Left Side) - | 40 Nos. |
| 4. | Axle Stud with Nuts (Right Side) - | 40 Nos. |
| 5. | Wheel Hub Oil Seal - | 16 Nos. |
| 6. | Wheel Hub Bearing - | 08 Nos. |
| 7. | Differential Oil Seal - | 08 Nos. |
| 8. | Differential Filter Element (if any) - | 02 Nos. |

E. TRACTOR DRIVELINE (Propeller Shaft):

- | | |
|----|--|
| 1. | UJ Cross (Spider & Bearing)-02 Set*
(*Each set shall comprise all the different UJ crosses in complete required for the drivelines) |
| 2. | Centre Bearing with Rubber Cushion Assembly (if any) - 02 Nos. |

F. TRACTOR STEERING:

- | | | |
|----|---|--------------------------|
| 1. | Steering Oil Filter Element - | 04 Nos. |
| 2. | Steering Pump Repair Kit - | 01 Set of all the items. |
| 3. | Steering Cylinder Repair Kit - | 02 Set |
| | (*Each Set shall comprise of all the required items for one cylinder) | |
| 4. | Tie Rod End (Left side)- | 02 Nos. |
| 5. | Tie Rod End (Right side)- | 02 Nos. |

G. TRACTOR BRAKE & PNEUMATICS:

- | | | |
|----|--|--------------------------------|
| 1. | Foot Brake Valve Repair Kit- | 03 Sets |
| | (*Each Set shall comprise of all the required items for one overhauling) | |
| 2. | Foot Brake Valve- Assembly- | 01 No. |
| 3. | Brake Servo Assembly-Front Wheel - | 02 Nos. |
| 4. | Brake Servo Assembly-Rear Wheel- | 04 Nos. |
| 5. | Air Dryer Filter Element- | 08 Nos. |
| 6. | Repair Kit for all major Pneumatic Valves - | 01 Set for each Valve |
| | (Circuit protection valve, relay valve, etc.) | |
| 7. | ECM for ABS - | 01 No. |
| 8. | Sensors for ABS- | 01 complete Set of all Sensors |

H. SPARES FOR TRAILER:

- | | | |
|----|-------------------------------------|---------|
| 1. | Wheel Stud with Nuts (Left Side) - | 40 Nos. |
| 2. | Wheel Stud with Nuts (Right Side) - | 40 Nos. |
| 3. | Brake Servo Assembly- | 04 Nos. |

I.1. ELECTRICAL COMPONENTS OF DECK ENGINE-

- | | | |
|----|---------------------|----------|
| 1. | Engine Self Starter | - 01 No. |
| 2. | Charging Alternator | - 01 No. |

I.2. ELECTRICAL COMPONENTS OF TRACTOR ENGINE-

- | | | |
|----|--------------------------|--------|
| 1. | Engine Starter Assembly- | 01 No. |
| 2. | Alternator Assembly - | 01 No. |

J. INSTRUMENTATION-

- | | | |
|----|---|----------------------|
| 1. | Shifter Relays - | 6 Nos. |
| 2. | Mother board (as per user model) - | 01 Set. |
| 3. | Male Female connector – | 01 set for each type |
| 4. | Engine tachometer- | 01 No |
| 5. | Depth sensor - | 01 No. |
| 6. | Spare Connector and cables for Depth meter- | 01 set |
| 7. | Electronic depth meter – | 01 no |
| 8. | Pressure gauges – | 01 set |
| 9. | Temperature gauges – | 01 set |

ii) COILED TUBING UNIT – SPARES PART LIST :

1. Hydraulic strainers and filters: 5 set. (1 set shall comprise of all the filters/elements and strainers fitted in the hydraulic circuit of the unit).
2. Load cell diaphragm : 4 nos
- 3 Traction Cylinder repair kit: 4 set
4. Traction cylinder: 4 nos
5. Tension Cylinder: 4 nos.
6. Tension Cylinder repair kit: 4 nos.
7. Bearing with housing (Idler chain sprocket) – 4nos.
8. Repair kit for chain tension system/hydraulic cylinders: 1 complete set
9. Spooler arm Up/Down hydraulic cylinder repair kit 2 set
10. Reel swivel hydraulic cylinder repair kit: 2 set
11. Cabin lift hydraulic cylinder repair kit: 2 set
12. Injector Chain gripper block assembly: 01 set (total no of insert for the whole chain assemblies)
13. Gripper block insert: 01 set (total no of insert for the whole chain assemblies)
14. Goose neck roller: 01 set (comprising of all types of roller for each sizes fitted in the goose neck)
15. Interlock Packer/Stripper, stuffing box: 20 nos
16. Stripper / stuffing box repair kit: 2 set
17. BOP repair kit: 4 set
18. Inner seal, pipe ram: 4 nos
19. Slip insert: 2 nos
20. Rotary joint repair kit (Coiled tubing reel assembly): 2 Sets
21. 1.5” pitch link chains for guying injector 15m length: 4 nos
22. Load Binder for 1.5” chain (for guying injector): 4 nos
23. Hydraulic Motor seal kit: 1 set against each motor

NOTE –

- a. All spares in specified quantity as indicated above shall be supplied along with the unit.
- b. Specific description, Part Nos., Make etc. shall clearly be indicated in the bid.
- c. Bidder shall also quote separately for any additional spares with similar details as felt necessary for 2 (two) years trouble free operation and maintenance but not covered in this list for future reference/ procurement- **NOT FOR BID EVALUATION.**

15.3 RECOMMENDED SPARES:

The bidder is to furnish a list of spares & components that will be required for regular operation and maintenance, overhauling etc. throughout the life of the equipment complete with price of each item. Annual consumption of each spare shall be furnished. The bidder shall also provide detailed spare list of all the items including bought out items in the operation and maintenance manuals. The list should include a spare parts list along with OEM part numbers, make & model of the equipment and contact postal address of OEM for all items of the whole unit. **THE PRICE QUOTED FOR RECOMMENDED SPARES WILL NOT BE TAKEN IN TO ACCOUNT FOR BID EVALUATION.** The bidder has to submit a complete spare parts list for the whole unit sub grouping major component in the following format as shown with example:

Name of the component /sub com.	Description of the item	Part No/ID No Of the item	Frequency of replacement (in day / Hrs)	Remark
Injector	Filter Bearing and so on indicating make & model	XX YY	359 / 5000	Donaldson Timken /SKF

Hydraulic System	Pump motor and so no indicating make & model	XY X1Y1	500 / 10000	Rexroth -do-
Instrumentation items	Tubing depth display etc.			Part no. Make and part no of the subunits are also to be provided.
Tractor Item				
Trailer Item				

15.4 The bidders shall submit a written undertaking (along with the bid) that they would be able to supply all the requisite spares and consumables (including bought out items) for a minimum period of 10 (ten) years from the Certified date of completion / successful field commissioning of the unit.

16.0 UNITIZATION AND COMPLETION:

The above unit shall be fully assembled, unitized and completed as per best industrial practice. This shall include the following items:

- i) Installation of all electrical systems.
- ii) Installation of all pneumatic systems.
- iii) Installation of all hydraulic systems.
- iv) All operating oils, coolants and other operating fluids will be drained prior to shipment.
- v) All fixtures to ship complete with the unit.
- vi) Steel toolbox with locking arrangement of sufficient volume to accommodate all operational tools
- vii) All tanks (Fuel, Hydraulic oil etc) shall be fitted with suitable filter and locking arrangement
- viii) All labour to complete unit.
- ix) Workmanship shall be of good quality and appearance. Following is a partial list of example:
 - a) Flame cut edges shall be ground smooth. Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth.
 - b) Bolt holes shall be drilled (not torch cut)
 - c) Welds shall be of good quality and of sufficient strength.
 - d) Use self-locking nuts.
 - e) All hoses shall be well supported with support type clamps.
 - f) All hose assemblies shall have swivel ends.
 - g) All hoses shall be protected by well secured rubber sleeves to prevent rubbing by frame, etc tagged for easy identification
 - h) All reservoirs constructed of steel plate with level gauge, cleanouts, vent fill cap, etc.
 - i) Noise level for the complete unit in running condition shall not cross 90 db.

17.0 STANDARDS:

The complete unit shall be built under the quality standards of-

I. Emission norms: As per notification issued by the Government of India, the applicable emission norms for vehicles in India shall be **BS-VI / EURO-VI** with effect from 1st April, 2020. Hence, the offered Tractor unit shall have to comply with the emission norms **BS-VI / EURO-VI**. The Tractor unit shall be equipped with an On-Board Diagnostic system conforming to relevant OBD norms, if applicable.

II. ASME standards

18.0 TECHNICAL MANUAL AND CERTIFICATION FOR OPERATION AND MAINTENANCE OF THE UNIT:

The following Manuals & Catalogues **in printed form (in English language)** shall be supplied along with the unit in addition to the supply of the same in Compact Disk (CD).

Supply of the manuals / catalogues only in Compact Disk is not acceptable. Manuals / Part Catalogues provided shall be Custom Illustrated Manuals / Catalogues for the particular vehicle and equipment only, not a general Composite Manual / Catalogue.

- A. 4 (Four) sets of printed Spare Parts Catalogue and Workshop & Service Manual (in English language) for all components/systems of the Tractor and the Trailer like Engine, Transmission, Front Axle, Rear Axles, Differentials, Drivelines, Brake System, ABS, Front Suspension, Rear Suspension, Steering, Electrical & Pneumatic Systems etc. with complete schematics of electrical & pneumatic circuits. Supply of the manuals/catalogues only in compact disc (CD) format is not acceptable. Similarly, 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.
- B. 2 (two) sets of Operator's manual for vehicle.
- C. 2 (two) sets of printed Spare Parts Catalogue and Workshop & Service Manual for deck engine.
- D. 2 (Two) sets of Engine Fault Diagnostic & Repair Tool manuals in case of engine with Electronic Controller System. Engine Fault Diagnostic & Repair Tool for Tractor Engine is not required.
- E. The bidder has to supply 4 sets of operating, maintenance and spare parts manual detailing maintenance schedule for daily maintenance, preventive maintenance, major overhauling and frequency of spares replacement for all the components of the unit. The operation and maintenance manual shall also contain details of all sub-assemblies, instrument sensors, wiring diagram, hydraulic schematics with color code and entire requisite spare parts with part no. (Preferably OEM part no.) with detailed contact address.
- F. 4 (Four) copies of all relevant test and quality control certificates of the manufacturing and testing of all unit functions and parameters shall be supplied.
- G. 4 (Four) sets of all relevant test and calibration certificate for each instrument shall be supplied along with the unit.
- H. The necessary licensed software in original packages along with user software backups are also to be supplied.

COMMISSIONING OF THE UNIT SHALL NOT BE CONSIDERED AS COMPLETE UNTIL & UNLESS ALL ABOVE PRINTED MANUALS / CATALOGUES ARE SUPPLIED.

19.0 INSPECTION CUM ACCEPTANCE

19.1 Third Party inspection of the unit is to be carried out for all the component of the unit by OIL approved TPI agency (viz M/s Lloyds, M/s Bureau Veritas, M/s IRS, M/s Rites, M/s DNV or M/s TuboscopeVetco only). Scope of 3rd party inspection:

- (i) Witness the manufacturing and assembly
- (ii) Witness the functional and performance tests
- (iii) Review of inspection procedure
- (iv) Review of tests and documents related to all pressure holding equipment.
- (v) Any other requirement of the inspection agency to satisfy of the equipment as per applicable standards.

19.2 Pre shipment inspection shall be carried out by OIL (by representative of user section i.e. OGPS Department, WSS&ALP section as well as service dept. viz. Instrumentation, Logistics, Field Engineering, Materials etc.) at manufacturing site after accomplishment of Third Party Inspection (TPI). The supplier shall inform OIL at least 2 (two) month ahead for such inspection to enable OIL to send its inspectors. The supplier has to arrange for inspection of the unit by a team of 6 (six) OIL's engineers. OIL will bear the expenses towards traveling and accommodation etc. of the OIL's inspection team. The Inspection cum Acceptance process would include the following minimum steps/tasks but not limited to -

- a.** Physical verification / inspection of all the items / fittings / accessories including all Parts Catalogue, Maintenance & Service Manuals, Final Chassis Built Up/Vehicle Content Record documents, etc.. The supplier shall arrange driver and operator, weighing facility and any other infrastructure during the process of inspection as and when required.
- b.** Operational testing of the carrier.
- c.** Supplier shall have to take note of any minor modification/s for operational requirement suggested by the inspector and comply with the same at no extra cost.
- d.** The inspection report shall be prepared at the end of the inspection and jointly signed by both the parties.
- e.** 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 inspector after arrival at Duliajan.

19.3 Supplier shall dispatch only on receipt of OIL's dispatch advice.

20.0 TRAINING TO OIL PERSONNEL ON CTU SYSTEM:

The supplier shall have to provide training to OIL personnel in two (02) phases –

20.1 During the pre-dispatch inspection visit of OIL's personnel the supplier shall arrange comprehensive training at their manufacturing plant/works for a period of minimum 2(two) weeks on Operation & Maintenance, Troubleshooting and Working Principle of following system/items used in the unit amongst other relevant subjects –

- i) Engine and its Electronic Controller System (for both tractor & deck engines.)
- ii) Transmission and their control systems.
- iii) Brake & ABS - including their electronic control system.
- iv) Power assisted steering system including hydraulic pump and gearbox.
- v) Pneumatic system for brake, transmission, PTO shifters including different valves.
- vi) Hydraulic system
- vii) Control Panel
- viii) Injector & BOP maintenance
- ix) CTU operation & trouble shooting
- x) CT software training

20.2 During installation and commissioning of the unit, the commissioning engineer shall have to provide field training as well as class room training for a period of minimum 1 (one) week to OIL's Engineers and technicians on Operation, Maintenance, troubleshooting, Working Principle and repair/ replacement of different equipment.

The travel and living expenses of OIL personnel for the training organized at suppliers work site/factory will be borne by OIL.

Bidders shall quote their training charges separately for evaluation purposes. The charges shall be shown in Commercial bid only.

21.0 COMMISSIONING:

21.1 The unit shall be commissioned at Duliajan, Assam, India with 3 (three) successful field jobs after arrival of the Supplier's Commissioning Engineer within a period of 2(two) weeks time.

21.2 The successful bidder shall quote for commissioning charges which shall include the to and fro charges, food & lodging and daily charges of the personnel. OIL will provide accommodation (on payment basis) subject to availability. OIL shall provide local transportation to the commissioning personnel.

21.3 The commissioning engineer shall be available at site within fifteen (15) days of the intimation given by OIL for commissioning the unit.

21.4 Bidders shall quote commissioning charges separately for evaluation purposes. The charges shall be shown in Commercial bid only.

22.0 GUARANTEE / WARRANTY:

The bidder shall offer a period of at least 1 (one) year warranty for the entire equipment supplied from the date of successful field commissioning of the entire equipment. OIL reserves the right to inspect, test and if necessary reject any part / parts after delivery at site (including incomplete manuals, catalogues, etc.) in case of any fault on the part of the supplier. It shall in no way be waived by the reason that the unit / item was previously inspected and passed by OIL as per Inspection Clause detailed elsewhere in the NIT. To keep the unit fully operational, in case of failure of any item during the warranty period, it shall be the supplier's responsibility to arrange replacement / repairing at site at their cost including customs, freight, etc. within a period of maximum 3 (three) weeks from the date of notification of such failure and warranty for such items shall be extended accordingly.

23.0 DEVIATIONS FROM THE SPECIFICATIONS:

The bidder shall enclose comprehensive list of intended deviations from the technical specifications, if any, clearly highlighting the reasons thereof, along with the bid. Deviations from the Technical specifications if intended, the same shall be confirmed in the offer. But OIL reserves the right for acceptance or rejection of the deviation(s).

24.0 BID SUBMISSION & DOCUMENTATIONS:

Bidder's response to all NIT stipulations shall 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 encouraged.** 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.

24.1 Following documents shall be submitted along with bid for evaluation –

A.

1. Technical leaflets having details such as make, model, specifications of all the components to be installed by the manufacturer of the unit including detailed hydraulic circuit diagram, pump drive, clutch, all hydraulic components such as pump, filters, valves etc.
2. Technical leaflets with detailed specifications; Make & Model of **deck engine**, transmission, power take off, transfer case (if any) etc.
3. The bidder has to submit GA (General Arrangement) drawing of the offered complete unit **(including Tractor & Trailer combination i.e tractor & trailer coupled condition etc.)** along with dimensions of the unit and position of all major components & their mounting on the vehicle.

4. List of tools that shall be supplied under Standard Tool Kit for general maintenance of the vehicle.
5. Specific description, Part Nos., Make, etc. (for bid evaluation) as detailed in the **Operational Critical Spares** List provided in para 15.2 above.
6. List of Recommended Spares in para 15.3 above.
7. Checklist as per enclosed format shall be furnished along with the bid.
8. The weight of individual major equipment to be mounted on the trailer.
9. Technical leaflets with detailed specifications, Make & Model of the offered Tractor Unit, Tractor Engine, Tractor Transmission, Tractor Front Axle, Tractor Rear Axles, Tractor Front Suspension, Tractor Rear Suspension, Tractor Steering System, Tractor Brake System, Fifth Wheel Coupling, Trailer Kingpin, Trailer Suspension System, Trailer Axles etc.
10. Bidder shall submit dimensional drawing of the trailer and its MAIN GIRDERS (LH / RH) with details along with the technical Bid.
11. Any other documents, leaflet, drawing etc. as per respective clauses.

24.2 Following documents are to be submitted along with supply / unit:

- A.** 3 (three) sets of hard copy and in CD format for operation and maintenance manual for the Unit having details such as make, model, specifications of all the components installed by the manufacturer of the unit.
- B.** 2 (two) sets of hard copy and in CD format for operation and maintenance manual, service manual of the deck engine along with parts catalogue provided by the engine manufacturer.
- C.** 2 (two) sets of hard copy and in CD format for operation and maintenance manual containing detail hydraulic circuit diagram, details of pump drive, clutch, all hydraulic components such as pump, filters, valves etc. including parts catalogue. A list of critical hydraulic and pneumatic hoses installed in the unit along with their size, length, pressure rating should be included.

D. For Tractor:

Invoice, Sale Letter (certificate), Pollution & Roadworthy Certificate (in similar format of Form 21, 22 & 22A of Indian Motor Vehicle Act - sample copies enclosed), Emission Norms Certificate etc. in the name of Oil India Limited, Duliajan, Assam-786602 as required under Indian Motor Vehicle Act for registration of the unit(s) in the name of Oil India Limited, Duliajan, Assam-786602 with government transport authority in Assam in India.

E. For Trailer:

Invoice, Sale Letter (certificate), Roadworthy Certificate (in similar format of Form 21, 22 & 22A of Indian Motor Vehicle Act - sample copies enclosed) etc. in the name of Oil India Limited, Duliajan, Assam-786602 as required under Indian Motor Vehicle Act for registration of the trailer along with the aforementioned Tractor unit in the name of Oil India Limited, Duliajan, Assam-786602 with government transport authority in Assam in India.

- F.** Final Chassis Built Up/Vehicle Content Record documents.
- G.** Specification Sheet of the unit with all details like Make & Model of Tractor Unit, Engine, Transmission, GCW, Axle Capacity, Axle Loading, Number of Axles, Wheels & Tyres, Overall Dimensions, minimum Turning Radius, Ground clearance etc.
- H.** Certificate of Origin for the Tractor Unit in original from chassis manufacturer. Amongst others, the certificate shall contain following information:
 - i. Make & Model of Tractor Unit.
 - ii. Vehicle Identification Number (VIN) i.e. Chassis Number.
 - iii. Month & Year of Manufacture of the Tractor Unit.
- I.** Pencil print of Vehicle Identification Number (VIN) i.e. Chassis Number of Tractor & Trailer.

- J.** Design approval of the trailer from competent authority.
- K.** **Notwithstanding any clause mentioned elsewhere in the NIT, the invoice for the complete unit shall be submitted in 02 (two) parts separately as under:**
- i) **Invoice for Tractor Unit & Trailer Unit** - it shall include the cost of the tractor and Trailer only.
 - ii) **Invoice for Coiled Tubing unit** - it shall include cost of all equipment, tools, accessories, etc. subsequently fitted in the trailer as well as supplied separately along of the unit.
- L.** **Type Approval Certificate/COP for the complete vehicle is to be provided along with the supply as the same would be required for custom clearance of the units as per prevailing Indian import policy conditions/guidelines. In this regard, the bidder is requested to note the conditions given in Chapter-87 of ITC (HS), 2012, Schedule-1-Import Policy, Section: XVII of India.**

It is to be noted that the Type Approval Certificate should be obtained from international accredited agencies approved by Directorate General of Foreign Trade (DGFT), Ministry of Commerce & Industry, New Delhi. The list of international accredited agencies approved for issuance of Type Approval Certificate/COP is available on DGFT website, under Policy Circular No. 26 (RE-2003)/2002-2007 dated 9.2.2004 pertaining "Type Approval Certificate issuing agencies under Policy Condition Number 7 and 9 of Chapter 87 of ITC (HS), 2012, which further amended vide Policy Circular No. 12 (RE-2013)/2009-2014 dated 15th January, 2014 issued by Ministry of Commerce & Industry, Department of Commerce, Director General of Foreign Trade, New Delhi. Bidders shall ensure adherence to any subsequent revisions to the above referred Policy Circulars that may be issued in future by DGFT.

25.0 CONFORMITY TO THE NIT SPECIFICATIONS:

- (i) Bidder shall fill the Technical datasheet enclosed with the offer.
- (ii) The total axle capacity shall be at par with the GVW with all equipment.
- (iii) Detailed specifications of Mechanical, Electrical, Pneumatic and Hydraulic systems including relevant instrumentation details shall be provided.
- (iv) The bids and the accompanied technical documentation must be in English language only.
- (v) Bidder must undertake that the provision for supplying spares (including bought out items) of the equipment will be continued for next ten (10) years from the certified date of completion / successful field commissioning of the unit.
- (vi) The bidders are to confirm categorically the commissioning clause as mentioned in 20.0 of Technical Specification.

26.0 SAMPLE COPY OF FORM 21, 22 & 22-A (as referred above)

A. SAMPLE COPY OF FORM 21:

Following is a sample copy of **FORM 21 of Indian Motor Vehicle Act** only. The certificate shall contain following minimum information -

FORM 21

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

SALE CERTIFICATE

(To be issued by manufacturer/ dealer 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** on(date).....

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 No.)
5. Horse power and cubic capacity
6. Fuel used
7. Number of cylinders
8. Month and year of manufacture
9. Seating capacity (including driver)
10. Unladen Weight
11. Maximum axle weight & number &
description of tyres (in case of transport vehicle)
 - (a) Front axle
 - (b) Rear axle
 - (c) Any other axle
 - (d) Tandem axle
12. Colour
13. Gross vehicle weight
14. Type of body
15. Wheel Base
16. Type of vehicle

Signature of the Manufacturer /
Dealer or Officer of defence Department

*Strike out whichever is not applicable.

B. SAMPLE COPY OF FORM 22:

Following is a sample copy of Indian Motor Vehicle Act only. The certificate shall contain the following minimum information. –

FORM 22

[See Rules 47 (g), 115, 124(2), 126-A and 127(1), 127(2)]

**INITIAL CERTIFICATE OF COMPLIANCE WITH POLLUTION
STANDARDS, SAFETY STANDARDS OF COMPONENTS AND ROAD-WORTHINESS**

(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, including the following mass emission norms:

Brand name of the vehicle	:
Chassis number	:
Engine number	:
Sub-rule No.....of rule 115	:
Emission norms	:

Signature of Manufacturer

[Form 22, 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.]

C. SAMPLE COPY OF FORM 22(A)

Following is a sample copy of **FORM 22(A) of Indian Motor Vehicle Act** only. The certificate shall contain following minimum information. –

FORM 22-A

[See Rules 47 (g), 115, 124(2), 126-A and 127(1), 127(2)]

**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, including the following mass emission norms:

Brand name of the vehicle :
Chassis number :
Engine number.....
Sub-rule No...of rule 115 :
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.

PART – II

(TO BE ISSUED BY THE BODY BUILDER)

Certified that body of the vehicle(brand name of the vehicle) bearing Chassis number and Engine Number has been fabricated by us and the same complies with the provisions of Motor Vehicles Act, 1988 and Rules made thereunder.

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

D. SAMPLE COPY OF FORM 21 OF TRAILER: Following is a sample copy of Indian Motor Vehicle Act only. The certificate shall contain the following minimum information.

FORM 21

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

SALE CERTIFICATE

(To be issued by manufacturer/ dealer 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** on (date)

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. Trailer Chassis No.
4. Month and year of manufacture
5. Unladen Weight
6. Maximum axle weight & number &
description of tyres (in case of transport vehicle)
 - (a) Rear axle
12. Colour
13. Gross vehicle weight
14. Gross combination weight
15. Type of body
16. Wheel Base

.....
17. Type of vehicle
.....

Signature of the Manufacturer /
Dealer or Officer of defence Department

*Strike out whichever is not applicable.

E. SAMPLE COPY OF FORM 22 OF TRAILER :

Following is a sample copy of Indian Motor Vehicle Act only. The certificate shall contain the following minimum information.

FORM 22

[See Rules 47 (g), 115, 124(2), 126-A and 127(1), 127(2)]

**INITIAL CERTIFICATE OF COMPLIANCE WITH POLLUTION
STANDARDS, SAFETY STANDARDS OF COMPONENTS AND ROAD-WORTHINESS**

(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, including the following mass emission norms:

Brand name of the vehicle :
Trailer Chassis number :

Signature of Manufacturer

[Form 22, 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.]

CHECK LIST FOR BIDDERS:**Part A : TECHNICAL****A 1.1 I) TRACTOR UNIT:****(Bidder to fill up this clearly and should submit the same along with their offer)**

Parameters		Bidder's Offer (Bidder to clearly mention the Make & Model, Type, relevant data, Yes/No etc. as applicable against the parameters)
1. Tractor Unit	a. Make	
	b. Model	
	c. GCW	
2. Wheel Base of the Tractor Unit		
3. Full Forward Control (FFC) / Semi Forward Control (SFC) Driver's cabin		
4. Seating capacity inside Driver's cabin including Driver		
5. Tractor Engine	a. Make	
	b. Model	
	c. Maximum Output Power	
	d. Maximum Output Torque	
	e. Fuel used	
	f. Water Cooled (Yes or No)	
6. Tractor Transmission	a. Make	
	b. Model	
	c. Number of Forward Gear	
	d. Number of Reverse Gear	
	e. High/Low provision	
	f. Fully automatic / automated transmission	
7. Drive (6 x 4) (Yes or No)		
8. Rear Axle Drive (Yes or No)		
9. Differential Lock facility in Tractor rear drive axles with alarm/indicator (Yes or No)		
10. Steering System	a. Make	
	b. Hydraulic Power Assisted Steering (Yes or No)	
	c. Right Hand Drive (i.e Steering wheel shall be on the right hand side inside the Driver's cabin when viewed from the rear of the tractor) (Yes or No)	
11. Tractor Brake System	a. Type of Service Brake	
	b. ABS Control (Yes or No)	
	c. Parking Brake operating through hand operated shifter valve (Yes or No)	
12. Type of Front Suspension (Tractor Unit)		
13. Rear Suspension (Tractor Unit)	a. Type	
	b. Make	
	c. Model	
14. Front Axle (Tractor Unit)	a. Make & Model	
	b. Front Axle capacity	
	c. Front Axle loading	

Parameters		Bidder's Offer (Bidder to clearly mention the Make & Model, Type, relevant data, Yes/No etc. as applicable against the parameters)
15. Rear Axles (Tractor Unit)	a. Make & Model	
	b. Rear Axle capacity (total)	
	c. Rear Axle loading (total)	
16. Front Axle wheels (Tractor Unit)	a. Total Number	
	b. Tyre Size	
17. Rear Axle wheels (Tractor Unit)	a. Total Number	
	b. Tyre Size	
18. Tractor Unit Fuel Tank	a. Capacity (each tank)	
	b. Number	
19. The Tractor shall have Speedometer indicating the speed in Kilometers per hour (Yes or No)		
20. Towing Hooks at Front & Rear of Tractor Unit (Yes or No)		
21. Rated Electrical system voltage		
22. Speed Limiting Device (SLD) for Tractor Unit (Yes or No)		
23. Global Positioning System (GPS) for Tractor Unit (Yes or No)		
24. Fifth wheel coupling (Tractor Unit)	a. Make	
	b. Model	
	c. Suitable for Trailer Kingpin size	
25. The tractor should be provided with two pneumatic coiled hoses suitable for trailer brake connection with suitable palm coupling & suitable electrical connection to connect the trailer (Yes/No.)		
26. Emission Norms for Tractor (Primemover) Unit		

II) TRAILER:

Parameters		Bidder's Offer (Bidder to clearly mention the Make & Model, Type, relevant data, Yes/No etc. as applicable against the parameters)
1. Trailer Axles	a. Total Quantity	
	b. Make	
	c. Model	
	d. Axle capacity (Total)	
	e. Axle loading (Total)	
2. Trailer Suspension	a. Make	
	b. Model	
	c. Type	
3. Trailer Wheels Tyre	a. Size	
	b. Total Quantity per Axle	
	c. Total Quantity in all the Axles	
	d. Tube type tyres (Yes/No.)	
4. Trailer Kingpin	a. Size	
	b. Make	
	c. Model	
5. Trailer landing Gear	a. Make	
	b. Model	
	c. Capacity	

6. System Voltage (To be compatible with Tractor Unit)	
7. The trailer should have a VIN plate fixed in a suitable place below the trailer (easily visible) containing, amongst others, the following information (a) Serial Number (b) Year and Month of manufacturer (c) Pay Load capacity (d) Name & Address of manufacturer etc. (Yes/No.)	

III. TRACTOR- TRAILER UNIT:

Parameters		Bidder's Offer (Bidder to clearly mention the Make & Model, Type, relevant data, Yes/No etc. as applicable against the parameters)
1. Minimum Turning Circle (MTC) Radius		
2. Maximum permissible Gross Combination Weight (GCW)		
3. Laden weight of the unit (total weight of the complete unit)		
4. Overall Dimension of the complete unit	a. Overall Length of the complete unit (tractor coupled with trailer unit)	
	b. Overall Width of the complete unit	
	c. Overall height of the complete unit from ground level	
5. Reversing Alarm with Blinker Lights (Yes or No)		
6. Electrical fittings/equipment suitable for oilfield area (Yes or No)		

A 1.2 (DECK ENGINE)

Sl. No.	PARAMETERS / REQUIREMENTS		BIDDER'S OFFER (To indicate details or yes/no, as applicable)	REMARKS, IF ANY
1	Engine	a Make & Model		
		b Max. Output Power		
		c Max. Output Torque		
		d Turbo Charged		
		e Emission Norms		
		f Control System		
2	Transmission system from engine to pump drive: Make & Model			
3	Fuel Tank capacity			
4	Number of fuel tanks			
5	Electrical fittings/equipment suitable for hazardous oilfield area.			
6	Provision of Air Dryer in pneumatic system.			
7	Make of Starter, Alternator, etc. of engine.			

A 1.3 HYDRAULIC SYSTEM

Sl. No.	PARAMETERS / REQUIREMENTS	BIDDER'S OFFER (To indicate details or yes/no, as applicable)	REMARKS (if any)
1	Number of Hydraulic Pumps		
2	Number of hydraulic motors		
3	Number of hydraulic cylinders		

4	Hydraulic System as per Clause No 4.0 (Provide Make, Model, Type and Use, & other details as fixed/variable displacement, open/closed loop, EDC/HDC etc. against each component) (*Add rows if required)		
	Hydraulic Pump 1		
	Hydraulic Pump 2		
	Hydraulic Pump 3		
5	Hydraulic System as per Clause No 4.0 (Provide Make, Model, Type and Use, & other details of hydraulic motors)(*Add rows if required)		
	Hydraulic Motor 1		
	Hydraulic Motor 2		
	Hydraulic Motor 3		
6	Maximum capacity injector drive pump		
7	Make, model and specification of engine mounted hydraulic pump drive		
8	Make, model and specification of clutch/PTO mounted with the hydraulic pump drive		
9	Minimum Prime mover RPM to run pumps efficiently		
10	Injector pump	a. Flow/HP requirement	
		b. Size of suction/delivery port	
11	Circuit drawing attached for all pumps (Yes/No)		
12	Pump pressure sensing device(Hyd/elect)		
13	Type of filters and indicating system		
14	Capacity of cooler		
15	Hydraulic oil temp sensing device		
16	Capacity of hydraulic oil reservoir		
17	Level gauge, temperature gauge for hydraulic reservoir (Metric/ British)		
18	Temperature measuring device for hydraulic oil (Metric/ British)		
19	Hand pump back up for critical function i.e. Stripper/BOP etc.		
20	Hydraulic oil reservoir filling pump with filter		
21	System pressure gauge for all pump		
22	Identification mark for hoses		
23	Make of hydraulic hoses		
24	Hose tray and bindings for hydraulic hoses		
25	Space for Maintenance of pumps and other hyd components		
26	Accessibility for inspection of pump drive and clutch.		
27	Provision for auxiliary reel drive		
28	Accumulator back up for critical function		
29	Accumulator charge pressure		

A 1.4 INJECTOR, STUFFING BOX & BOP:

Sl. No.	PARAMETERS / REQUIREMENTS		BIDDER'S OFFER (To indicate details or yes/no, as applicable)	REMARKS, IF ANY
1	Make & Model of Injector			
2	Gross Weight with goose neck and stuffing box			
3	Drive (double motor or single motor)			
4	Maximum pull capacity(High/low gear)			
5	Overall Dimensions (Width, Height & Length) of complete Injector			
6	Goose neck radius of curvature			
7	Goose neck mountings and adjustment			
8	Injector	a. Speed(High/Low)		
		b. Flow/HP requirement		
		c. Max. Output Torque at rated flow		
		d. Type of Chain and gripper block assy Range of CT size		

		e. Lubrication system		
		f. Control System		
9	Hydraulic motor (Injector)	a. Make & Model		
		b. Type and controls		
		c. braking and gear box system		
10	Make, Model & Type of traction cylinders			
11	Make , Model and type of load cell			
12	Arrangement of chain tensioning			
13	Catwalk and fall protection device(Injector)			
14	supporting legs height and weight(both short & Long)			
15	Stuffing box mounting			
16	Unsupported length between bottom of chains and top of the stuffing box			
17	Injector chain no and gripper block size			
18	Stuffing box type	a. Side		
		b. Top		
19	Working pressure, Stuffing box	a. WP		
		b. TP		
20	Stuffing box control(Elect/Hydraulic)			
21	Tandem Stuffing box type	a. Side		
		b. Top		
22	Working pressure, Tandem Stuffing box	a. WP		
		b. TP		
23	Tandem Stuffing box control (Elect/Hydraulic)			
24	Goose neck type	a. Fixed		
		b. Flexible		
25	Fail safe mechanism, Injector			
26	BOP	a. WP		
		b. TP		
27	Hydraulic operating pressure			
28	Ram type			
29	Make, Model & Type of BOP			
30	Top connection BOP			
31	Bottom flange, BOP			
32	Remote control provision, BOP			
33	Equalizer valve and rams,BOP			
34	Control valve(Electrical/Hydraulic)			
35	Accumulator back up,BOP			

A1.5 REEL:

Sl. No.	PARAMETERS / REQUIREMENTS		BIDDER'S OFFER (To indicate details or yes/no, as applicable)	REMARKS, IF ANY
1	Make & Model Tubing reel assembly			
2	Gross Weight with coiled tubing			
3	Drive system			
4	Maximum capacity of CT of specified size			
5	Overall Dimensions (Width, Height & Length) of complete assembly and reel			
6	Level wind and spooling mechanism			
7	Swivel angle with centerline of the unit			
8	Reel motor	Make & Model of reel motor		
		a. Speed(High/Low)		
		b. Flow/HP requirement		
		c. Reduction gear box type and ratio Reduction gear box type and ratio		
		d. Type of transmission Chain Auto spooling mechanism		
		e. Lubrication system		

		f. Control System (Electronic/hydraulic)		
9	Coiled tubing	a. Make & grade b. Size and length		
10	Make, Model & Type of hydraulic cylinders			
11	Make, Model and type depthometer			
12	Arrangement of mounting of tube reel assembly on the main chassis			
13	Depth/speed measuring device(Electrical/mechanical)			
14	Reel speed control(Hydraulic/electrical)			
15	Level wind control(hydraulic/electrical)			
16	Reel swivel right/left control (hydraulic/electrical)			
17	Manual spooling override control	a. Hydraulic b. Mechanical		
18	Working pressure, Rotary joint	a. WP b. TP		
19	Flow measuring system (Electrical/Hydraulic) compatible to the installed DAS			
20	Temperature measuring device	a. Mech b. Electrical		
21	Fail safe mechanism, reel motor			
22	Counter	a. Metric b. British		
23	Hydraulic operating pressure			
24	Guard to prevent hitting of CT to operator cabin in case of accidental un-spooling			
25	Make, Model & type of override hydraulic motor			
26	Flow line connection tee to CT(pressure rating)			
27	No. of plug valve in flow tee and pressure rating			
28	Hydraulic circuit for tubing reel drive(Independent/integrated)			

A1.6 COILED TUBING INTEGRITY MONITORING SYSTEM:

Sl. No.	PARAMETERS / REQUIREMENTS	BIDDER'S OFFER (To indicate details or yes/no, as applicable)	REMARKS, IF ANY
1	Make & Model		
2	Provide continuous and accurate wall thickness measurements		
3	Provide continuous diameter and ovality measurements		
4	Track weld-seam location to monitor rotation of the coiled tubing		
5	Capable of adjusting to 1.25 inch to 1.5 inch coiled tubing (OD) range		
6	Horizontally split for installation on coiled tubing		
7	Light in weight		
8	Laptop with latest configurations		
9	Coiled Tubing Integrity Monitoring System maintenance On-call out basis for 4 years		

A1.7 DATA ACQUISITION SYSTEM:

Sl. No.	PARAMETERS / REQUIREMENTS	BIDDER'S OFFER (To indicate details or yes/no, as applicable)	REMARKS, IF ANY
1	Make & Model		
2.	Measure and display following parameters:		
	a. Coil tubing depth, speed		
	b. Tubing weight		
	c. Circulating pressure		
	d. Well head pressure		
	e. Fluid pumping rate / total flow		
3.	Standards channels acquired –		
	a. Wellhead Pressure		
	b. Circulation Pressure		
	c. Pipe Weight (Heavy and Light)		
	d. CT Depth		
	e. CT Speed		
	f. Fluid Pumping Rate with totalizer		
4.	Channels for input signals for liquid rates and volumes from nitrogen pumping unit and fluid pumping unit		
5.	Availability of hard copy of real time data and graphic traces using latest jet colour printer.		
6.	Licensed software for real-time monitoring		
7	LCD/ monitor to display real time data		
8	Provision of UPS		
9	Laptop with latest configurations to retrieve data		

Part B: DOCUMENTATIONS**B1.1 TRACTOR-TRAILER etc. :**

Sl. No.	DESCRIPTIONS	DOCUMENT ENCLOSED (Yes or No)	REMARKS, IF ANY
1	The bidder has to submit GA (General Arrangement) drawing of the offered complete unit (including Tractor & Trailer combination i.e tractor & trailer coupled condition etc.) along with dimensions of the unit and position of all major components & their mounting on the vehicle.		
2.	List of tools that shall be supplied under Standard Tool Kit for general maintenance of the vehicle.		
3.	Technical leaflets with detailed specifications, Make & Model of the offered Tractor Unit, Tractor Engine, Tractor Transmission, Tractor Front Axle, Tractor Rear Axles, Tractor Front Suspension, Tractor Rear Suspension, Tractor Steering System, Tractor Brake System, Fifth Wheel Coupling, Trailer Kingpin, Trailer Suspension System, Trailer Axles etc.		
4.	Bidder shall submit dimensional drawing of the trailer and its MAIN GIRDERS (LH / RH) with details along with the technical Bid.		
5.	Specific description, Part Nos., Make, Quantity etc. of each and every spares as detailed in the Automobile Spare Parts List		
6.	List of additional spares as felt necessary for two (02) years maintenance but not covered in the Automobile Spare Parts List provided in the NIT with Description, Part Nos., Make, etc. including Unit Rate (for future reference/procurement only; not for bid evaluation, to be submitted separately along with price bid only).		
7.	Any other documents, leaflet, drawing etc. as per respective clauses.		

B1.2 POWER SYSTEM:

Sl. No.	DESCRIPTIONS	DOCUMENT ENCLOSED (Yes or No)	REMARKS, IF ANY
1	Technical leaflets with detailed specifications, Make & Model of deck engine and transmission system		
2	List of items that shall be supplied under Engine Fault Diagnostic & Repair Tool (both Software as well as complete Hardware) for deck engine.		
3	Technical literature with detailed specifications of hydraulic pumps, motors, and accumulator		
4	Detailed hydraulic circuit drawing illustrating pumps, control valves and actuators.		
5	Technical literature with detailed specifications pump drive		
6	Technical literature with detailed specifications of pressure, flow and temperature measuring system		
7	Specific description, Part Nos., Make, etc. spares for hydraulic transmission system.		
8	List of additional spares as felt necessary for 2 (two) years trouble free operation and maintenance but not covered in this list for future reference/ procurement- NOT FOR BID EVALUATION.		

B1.3 INJECTOR, STUFFING BOX & BOP:


Sl. No	DESCRIPTIONS	DOCUMENT ENCLOSED (Yes or No)	REMARKS, IF ANY
1	Technical literature with detailed specifications, Injector, Hydraulic motor, Transmission and gear box, Brake mechanism, chains and gripper block assembly, Chain traction and tension system, hydraulic components, load cell.		
2	Detailed dimensional layout drawing illustrating operator's Cabin and all major items/ components.		
3	Technical literature with detailed specifications Stuffing box		
4	Technical literature with detailed specifications BOP		
5	List of tools that shall be supplied under Standard Tool Kit for general maintenance injector, BOP & stuffing box		
6	Specific description, Part Nos., Make, etc. and Unit Price of each and every spares for injector, Stuffing box and BOP		
7	List of additional spares as felt necessary for 2 years maintenance (for future reference/procurement only; not for bid evaluation).		

B1.4 REEL:

Sl. No.	DESCRIPTIONS	DOCUMENT ENCLOSED (Yes or No)	REMARKS, IF ANY
1	Technical literature with detailed specifications reel ,Hydraulic motor, Transmission and gear box, Brake mechanism , auto spooling system, Hydraulic cylinders, hydraulic control valves, measuring device.		
2	Detailed dimensional drawing illustrating level wind, Measuring head, spooler override, lubrication system, drive mechanism, Transmission chain/auto spooling and all major items/ components.		
3	Technical literature with detailed specifications coiled tubing		
4	Technical literature with detailed specifications plug valves, flow and temperature measuring system		
5	List of tools that shall be supplied under Standard Tool Kit for general maintenance Tubing reel assy.		
6	Specific description, Part Nos., Make, etc. and Unit Price of each and every spares for tube reel assy.		
7	List of additional spares as felt necessary for 2 years maintenance (for future reference/procurement only; not for bid evaluation).		

PART BBB :: GENERAL NOTES TO BIDDERS:

Sl No	Clause description
1.0	<p>a) Bidders without having E-tender Login ID and Password should complete their online registration at least seven (7) days prior to the scheduled bid closing date and time of the tender. For online registration, Bidder may visit the OIL's E-tender site https://etender.srm.oilindia.in/irj/portal</p> <p>b) Necessary Login ID & Password will be issued by OIL only after submitting the complete online registration by the Bidder. In the event of late registration/incomplete registration by Bidder, OIL INDIA LIMITED shall not be responsible for late allotment of User ID & Password and request for bid closing date extension on that plea shall not be entertained by Company.</p>
2.0	<p>Submission of Bid Security/EMD/Performance Bank Guarantee – Must be paid either through online mode or Submission of Bank Guarantee/LC only. No DD/Cheques/Cashier Cheque or any other mode will be acceptable.</p> <p>The Bank Guarantee issued by the Bank must be routed through SFMS platform as per following details:</p> <p>a. (i) MT 760 / MT 760 COV for issuance of Bank Guarantee (ii) MT 760 / MT 767 COV for amendment of Bank Guarantee The above message / intimation shall be sent through SFMS by the BG issuing Bank branch to HDFC Bank, Duliajan Branch, IFS Code – HDFC0002118; SWIFT Code - HDFCINBBCAL.</p> <p>Branch Address: HDFC Bank Limited, Duliajan Branch, Utopia Complex, BOC Gate, Jayanagar, Duliajan, Dibrugarh, PIN – 786602.</p> <p>b. The vendor shall submit to OIL the copy of the SFMS message as sent by the issuing bank branch along with the original bank guarantee.</p>
3.0	The tender will be governed by “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) including Amendments & Addendum to “General Terms & Conditions” for e-Procurement.
4.0	Bid must be submitted online through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
5.0	<p>Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribing tender no. and due date to The DGM Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam on or before 13:00 hrs (IST) on the Bid Closing Date mentioned in the Tender.</p> <p>a) Original Bid Security along with two duplicate copies of Bid Security. b) Any other documents which have been particularly asked for in this tender for submission.</p>
6.0	Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time, failing which the offer shall be rejected.

7.0	<p>The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidder has to submit both the “TECHNO-COMMERCIAL UNPRICED BID” and “PRICED BID” through electronic form in the OIL’s e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. The “Techno-commercial Unpriced Bid” shall contain all technical and commercial details except the prices which shall be kept blank. Details of prices as per Bid format / Commercial bid to be uploaded as attachment in the Attachment Tab “Notes and Attachments”. Any offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in the tender.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 30%;">Notes and Attachments</div> <div style="background-color: yellow; padding: 5px; width: 65%;">→ Only Price Details Should Be Uploaded</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 30%;">Technical attachments</div> <div style="background-color: yellow; padding: 5px; width: 65%;">→ All technical bid documents except price details</div> </div> <p style="margin-top: 20px;">Please do refer “NEW INSTRUCTION TO BIDDER FOR SUBMISSION” for the above two points and also please refer “New Vendor Manual (effective from 12.04.2017)” available in the login Page of the OIL’s E-tender Portal.</p> <div style="display: flex; align-items: center; margin-top: 20px;">  <div style="margin-left: 20px; color: #000080; font-size: small;"> <p>Supplier Enlistment for E-Tender</p> <p>Important Note for New Portal Users:</p> <p>Click here to View Compatibility Settings</p> <p>Recent Guidelines to bidders</p> <p>Click for User Manuals</p> <p>© 2012 Oil India Limited. All rights reserved.</p> <p>Click for Terms of use, Privacy Policy, Refund Policy Docs</p> </div> </div>
8.0	<p>In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that “TECHNO-COMMERCIAL UNPRICED BID should contain details as mentioned in the technical specifications as well as BEC/ BRC and upload the same in the Technical RFX Response-> User - > Technical Bid. <u>No price should be given in above Technical Rfx otherwise the offer will be rejected.</u> Please go through the help document in details before uploading the document and ensure uploading of technical bid in the Technical RFX Response-> User - > Technical Bid only. The “PRICE BID” must contain the price schedule and the bidder’s commercial terms and conditions. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under “Notes & Attachments”.</p>
8.1	<p>For convenience of the qualified Bidders and to improve transparency, the rates/cost quoted by bidders against OIL’s e-tenders shall be available for online viewing by such Bidders whose price bids are opened by Company. A Bidder can view item-wise rates/costs of all other such peer bidders against the tender immediately after price bid opening, if the e-tender is floated by Company with PRICE CONDITION. In case the Price-Bid is invited by Company through attachment from under “Notes & Attachment” (i.e. NO PRICE CONDITION), Bidders must upload their detailed Price-Bid as per the prescribed format under “NOTES & ATTACHMENT”, in addition to filling up the “TOTAL BID VALUE” tab taking into account the cost of all individual line items and other applicable charges like freight, tax, duties, levies etc. Under NO PRICE condition (i.e. Price Bid in attachment form), the “Total Bid Value” as calculated & quoted by the Bidder shall only be shared</p>

	amongst the eligible bidders and Company will not assume any responsibility whatsoever towards calculation errors/omissions therein, if any. Notwithstanding to sharing the “Total Bid Value” or the same is whether filled up by the Bidder or not, Company will evaluate the cost details to ascertain the inter-se-ranking of bidders strictly as per the uploaded attachment and Bid Evaluation Criteria only. Online view of prices as above shall be available to the Bidders only upto seven days from the date of Price-Bid opening of the e-tender.
9.0	PRICED BIDS OF ONLY THOSE BIDDERS WILL BE OPENED WHOSE OFFERS ARE FOUND TO BE TECHNO-COMMERCIALLY ACCEPTABLE.
10.0	Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.
11.0	Please mention clearly in your quotation the Net. Weight, Gross Weight & Volume, Indian Agent's Name and its Commission, Payment Terms, Ocean Freight/Air Freight Charges, Port of Loading, Delivery period, Country of origin with manufacturer's name, etc.
12.0	To ascertain the substantial responsiveness of the bid, OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by OIL, failing which the offer will be summarily rejected.
13.0	Other terms and conditions of the tender shall be as per “General Terms & Conditions” for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). However, if any of the Clauses of the Bid Rejection Criteria (BRC) / Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.
14.0	All the Bids must be Digitally Signed using “Class 3” digital certificate (e-commerce application) only as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than “Class 3” digital certificate, will be liable for rejection.
15.0	Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.
16.0	Bidders to note that this tender is not intended for procurement from Micro and Small Enterprises. Hence, Government policies in vogue related to procurement from SSI/MSE bidders shall not be applicable against the tender.
17.0	The items shall be brand new, unused & of prime quality. The manufacturer shall warrant (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 12 months from date of commissioning and handing over to OIL. The defective materials, if any, rejected by OIL shall be replaced by the supplier at their own expense. Bidders must confirm the same in their quotations.

18.0	Quantity of Individual item may be increased or decrease at the time of final placement of order. The minimum FOB/FCA charges in case of partial order for reduced quantity/enhanced quantity shall have to be indicated by the bidder. In case, this is not indicated specifically, the charges quoted would be pro-rata calculated and the same will be binding on the bidder.
19.0	Any deviation(s) from the tender specification should be clearly highlighted specifying justification in support of deviation.
20.0	<p>The Integrity Pact is applicable against this tender .OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure XII of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid. If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.</p> <p>OIL's Independent External Monitors at present are as under:</p> <p>SHRI RUDHRA GANGADHARAN, IAS (Retd.), Ex-Secretary, Ministry of Agriculture e-Mail ID : rudhra.gangadharan@gmail.com</p> <p>SHRI RAJIV MATHUR, IPS (Retd.), Former Director (IB) Govt. of India e-Mail ID : rajivmathur23@gmail.com</p> <p>SHRI JAGMOHAN GARG, Ex-Vigilance Commissioner, CVC e-Mail id : jagmohan.garg@gmail.com</p>
21.0	Original Bid Closing Date shall be considered by OIL for evaluation of BRC Criteria in case of any extension of the original bid closing date.
22.0	<p>Performance Security clause (Clause No. 10.0 of Section-A) of "General Terms & Conditions for Global Tenders (MM/GLOBAL/01/2005)" has been amended and the new clause is detailed in the Amendment dated 25.04.2016 issued to MM/GLOBAL/01/2005. Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. Bidders to note the same and to confirm its acceptance in their offers.</p> <p>The Bank Guarantee issued by the Bank must be routed through SFMS platform as per following details:</p> <p>a. (i) MT 760 / MT 760 COV for issuance of Bank Guarantee (ii) MT 760 / MT 767 COV for amendment of Bank Guarantee The above message / intimation shall be sent through SFMS by the BG issuing Bank branch to HDFC Bank, Duliajan Branch, IFS Code – HDFC0002118; SWIFT Code - HDFCINBBCAL.</p> <p>Branch Address: HDFC Bank Limited, Duliajan Branch, Utopia Complex, BOC Gate, Jayanagar, Duliajan, Dibrugarh, PIN – 786602.</p> <p>b. The vendor shall submit to OIL the copy of the SFMS message as sent by the issuing bank branch along with the original bank guarantee.</p>

23.0	Bidder to sign and submit completely filled up Technical & Commercial check list and Technical Evaluation Matrix for Bid evaluation criteria and Technical specification failing which their offer will be rejected.
24.0	Payment terms: 80% payment will be made against supply of materials and balance 20% after satisfactory installation & commissioning at site along with the training, installation & commissioning charges. Bidders must confirm the same while quoting.
25.0	Liquidated Damage: Refer to “General Terms & Conditions” for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). The applicable GST on the Liquidated Damage shall have to be borne by the seller. Accordingly, the Liquidated Damage shall be recovered from the seller along with applicable GST.
26.0	<p>The items covered in this Tender shall be used by Oil India Limited in the PEL/ML areas and hence Nil rate of Customs Duty towards import (for foreign bidders) and concessional GST @5% (for foreign & indigenous bidder) will be applicable as per Govt. Policy in vogue.</p> <p>Overseas Bidders are not required to include Customs Duty and IGST components in their quoted cost, since all applicable taxes & Duties in India shall be to the account of Oil India Limited.</p> <p>In the event of an order on indigenous bidder, OIL will issue Project Authority Certificate (PAC) under Deemed Export Benefit Scheme, where import content is declared by the bidder for availing Custom Duty benefit on the import content.</p> <p>Supplier shall arrange to provide all necessary documents (invoice etc.) to OIL for applying Essentiality Certificate on receipt of request from OIL, if any. Further, Suppliers shall affect dispatch only on receipt of relevant certificates/shipment clearance from OIL, failing which all related liabilities shall be to Supplier’s account.</p>
27.0	Bidders to note that Ministry of Petroleum & Natural Gas, Government of India implemented PPLC Policy to provide Purchase Preference (linked with local content) by notification no. Ref. O-27011/44/2016-ONG-II/FP dtd.25.04.2017. Bidders are requested to take note of the same and to submit their offers accordingly wherever applicable. Policy details are available in APPENDIX-A2
28.1	In case of placement of order, OIL reserves the right to convert the order from FOB Port of export to C&F Kolkata term considering the ocean freight quoted by the party in their offer. In case the order is converted to C&F Kolkata Port, the performance security amount shall also be enhanced considering the quoted ocean freight charges.
28.2	Bidder should confirm in their quotation that in case of C&F order, their nominated freight forwarder should provide Delivery Order under Single Window facility having office of local agent in India at Kolkata and offer 14 days free detention time of containers at discharging port.
29.0	Along with the technical bid, bidders must submit duly filled undertaking as per format provided vide Appendix-A1 as undertaking towards submission of authentic information/documents.

Clauses related to GST

1. For the purposes of levy and imposition of GST, the expressions shall have the following meanings:
 - (a) GST - means any tax imposed on the supply of goods and/or services under GST Law.
 - (b) Cess – means any applicable cess, existing or future on the supply of Goods and Services as per Goods and Services Tax (Compensation to States) Act, 2017.
 - (c) GST Law - means IGST Act 2017, CGST Act 2017, UTGST Act, 2017 and SGST Act, 2017 and all related ancillary Rules and Notifications issued in this regard from time to time.
2. The rates quoted by the bidders shall be inclusive of all taxes, duties and levies. However, bidders are required to provide separately the rate and amount of all types of taxes, duties and levies. In case, the quoted information related to various taxes, duties & levies subsequently proves wrong, incorrect or misleading, OIL will have no liability to reimburse the difference in the duty/ tax, if the finally assessed amount is on the higher side and OIL will have to right to recover the difference in case the rate of duty/ taxes finally assessed is on the lower side. Further, bidders have to clearly show the amount of GST separately in the Tax Invoices. Further, it is the responsibility of the bidders to make all possible efforts to make their accounting / IT system GST compliant in order to ensure availability of Input Tax Credit (ITC) to Oil India Ltd.
3. Offers without giving any of the details of the taxes (Including rates and amounts) as specified above will be considered as inclusive of all taxes including GST. When a bidder mentions taxes as extra without specifying the rates & amount, the offer will be loaded with maximum value towards taxes received against the tender for comparison purposes. If the bidder emerges as lowest bidder after such loading, in the event of order on that bidder, taxes mentioned by OIL on the Purchase Order/ Contracts will be binding on the bidder.
4. Bidders are required to pass on the benefit arising out of introduction of GST, including seamless flow of Input Tax Credit, reduction in Tax Rate on inputs as well as final goods by way of reduction of price as contemplated in the provision relating to Anti-Profiteering Measure vide Section 171 of the CGST Act, 2017. Accordingly, for supplies made under GST, the bidders should confirm that benefit of lower costs has been passed on to OIL by way of lower prices/taxes and also provide details of the same as applicable. OIL reserves the right to examine such details about costs of inputs/input services of the bidders to ensure that the intended benefits of GST have been passed on to OIL.
5. Oil India Ltd. shall declare the value of free issue of materials and services, if any, involved in the execution of the contract. The Contractor should consider the same while working out the GST liability, if any. Further in cases where GST is leviable on any facilities provided by OIL and used by bidders and the consideration for which is recovered by OIL in the form of reduction in the invoice raised by bidders then OIL will raise GST invoices on such transactions and the same will be reimbursed by bidders.
6. **When Input tax credit is available for Set Off**
 Evaluation of L-1 prices shall be done based on Quoted price after deduction of Input Tax Credit (ITC) of GST, if available to OIL. OIL shall evaluate the offers on the basis of the quoted rates only and any claim subsequently by the bidders for additional payment/liability shall not be admitted and has to be borne by the bidders

When Input tax credit is NOT available for Set Off

Evaluation of L-1 prices shall be done based on Quoted price only. OIL shall evaluate the offers on the basis of the quoted rates only and any claim subsequently by the bidders for additional payment/liability shall not be admitted and has to be borne by the bidders

7. Bidders agree to do all things not limited to providing GST compliant Tax Invoices or other documentation as per GST law relating to the supply of goods and/or services covered in the instant contract like raising of and /or acceptance or rejection of credit notes / debit notes as the case may be, payment of taxes, timely filing of valid statutory Returns for the tax period on the Goods and Service Tax Network (GSTN), submission of general information as and when called for by OIL in the customized format shared by OIL in order to enable OIL to update its database etc. that may be necessary to match the invoices on GSTN common portal and enable OIL to claim input tax credit in relation to any GST payable under this Contract or in respect of any supply under this Contract.
8. In case Input Tax Credit of GST is denied or demand is recovered from OIL by the Central / State Authorities on account of any non-compliance by bidders, including non-payment of GST charged and recovered, the Vendor/Supplier/Contractor shall indemnify OIL in respect of all claims of tax, penalty and/or interest, loss, damages, costs, expenses and liability that may arise due to such non-compliance. OIL, at its discretion, may also withhold/recover such disputed amount from the pending payments of the bidders.

END OF ANNEXURE – A

**Format of undertaking by Bidders towards submission of authentic information/documents
(To be typed on the letter head of the bidder)**

Ref. No _____

Date _____

Sub: Undertaking of authenticity of information/documents submitted

Ref: Your tender No. _____ **Dated** _____

To,
The HOD-Materials
Materials Deptt,
OIL, Duliajan

Sir,

With reference to our quotation against your above-referred tender, we hereby undertake that no fraudulent information/documents have been submitted by us.

We take full responsibility for the submission of authentic information/documents against the above cited bid.

We also agree that, during any stage of the tender/contract agreement, in case any of the information/documents submitted by us are found to be false/forged/fraudulent, OIL has right to reject our bid at any stage including forfeiture of our EMD and/or PBG and/or cancel the award of contract and/or carry out any other penal action on us, as deemed fit.

Yours faithfully,
For (type name of the firm here)

Signature of Authorised Signatory Name :

Designation :

Phone No.

Place :

Date :

(Affix Seal of the Organization here, if applicable)

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

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

BID REJECTION CRITERIA (BRC):**A.1 TECHNICAL:****1.0 BIDDER'S QUALIFICATION CRITERIA:**

- 1.1 The bidder shall be an Original Equipment Manufacturer (OEM) of Coiled Tubing Unit (CTU).
OR
- 1.2 The bidder shall be a Sole Selling Agent/Dealer/Distributor/Supply House of OEM of Coiled Tubing Unit (CTU).

Note:

- a) Bidders other than OEMs must submit a valid Authorization letter and back-up warranty from the manufacturer as per format enclosed herein vide **APPENDIX-B1**. The Authorization letter must be duly sealed & signed by the Manufacturer on their official letter head and the status of the Bidder (whether Sole Selling Agent/Dealer/Distributor/Supply House) should be identified.
- b) The Sole Selling Agent/Dealer/Distributor/Supply House shall categorically confirm in their technical bid that there will be no change of the proposed OEM after submission of the bid.

2.0 BIDDERS' EXPERIENCE:

- 2.1 In case the Bidder is an **Original Equipment Manufacturer (OEM)** of Coiled Tubing Unit (CTU), the bidder shall have the experience of successful execution (supply, installation and commissioning) of order(s) for 50% of tender item quantity rounded off to next higher integer (i.e. 01 no) of tender item (i.e. coil tubing unit) in last five (05) years preceding the bid closing date of this tender to any E&P company or service provider to an E&P company. Documentary evidences in this regard must be submitted along with the Technical Bid as per Para 2.3.
- 2.2 In case the Bidder is a **Sole Selling Agent/Dealer/Distributor/Supply House of the Original Equipment Manufacturer (OEM)** of Coiled Tubing Unit, the following criteria shall be met by the Bidder and the OEM:
 - i) The Bidder as a Sole Selling Agent/Dealer/Distributor/Supply House shall have the experience of successful execution (supply, installation and commissioning) of order(s) for 50% of tender item quantity rounded off to next higher integer (i.e. 01 no) of tender item (i.e. coil tubing unit) (manufactured by either the proposed OEM or any other OEM) in last five (05) years preceding the bid closing date of this tender to any E&P company or service provider to an E&P company. Documentary evidences in this regard must be submitted along with the Technical Bid as per Para 2.3.

- ii) Their **Original Equipment Manufacturer (OEM)** must meet the experience criteria set out in para 2.1 above and documentary evidences in this regard must be submitted along with the Technical Bid as per para 2.3.

2.3 NOTES TO BIDDER REGARDING EXPERIENCE CRITERIA

2.3.1 The following documentary evidences to substantiate above experience records (2.1 and 2.2, as applicable) of the Bidder must be submitted alongwith the technical bid, failing which the Bid shall be treated as incomplete and rejected:

- (a) Copy of Purchase order(s)/contract(s) awarded by Client(s)
- (b) Any one or combination of the following documents that confirms the successful execution of each of the purchase order(s) / contract(s) -

True copies of Original Signed and sealed Completion report/performance certificate from the clients (on Client's/User's official letter head with signature & stamp) duly notarized by Government Notary.

OR

Copy of Bill of Lading

OR

Copy of Consignee delivery receipts/challans

OR

Copy of Tax Invoice/Excise Gate Pass issued under relevant Act/rules

OR

Copy of Commercial Invoice/Payment Certificate

2.3.2 The date of purchase order(s)/contract(s) need not be within five (5) years preceding the original bid closing date of the Tender, but execution/ supply of required quantity must be within five (5) years preceding the original bid closing date of this tender.

2.3.3 The service provider to an E&P company shall mean company who has bought the tender item (coil tubing Unit) and has provided service to an E&P company utilizing the tender item (Coil Tubing Unit).

2.3.4 In case experience credentials is submitted for past supply to a service provider, the submitted documents (as per para 2.3.1) should clearly indicate name of the E&P Company for which the tender item has been utilized. On the contrary, a declaration from the service provider (on their official letter head with signature & stamp) is required to be submitted stating the name of the E&P company for which the tender item has been utilized for providing service.

2.3.5 In case of extension to the scheduled Bid Closing date of this tender, if any, the Original scheduled Bid closing Date shall be considered for evaluation of Bids.

2.3.6 Against all supporting documents submitted by the bidder alongwith the technical bid, originals must be kept ready and to be produced for verification of OIL, if called for.

3.0 DELIVERY PERIOD: Time is of the essence and materials must be supplied within Eight (8) months in the event of an order. Therefore, Bids submitted by Bidders quoting delivery schedule more than Eight (8) months shall not be accepted. Overseas Bidders must quote shipment (FOB) within Eight (8) months from the date of opening of Letter of Credit by OIL and indigenous Bidders must quote delivery within Eight (8) months from the date of placement of order by OIL. Date of unambiguous Bill of Lading (B/L) for foreign supplier and date of LR/C Note shall be considered as the date of delivery. Bidders must categorically confirm the above in their Technical Bid, failing which the offer shall be summarily rejected.

(A.2) BRC - FINANCIAL:

- 1.0 The bidder shall have an annual financial turnover of minimum US\$ 12,18,300.00 or Rs. 869.73 Lakhs during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender.
- 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 **(i.e., Year 2018-19)**.
- 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 certifying that 'the balance sheet/Financial Statements for the financial year 2018-19 has actually not been audited so far'.

Note:

- a) For proof of Annual Turnover & Net worth any one of the following document 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 ANNEXURE-D.
OR
 - ii) Audited Balance Sheet alongwith Profit & Loss account. In case of foreign bidders, self-attested/digitally signed printed published accounts are also acceptable.
 - b) 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.
- 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\$.

(A.3) BRC – COMMERCIAL:

Commercial Bid Rejection Criteria will be as per Section D of General Terms & Conditions of Global Tender (MM/GLOBAL/E-01/2005) with following Special Bid Rejection Criteria.

- 1.0 Bids are invited online under **Single Stage Two Bid System**. Bidders must prepare the Techno-Commercial Bid (Unpriced) as well as the Priced Bid separately and upload both these bids in OIL's e-procurement portal at the designated fields separately assigned. **Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid.** The "Unpriced Bid" shall contain all techno-commercial details except the prices/costs. The rate and amount columns in the unpriced technical bid must be kept blank. The "Price Bid" must contain the price schedule and the bidder's commercial terms and conditions. Bidder not complying with above submission procedure will be rejected.

- 2.0 The prices/rates offered against the tender must remain firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price condition shall be treated as non-responsive and rejected. No discount whatsoever should be quoted separately. Rates/prices quoted must be net of all discount.
- 3.0 Bids received in physical form against online invitation shall be rejected (except the documents specifically called for in hard copies, if any). Also, modifications to bids received after the bid closing date & time shall not be entertained.
- 4.0 Bids containing incorrect/false/misleading statement(s) shall be rejected.
- 5.0 Validity of the bid shall be **minimum 120 days** from the date of actual Bid Closing Date. Bids with lesser validity shall be straightway rejected.
- 6.0 Bid Security (EMD) as applicable must either be deposited through online payment gateway or submitted to OIL in the form of original Bank Guaranty (hard copy) on or before the scheduled Bid Closing date of the Tender. The Validity and Amount of Bid Security (EMD) must be strictly as specified in the covering letter of this bid document. Bid shall be rejected without further reference, if the Bid Security (EMD) is not received strictly as above, except where exempted. OIL will not assume any responsibility whatsoever for submission of deficient/faulty Bid Security or for delay/non-delivery of the same.
- 6.1 For exemption for submission of Bid Security please refer Clause No. 9.8 (Section A) of “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders).
- 7.0 Bidders must confirm that goods/materials to be supplied against the order arising out of this tender shall be of recent make, unused, of the best quality & workmanship and free from defects. The Bidder must undertake to stand guaranteed the supplies for a period of twelve (12) months from the date of commissioning, against any defects arising from faulty materials, workmanship or design. Defective goods/materials rejected by OIL, whether the entire lot or part thereof, shall be replaced immediately by the supplier at the supplier’s expenses at no extra cost to OIL.
- 8.0 Successful bidder shall be required to furnish a Performance Security equivalent to ten percent (10%) of total evaluated value of Order within 30 days of receipt of LOI/notification of award. The Performance Bank Guaranty must remain valid throughout the period of execution, including extension if any. Non-submission of Performance Security as above by the successful Bidder shall lead to cancellation/termination of award including forfeiture of their Bid Security, besides other penal actions as per OIL’s Banning Policy. Bidders should undertake in their bids to submit Performance Security as stated above
- 9.0 Online Bid must be uploaded together with the Integrity Pact and the same must be duly signed digitally. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact with the offer, their bid shall be rejected straightway.
- 10.0 Bidder must quote for all items and services being sought for in the tender, failing which the bid shall be treated as incomplete and rejected

- 11.0 Bidders are required to submit the summary of the prices in their price bids as per bid format (Summary), given below:

(i) Price Bid Format (SUMMARY) for Foreign Bidders:

Name of Bidder:		Currency:
Sl. No	Particulars	Price quoted
A	Total Material Cost of 01 No. CTU including cost of CTU as per specification under para 1.0 to 15.2(except 15.2 (ii) Note-c) and 16.0 to 18.0. Price break up mentioning quantity and unit price of each item quoted should be provided separately.	
B	Third Party Inspection Charges (Ref. Para 19.1)	
C	Packing & FOB Charges	
D	Total FOB Port of Shipment Value, A+B+C	
E	Ocean Freight Charges upto Kolkata, India	
F	Insurance Charges @1% of D	
G	Banking Charges @0.5% of D in case of payment through LC/Sight Draft/any other payment mode (if confirmed LC at buyer's account is required, 1.5% of D will be loaded)	
H	Total CIF Kolkata Value, D+E+F+G	
I	IGST @5% of H	
J	Total CIF+GST Kolkata Value, H+I	
K	Pre-despatch Inspection charges, if any, inclusive of taxes (ref. Para 19.2)	
L	Charges towards training to OIL Personnel, if any, inclusive of taxes (ref. Para 20.0)	
M	Installation & Commissioning charges, if any, inclusive of taxes (ref. Para 21.0)	
N	Total Value, J+K+L+M	
O	Total Value in words:	
P	Price breakup of additional spares as 15.2 (ii) Note (c) (NOT FOR BID EVALUATION)	
Q	Price breakup of recommended spares as par Para 15.3 (NOT FOR BID EVALUATION)	
R	Tentative Gross Weight	
S	Tentative Dimensions	
T	Name of Manufacturer	
U	Port of Despatch	
V	Country of Origin	

(i) Price Bid Format (SUMMARY) for Indigenous Bidders:

Name of Bidder:		Currency:
Sl. No	Particulars	Price quoted
A	Total Material Cost of 01 No. CTU including cost of CTU as per specification under para 1.0 to 15.2(except 15.2 (ii) Note-c) and 16.0 to 18.0. Price break up mentioning quantity and unit price of each item quoted should be provided separately.	
B	Third Party Inspection Charges (Ref. Para 19.1)	
C	Packing & Forwarding Charges	
D	Total Ex-Works Value, A+B+C	
E	GST@5% of D against Essentiality Certificate	
F	FOR Despatching Station Value, D+E	
G	Freight charges upto Duliajan including GST	
H	Insurance charges upto Duliajan including GST	
I	Total FOR Duliajan Value, F+G+H	
J	Pre-despatch Inspection charges, if any, inclusive of taxes (ref. Para 19.2)	
K	Charges towards training to OIL Personnel, if any, inclusive of taxes (ref. Para 20.0)	
L	Installation & Commissioning charges, if any, inclusive of taxes (ref. Para 21.0)	
M	Total Value, I+J+K+L	
N	Total Value in words:	
O	Price breakup of additional spares as 15.2 (ii) Note (c) (NOT FOR BID EVALUATION)	
P	Price breakup of recommended spares as par Para 15.3 (NOT FOR BID EVALUATION)	
Q	Import Content, if any	
R	Tentative Gross Weight	
S	Tentative Dimensions	
T	Name of Manufacturer	
U	Place of Despatch	
V	Country of Origin	

12.0 Bidder shall accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection:

- i) Liquidated Damages
- ii) Warranty/Guarantee of material
- iii) Arbitration / Resolution of Dispute
- iv) Force Majeure
- v) Applicable Laws

13.0 A bid shall be rejected straightway if it does not conform to any one of the following clauses:

- a) Validity of bid shorter than the validity indicated in the Tender.
- b) Original Bid Security not received within the stipulated date & time mentioned in the Tender.
- c) Bid Security with (i) validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender.

BID EVALUATION CRITERIA:

The bids conforming to the specifications, terms and conditions stipulated in the enquiry and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per General Terms and Conditions for Global Tender and the Bid Evaluation Criteria given below:

- 1.0 The evaluation of bids shall be done as per the Price Bid Format (SUMMARY) provided in the Tender and detailed below
- 2.0 If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.
- 3.0 For conversion of foreign currency into Indian currency, B.C. selling (Market) rate declared by State Bank of India, one day prior to the date of price bid opening shall be considered. However, if the time lag between the opening of the bids and final decision exceed 3(three) months, then B.C. Selling(Market) rate of exchange declared by SBI on the date prior to the date of final decision shall be adopted for conversion and evaluation.
- 4.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be made as under, subject to corrections / adjustments given herein.

Note: 1) Domestic Bidders must quote inland freight charges upto Duliajan. In case bidder fails to quote inland freight charges, highest freight quoted by domestic bidder (considering pro-rata distance) against this tender or OIL's estimated freight, whichever is higher, shall be loaded to their offer for comparison purpose.

2) For enquiries with duty exemption benefit – The items covered under this enquiry shall be used by OIL in the PEL/ML areas and hence, applicable customs duty for import of goods shall be zero in case of Foreign Bidders. However, IGST @5% shall be applicable. Indigenous bidder shall be eligible for concessional rate of GST @5% against Essentiality Certificate.

4.1 When only foreign bidders are involved:

For evaluation of each individual items, Total value as per para **A.3 11.0 (i) N** will be compared.

NOTE: *Banking charge in the country of the foreign bidder shall be borne by the bidder. Banking charge 1% for payment through Letter of Credit. And 1.5 % if confirmed LC at buyer's account is required.

4.2 When only domestic bidders are involved or when more than one domestic bidders are in contention in case of mixed response:

For evaluation of each individual items, Total value as per para **A.3 11.0 (ii) M** will be compared.

4.3 When both foreign and domestic bidders are involved:

For evaluation of each individual items, Total value as per para **A.3 11.0 (i) N of Foreign Bidders** will be compared with Total value as per para **A.3 11.0 (ii) M (excluding G & H) of Domestic Bidders.**

Note: If the Government of India revises these evaluation criteria the same as applicable on the bid closing date will be adopted for evaluation of the offers.

- 5.0 Other terms and conditions of the enquiry shall be as per General Terms and Conditions for Global Tender. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) mentioned here contradict the Clauses in the General Terms & Conditions of Global Tender of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

***** **END OF ANNEXURE – B** *****

**Format of Authorization & Backup Warranty by Manufacturers to Sole
Selling Agent/Dealer/Distributor/Supply House
(To be typed on the letter head of the Manufacturers)**

Ref. No. _____

Date _____

Sub: Authorization & Backup Warranty

Ref: Your tender No. _____ **Dated** _____

To,
The HOD-Materials
Materials Deptt,
OIL, Duliajan

Sir,

We, M/s..... (Name & address of the Manufacturer) hereby authorize M/s..... (Name & address of the Bidder) to submit their Bid against Tender No..... floated by OIL INDIA LIMITED (OIL) for supply tendered goods, which will be manufactured by us. As we do not participate directly against such tendering process, we authorize M/s. (name of the Bidder) to participate as our only Sole Selling Agent/Dealer/Distributor/Supply House (strike out whichever is not applicable) against the tender.

We hereby guarantee the supply through M/s..... (name of the Bidder) in the event of placement of purchase order by OIL and shall provide all back-up supports as may be necessary including for the quality & workmanship of supplied materials.

This authorization and back-up warrantee/guaranty shall remain valid throughout the execution by M/s. (Name of the Bidder) including the defect liability period, in the event of an order by OIL on them.

Yours faithfully,
For (Name of the manufacture)

Name & Signature of Authorized signatory:

Designation :

Phone No.

Place :

Date :

Seal of the Manufactuer:

CHECK LIST

THE CHECK LIST MUST BE COMPLETED AND RETURNED WITH YOUR OFFER. PLEASE ENSURE THAT ALL THESE POINTS ARE COVERED IN YOUR OFFER. THESE WILL ENSURE THAT YOUR OFFER IS PROPERLY EVALUATED. PLEASE SELECT "Yes" OR "No" TO THE FOLLOWING QUESTIONS, IN THE RIGHT HAND COLUMN.

Sl#	REQUIREMENT	COMPLIANCE
1.0	Whether bid submitted under Single Stage Two Bid System?	Yes / No
2.0	Whether quoted as manufacturer?	Yes / No
2.1	Whether quoted as OEM Dealer / Supply House. To Specify-	Yes / No
2.2	If quoted as OEM Dealer / Supply House	Yes / No
	(a) Whether submitted valid and proper authorization letter from manufacturer confirming that bidder is their authorized Dealer / supply House for the product offered ?	
	(b) Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	
3.0	Whether ORIGINAL Bid Bond (not copy of Bid Bond) as per Revised Format(Annexure VII Revised) Sent separately? If YES, provide details	Yes / No
	(a) Amount :	
	(b) Name of issuing Bank :	
	(c) Validity of Bid Bond :	
4.0	Whether offered firm prices ?	Yes / No
4.1	Whether quoted offer validity of 120 days from the bid closing date of tender?	Yes / No
4.2	Whether quoted a firm delivery period?	Yes / No
4.3	Whether agreed to the NIT Warranty clause?	Yes / No
4.4	Whether confirmed acceptance of NIT Payment Terms	Yes / No
5.0	Whether confirmed to submit PBG as asked for in NIT?	Yes / No
5.1	Whether agreed to submit PBG within 30 days of placement of order?	Yes / No
6.0	Whether Price submitted as per Price Schedule ?	Yes / No
7.0	Whether quoted as per NIT (without any deviations)?	Yes / No
7.0	Whether quoted any deviation?	Yes / No
7.1	Whether deviation separately highlighted?	Yes / No
8.0	Whether indicated the country of origin for the items quoted?	Yes / No
8.1	Whether technical literature / catalogue enclosed?	Yes / No
8.2	Whether weight & volume of items offered indicated?	Yes / No
9.0	For Foreign Bidders - Whether offered FOB / FCA port of despatch including sea / air worthy packing & forwarding?	Yes / No
9.1	For Foreign Bidders – Whether port of shipment indicated. To specify:	Yes / No
9.2	For Foreign Bidders only - Whether indicated ocean freight up to Kolkata port (Excluding marine insurance) ?	Yes / No
9.3	Whether Indian Agent applicable ?	Yes / No
	If YES, whether following details of Indian Agent provided?	
	(a) Name & address of the agent in India – To indicate	

	(b) Amount of agency commission – To indicate	
	(c) Whether agency commission included in quoted material value?	
10.0	For Indian Bidders – Whether indicated the place from where the goods will be dispatched. To specify :	Yes / No
10.1	For Indian Bidders – Whether road transportation charges up to Duliajan quoted?	Yes / No
10.2	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	Yes / No
10.3	For Indian Bidders only - Whether indicated import content in the offer?	Yes / No
10.4	For Indian Bidders only - Whether offered Deemed Export prices?	Yes / No
10.5	For Indian Bidders only – Whether all applicable Taxes & Duties have been quoted?	Yes / No
11.0	Whether all BRC/BEC clauses accepted ?	Yes / No
12.0	Whether Integrity Pact with digital signature uploaded?	Yes / No
12.1	Whether all the clauses in the Integrity Pact have been accepted?	Yes / No

C. TO BE FILLED UP IN DETAIL:

S1 No	Requirement	Bidder's Reply
01	Name of Manufacturer	
02	Bid validity	
03	Payment Terms	
04	Guarantee/Warranty Terms	
05	Delivery Period	
08	Port of Despatch / Despatching Station	
09	Confirm submission Integrity pact, if required as per NIT	
10	Confirm submission PBG, if required as per NIT	
11	Compliance to: Liquidated Damage Warranty/Guarantee Arbitration/Resolution of Dispute Force Majeure Applicable laws	
12	Confirm submission of the balance sheet/Financial Statements for the financial year 2018-19. If not, whether declaration as per BRC submitted.	
13	Exception/Deviations quoted, if any, to be given in details or refer to respective page of the bid documents	

Signature _____
Name _____
Designation _____

.....

CERTIFICATE OF ANNUAL TURNOVER & NET WORTH

TO BE ISSUED BY PRACTISING **CHARTARD 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..... **(as the case may be)** are correct

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

*Rate of conversion (if used any): USD 1.00 = INR

Place:

Date:

Seal

Membership No:

Registration Code:

Signature

***Applicable only for GLOBAL tenders**

BID REJECTION CRITERIA (TECHNICAL) EVALUATION MATRIX
(TO BE FILLED IN BY BIDDER DULY SIGNED)

Clause No.	Clause / Description	Bidders Remarks Complied / Not Complied / Deviation	Bidder to indicate Relevant Page No of their Bid to support the Remarks / compliance
1.0	<u>BIDDER'S QUALIFICATION:</u>	-	-
1.1	The bidder shall be an Original Equipment Manufacturer (OEM) of Coiled Tubing Unit (CTU).	-	-
	OR	-	-
1.2	<p>The bidder shall be a Sole Selling Agent/Dealer/Distributor/Supply House of OEM of Coiled Tubing Unit (CTU).</p> <p><u>Note:</u></p> <p>a) A valid Authorization letter and back-up warranty from the manufacturer as per format enclosed herein vide APPENDIX-B1. The Authorization letter must be duly sealed & signed by the Manufacturer on their official letter head and the status of the Bidder (whether Sole Selling Agent/Dealer/Distributor/Supply House) should be identified.</p> <p>b) The Sole Selling Agent/Dealer/Distributor/Supply House shall categorically confirm in their technical bid that there will be no change of the proposed OEM after submission of the bid.</p>	-	-

2.0	<u>BIDDER'S EXPERIENCE:</u>	-	-
2.1	In case the Bidder is an Original Equipment Manufacturer (OEM) of Coiled Tubing Unit (CTU), the bidder shall have the experience of successful execution (supply, installation and commissioning) of order(s) for 50% of tender item quantity rounded off to next higher integer (i.e. 01 no) of tender item (i.e. coil tubing unit) in last five (05) years preceding the bid closing date of this tender to any E&P company or service provider to an E&P company. Documentary evidences in this regard must be submitted along with the Technical Bid as per Para 2.3.	-	-
2.2	In case the Bidder is a Sole Selling Agent/Dealer/Distributor/Supply House of the Original Equipment Manufacturer (OEM) of Coiled Tubing Unit, the following criteria shall be met by the Bidder and the OEM:	-	-
2.2 (i)	The Bidder as a Sole Selling Agent/Dealer/Distributor/Supply House shall have the experience of successful execution (supply, installation and commissioning) of order(s) for 50% of tender item quantity rounded off to next higher integer (i.e. 01 no) of tender item (i.e. coil tubing unit) (manufactured by either the proposed OEM or any other OEM) in last five (05) years preceding the bid closing date of this tender to any E&P company or service provider to an E&P company. Documentary evidences in this regard must be submitted along with the Technical Bid as per Para 2.3.	-	-
2.2 (ii)	Their Original Equipment Manufacturer (OEM) must meet the experience criteria set out in para 2.1 above and documentary evidences in this regard must be submitted alongwith the Technical Bid as per para 2.3.	-	-

2.3	NOTES TO BIDDER REGARDING EXPERIENCE CRITERIA		
2.3.1	<p>The following documentary evidences to substantiate above experience records (2.1 and 2.2, as applicable) of the Bidder must be submitted alongwith the technical bid, failing which the Bid shall be treated as incomplete and rejected:</p> <p>(a) Copy of Purchase order(s)/contract(s) awarded by Client(s)</p> <p>(b) Any one or combination of the following documents that confirms the successful execution of each of the purchase order(s) / contract(s) -</p> <p>True copies of Original Signed and sealed Completion report/performance certificate from the clients (on Client's/User's official letter head with signature & stamp) duly notarized by Government Notary.</p> <p>OR</p> <p>Copy of Bill of Lading</p> <p>OR</p> <p>Copy of Consignee delivery receipts/challans</p> <p>OR</p> <p>Copy of Tax Invoice/Excise Gate Pass issued under relevant Act/rules</p> <p>OR</p> <p>Copy of Commercial Invoice/Payment Certificate</p>		
2.3.2	The date of purchase order(s)/contract(s) need not be within five (5) years preceding the original bid closing date of the Tender, but execution/ supply of required quantity must be within five (5) years preceding the original bid closing date of this tender.		
2.3.3	The service provider to an E&P company shall mean company who has bought the tender item (coil tubing Unit) and has provided service to an E&P company utilising the tender item (Coil Tubing Unit).		
2.3.4	In case experience credentials is submitted for past supply to a service provider, the submitted documents (as per para 2.3.1) should clearly indicate name of the E&P Company for which the tender item has been utilized. On the contrary, a declaration from the service provider (on their official letter head with signature & stamp) is required to be submitted stating the name of the E&P company for which the tender item has been utilised for providing service.		

2.3.5	In case of extension to the scheduled Bid Closing date of this tender, if any, the Original scheduled Bid closing Date shall be considered for evaluation of Bids.		
2.3.6	Against all supporting documents submitted by the bidder alongwith the technical bid, originals must be kept ready and to be produced for verification of OIL, if called for.		
3.0	<p><u>DELIVERY PERIOD:</u></p> <p>Time is of the essence and materials must be supplied within Eight (8) months in the event of an order. Therefore, Bids submitted by Bidders quoting delivery schedule more than Eight (8) months shall not be accepted. Overseas Bidders must quote shipment (FOB) within Eight (8) months from the date of opening of Letter of Credit by OIL and indigenous Bidders must quote delivery within Eight (8) months from the date of placement of order by OIL. Date of unambiguous Bill of Lading (B/L) for foreign supplier and date of LR/C Note shall be considered as the date of delivery. Bidders must categorically confirm the above in their Technical Bid, failing which the offer shall be summarily rejected.</p>		