ऑयल इंडिया
OIL INDIA

MATERIALS DEPARTMENT
P.O. Duliajan, Dist. Dibrugarh
ASSAM, PIN – 786 602, INDIA

FORWARDING LETTER

Subject: Tender No. SDG0510P26/P7 dated 30.10.2025 for Coiled Tubing Unit, Qty = 1 No.

Dear Sir/Madam,

1.0 **OIL INDIA LIMITED (OIL)** is a premier National Oil Company engaged in the business of Exploration, Production and Transportation of Crude Oil and Natural gas. A Company under the Ministry of Petroleum and Natural gas, Government of India (GOI), with its Headquarters at Duliajan, Assam. Duliajan is connected by Air with nearest Airport at Dibrugarh, 45 km away.

2.0 In connection to its operations, OIL invites **INTERNATIONAL COMPETITIVE BIDS** from competent and experienced bidders through OIL's e-procurement site for the items mentioned below. One complete set of Bid Document for above is uploaded in OIL's e-procurement portal. You are invited to submit your most competitive bid on or before the scheduled bid closing date and time through OIL's e-procurement portal. For your ready reference, few salient points of the Tender are highlighted below:

	E-Tender No.	:	**SDG0510P26/P7 dated 30.10.2025**
	Type of Bidding	:	**SINGLE STAGE TWO BID SYSTEM**
	Bid Closing Date & Time	:	As mentioned in OIL's E- procurement portal at 11:00 HRS.
	Technical Bid Opening Date & Time	:	As mentioned in OIL's E- procurement portal at 13:00 HRS.
	Price Bid Opening Date & Time	:	To be decided later and shall be intimated separately to the technically qualified bidders only.
	Bid Security and Validity	:	**INR 1.06 Crores or USD 121,000.00 valid upto 30.06.2026**
	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.
	Performance Guarantee	:	Applicable @ 5% of Order value
	Integrity Pact	:	Applicable
	MSE Purchase Preference	:	Applicable
	Preference To Make In India) order (MII	:	Applicable

	Purchase Preference		
	Preference to domestically manufactured Iron and Steel product (DMI&SP Policy)	:	Not Applicable
	Document Verification by independent third party inspection agencies	:	Applicable *(Detailed in clause 47 of under CC: General Notes to Bidders of Annexure – A)*
	Restrictions on procurement from a bidder of a country which shares a land border with India	:	Applicable
	Sustainable Development (SD) and Environment, Social & Governance (ESG) Policy	:	Applicable
	OIL's Banning policy	:	Applicable
	Pre - despatch inspection	:	Applicable
	Third party inspection (TPI)	:	Applicable – By Supplier
	Installation & Commissioning	:	Applicable
	Training	:	Applicable
	Annual Maintenance Contract	:	Not Applicable
	Contact Details	:	Tuhin Roy, Deputy General Manager Materials (FP-07) E-MAIL: tuhin_roy@oilindia.in PHN: 0374-2808754
	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, APPENDICES & PROFORMAS			
PART - A	Annexure - A	:	Tender details and various notes to bidders
	Annexure - B	:	Item specifications and detailed scope of work
	Annexure - C	:	Bid Rejection Criteria/Bid Evaluation Criteria
	Annexure - D	:	Technical & Commercial Check List
	Annexure – E	:	Price Bid Format/Price Schedule – For Domestic & Foreign Bidders *(Attached in 'Notes & Attachments')*
PART - B	Annexure - F	:	AA: General Notes to Bidders BB: Additional Notes to Bidders
	Appendix - A1	:	Public Procurement (Preference To Make In

			India) order (PPP- MII Order)
	Appendix - A2	:	Policy for providing preference to Domestically Manufactured Iron & Steel Products (DMI & SP)
	Appendix - A3	:	Amendment to DMI&SP vide Gazette notification No. S-13026/1/2020- IDD dated 31.12.2020 and amendments thereof, Ministry of Steel for certain amendment to DMI&SP policy
	Appendix - A4	:	Restrictions on procurement from a bidder of a country which shares a land border with India.
	General Terms & Conditions (GTC-1)	:	General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders).
	General Conditions of Contract (GTC -2)	:	General Terms & Conditions for Services (Applicable for AMC cases)
	Proforma - 1	:	Format for Bid Security
	Proforma - 2	:	Format for Integrity Pact
	Proforma - 3	:	Format for Performance Security
	Proforma - 4	:	Format for undertaking towards submission of authentic information/ documents
	Proforma - 5	:	Format for undertaking towards compliance of restriction on procurement from a bidder of a country which shares a land border with India
	Proforma - 6	:	Form 10F
	Proforma - 7	:	Format for No Business Connection or Permanent Establishment Certificate
	Proforma - 8	:	Format for undertaking towards compliance of Financial Criteria
	Proforma - 9	:	Format for Annual Turn Over and Networth Certificate
	Proforma - 10	:	Format for Corporate Guarantee towards Financial Standing
	Proforma - 11	:	Format for Authorization letter For attending Tender Opening
	Proforma – 12	:	Format for Exception / Deviation
	Proforma – 13	:	Format for Undertaking For Local Content
	Proforma – 14	:	Format for Power of Attorney / Authorization letter (Regarding authority for submission of bid)
	Proforma – 15	:	Format for Bidders financial standing
	Proforma – 16 A Proforma – 16 B	:	Format for declaration that bidder is not under holiday list/delisted/blacklisted/debarred Format for declaration of NCLT / NCLAT /DRT / DRAT/ Court Receivership/ Liquidation
	Proforma – 17	:	Format for Inspection Certificate to be issued

			by Independent Inspection Agencies against Document Verification Clause
	Proforma - 18	:	Format for Bank Guarantee linked with Advance Payment
	Proforma -19	:	Format for Insurance surety bond for Bid security and Performance security
	Proforma -20	:	Format for Sustainable Development (SD) and Environment, Social & Governance (ESG) Policy

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

Thanking You
Yours Faithfully,
OIL INDIA LIMITED

(Tuhin Roy)
DGM - Materials (FP-07)
For GM-Materials (HoD)
For Resident Chief Executive

PART – A

Annexure - A	**:**	**AA: Item Details and Quantities of Item** **BB: Pre-Bid Conference**
Annexure - B	**:**	**AA: Technical Specifications** **BB: Special Notes to Bidders** **CC: General Notes to Bidders**
Annexure - C	**:**	**Bid Evaluation Criteria**
Annexure - D	**:**	**Technical & Commercial Check List**
Annexure - E	**:**	**Price Bid Format/Price Schedule – For Foreign & Domestic Bidders *(Attached in 'Notes & Attachments')***

ANNEXURE – A

AA: ITEM DETAILS & QUANTITY OF ITEMS

SL NO.	ITEM DESCRIPTION	QUANTITY
10	Coiled Tubing Unit (CTU)	1 No.
20	Installation, Commissioning and Training	1 AU

BB: PRE-BID CONFERENCE:

a) Pre-Bid Conference is scheduled to be held at **OIL INDIA LIMITED, DULIAJAN, ASSAM 786602** tentatively on **10.11.2025 & 11.11.2025** to explain the requirements of OIL in details to the interested prospective Bidders and to understand bidders' perspective including exchange of views/clarifications, if any, on the Scope of Work, Bid Rejection/Bid Evaluation Criteria and other terms & conditions of the Tender.

Bidders interested to attend the pre-bid conference as above must send their confirmation to: Mr. Tuhin Roy, Deputy General Manager Materials (FD), Oil India Limited, P.O. Duliajan–786602, ASSAM, E-mail: tuhin_roy@oilindia.in at least 2 (Two) days prior to the date of pre-bid conference.

Those bidders who send their confirmation for participation at least 2 (Two) days prior to date of pre-bid conference shall be allowed to attend the pre-bid conference.

b) The prospective bidders shall submit their queries against tender conditions, through e-mail at least 2 (Two) days prior to the date of pre-bid conference. OIL expects that the Bidders should comply to the tender conditions in Toto. However, clarifications/exceptions /deviations, if required any, should be brought out by the bidders prior to or during the Pre-Bid Conference only. After processing these suggestions, as a sequel to the pre-bid conference, Company shall communicate the changes/modifications in this regard, if agreed any, through an addendum to tender document in e-portal and thereafter Company shall be at liberty to reject all such non-compliant Bids.

c) Maximum Two (2) representatives from each prospective bidder (authorized to participate in the tender), shall be allowed to participate in the pre-bid conference. All costs associated to attend the pre-bid conference by Bidders representatives shall be borne by the interested Bidders.

d) Details :

Pre Bid Queries/ Clarifications on the Tender	To submit through e-mail to tuhin_roy@oilindia.in.
Date of Pre-bid Conference	**10-11-2025 & 11-11-2025**
Venue	**OIL INDIA LIMITED, DULIAJAN, ASSAM 786602**
Last date for receipt of Pre-bid participation confirmation	08-11-2025
Time of Pre-bid Conference	09.00 Hours (IST)

ANNEXURE – B

AA: TECHNICAL SPECIFICATIONS:

Details Technical Specifications as per Annexure-AAA enclosed.

BB: Special Notes to Bidders

As per Annexure-AAA enclosed.

CC: General Notes to Bidders:

1. PAYMENT TERMS: 80% of cost of materials will be paid against supply through Letter of Credit (LC) for Foreign bidders and balance 20% of cost of materials after satisfactory installation & commissioning at site along with the installation & commissioning charges through Sight Draft after adjustment of liquidated damages, if any. Bidders must confirm acceptance of the payment term while quoting. Payment towards pre-despatch inspection and training will be released through Sight Draft after successful completion of pre-despatch inspection & training and against submission of invoice.

   For Domestic bidders, 80% of cost of materials will be paid after receipt of items at site against submission of despatch documents to OIL and balance 20% of cost of materials after satisfactory installation & commissioning at site along with the installation & commissioning charges after adjustment of liquidated damages, if any. Bidders must confirm acceptance of the payment term while quoting. Payment towards pre-despatch inspection and training will be released after successful completion of pre-despatch inspection & training and against submission of invoice

   Note:

   i) Request for payment/part payment to third party (i.e., other than the party on whom the order has been placed) will not be entertained by OIL under any circumstances. The offers stipulating payment/part payment to such third party will be considered as non-responsive and such offers will be rejected.

   ii) Any other payment term other than above shall be considered as Advance Payment for which bidder(s) must refer to Clause no. 33.1 of part: CC of Annexure-A.

2. Advance Payment:

   A) Request for advance payment shall not be normally considered. However, depending on merit and at the sole discretion of OIL, advance payment may be agreed at an interest rate of 1% above the prevailing Bank rate (CC rate) of State Bank of India compounding on quarterly basis from the date of payment of the advance till recovery/refund.

   B) Advance payment if agreed to by OIL shall be paid only against submission of an acceptable Bank Guarantee [PROFORMA-A7] whose value should be equivalent to the amount of advance plus the amount of interest estimated by OIL on the basis of contractual delivery period without further reference.

C) Bank Guarantee shall be valid for 3 (three) months beyond the delivery period incorporated in the order and same shall be invoked in the event of Seller's failure to execute the order within the stipulated delivery period.

D) In the event of any extension to the delivery date, seller shall enhance the value of the bank guarantee to cover the interest for the extended period and also shall extend the validity of bank guarantee accordingly.

E) Advance paid, if any along with the interest amount (as mentioned above) shall be recovered from supplier's first bill/invoice.

F) In no case, total value of advance payment shall exceed 10% of the purchase order value towards supply.

G) Advance payment if agreed to by OIL shall be paid after approval of drawings by OIL.

3. Domestic bidders are to quote and accept their payment in INR only; Indian agents of foreign suppliers are to receive their agency commission in INR; costs of imported goods, which are directly imported against the contract, may be quoted in foreign currency (currencies) and paid accordingly in that currency; and the portion of the allied work and services, which are to be undertaken in India (like installation and commissioning of equipment) are to be quoted and paid in INR.

4. Any statutory variation (increase/decrease) in the rate of Excise duty/Sales tax/ GST / Customs Duty or any statutory levy and Exchange rate after the closing date of tenders/revised priced bid, as the case may be, but within the contractual delivery/completion period will be to the account of OIL subject to documentary evidence. However, any increase in Excise duty/Sales tax/ GST / Customs Duty or any statutory levy and Exchange rate after the expiry of the scheduled date of delivery shall be to the supplier's account. Any decrease in Excise duty/Sales tax/ GST / Customs Duty or any statutory levy and Exchange rate shall be passed on to OIL.

5. The item shall be brand new, unused and of prime quality. Bidder shall warrant (in the event of order) that the product supplied will be free from all defects & faults in the material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 12 (twelve) months from the date of successful field commissioning of the entire equipment. The defective materials, if any rejected by OIL shall be replaced by the supplier at their own expense. Bidder must confirm the same in the quotation.

6. The Bidder should indicate the dimensions and weight of the offered items, the name of the manufacturer, the country of origin, Local / Import content and place of dispatch of the materials.

7. In the event of an order on indigenous bidder, OIL will issue Project Authority Certificate (PAC) under Deemed Export Benefit Scheme (as per Govt. Policy in vogue), where import content is declared by the bidder for availing Custom Duty benefit on the import content. The PAC will be issued in the name of the indigenous bidder including the name of the sub-vendors as declared in their offer or as per the format issued by competent authority at time of placement of order.

8. In case the bidder has satisfactorily executed development order (i.e. including satisfactory inspection and Field Trial Testing) for each of similar tendered item of same or higher capacity in the past in OIL/ONGCL, then the bidder does not have to satisfy past supply experience criteria of BEC /BRC in OIL provided the specification of items matches to that of OIL.

9. Delivery: Materials must be delivered within delivery date mentioned in the tender.

10. For payment through LC, Supplier shall submit following documents within 30 days of receipt of PO. Letter of credit (LC) shall be opened within 30 days of receipt of following documents:

- Receipt and subsequent verification of Performance Security to be submitted to Materials Deptt, Duliajan.

- Receipt of current year TRC, PE, Form 10F, bank details, Payment Favouring, HSN Code. to be submitted to Shipping office, Kolkata.

11. Sustainable Development (SD) and Environment, Social & Governance (ESG) Policy -

Consequent to the implementation of Sustainable Development (SD) and Environment, Social & Governance (ESG) Policy in OIL, effective from 28.08.2024. For purchase orders value INR 20 Crores and above the successful bidder shall be required to submit a duly filled ESG Questionnaire in the prescribed format within fifteen (15) calendar days from the date of issue of purchase order. Failure to submit the completed ESG Questionnaire within the stipulated timeline may be treated as non-compliance with contractual obligations and dealt with accordingly.

The ESG Questionnaire, along with an Explanatory Note for guidance, is provided as Proforma - 20 of the tender document.

12. Liquidated Damages (LD):

i) LD shall be applicable @ 0.5% per week or on part thereof of the value of the goods in respect of which default in delivery/completion time takes place subject to a maximum of 7.5 % of the total supply order value of the delayed goods.

ii) In case of package items (ordered as a complete system including site works, if any), LD shall be applicable on the entire order value of that package and not on the value of the undelivered portions (even though a billing breakup has been approved).

iii) In case of purchase of bulk items where tolerance limit is specified (e.g. pipes, cables etc.), LD shall be applicable on the actual quantity supplied, within the tolerance limit, instead of Purchase Order quantity.

iv) In case of orders where installation and commissioning is involved, LD shall be applicable on delivery as well as Installation and Commissioning.

v) Both Seller and Purchaser agree that the above percentages of LD are genuine pre estimates of the loss/damage which the Purchaser would have suffered on account of delay/breach on the part of the Seller and the said amount will be payable on demand without there being any proof of the actual loss or

damage caused by such breach/delay. Decision of the Purchaser in the matter of applicability of price reduction shall be final and binding.

13. GST- The items covered in this Tender shall be used by Oil India Limited in the Petroleum Exploration License (PEL) and Mining Lease (ML) areas and hence GST @18% will be applicable as per Govt. Policy in vogue.

****

ANNEXURE - C

BID EVALUATION CRITERIA (BEC)

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:

EVALUATION MATRIX FOR BEC-TECHNICAL (TO BE DULY FILLED IN BY BIDDER AND SIGNED)			
Clause Number	**DESCRIPTION**	**BIDDER'S RESPONSE (TO BE FILLED BY THE BIDDER)**	
		(Confirmed/Confirmed/Complied / Not Complied / Deviation / Not Applicable)	**Relevant Location of their Bid to support the remarks / compliance** (Reference of Document name / Serial number / Page number of bid for documentary evidence)
(A.1)	**BEC-TECHNICAL:**		
1.0	**BIDDER'S QUALIFICATION:**		
1.1	The bidder shall be an Original Equipment Manufacturer (OEM) i.e., Designer & Manufacturer of Coiled Tubing Unit (CTU) and shall be in the business for at least seven (07) years preceding original bid closing date (BCD) of this tender. Note: a. Documentary evidence in this regard must be submitted as per Para 2.3. along with the bid. b. The date of Purchase Order submitted should be prior to seven (07) years preceding original bid closing date (BCD) of this tender.		
	OR		
1.2	The bidder shall be a Sole Selling Agent/Dealer/Distributor/Supply House of an Original Equipment Manufacturer (OEM) of Coiled Tubing Unit (CTU) and the proposed OEM should meet the qualification as per Clause 1.1.		

	Note: a) A valid Authorization Letter with back-up warranty from the OEM, confirming the bidder's status as their authorized Sole Selling Agent/Dealer/Distributor/Supply House (as the case may be), should be submitted with the bid. The Authorization letter must be duly sealed & signed by the OEM on their official letter head. b) The authorization certificate / letter shall be valid for the entire period of execution of the order. The Bidder shall categorically confirm in their technical bid that there will be no change of the proposed OEM after submission of the bid.		
1.3	The bidder/OEM must submit an undertaking along with the Technical Bid that their offered equipment is not going to become obsolete during the next ten (10) years from the date of successful Commissioning of the Unit. The bidder/OEM must also guarantee uninterrupted supply of spares and availability of services for at least ten (10) years with effect from the successful Commissioning of the equipment.		
2.0	**BIDDER'S EXPERIENCE:**		
2.1	**In case the Bidder is an Original Equipment Manufacturer (OEM):**		
2.1.1	The bidder shall have the experience of successfully executed order for design, manufacture, supply, and commissioning of one (01) number of Tendered item or similar item, in last seven (07) years reckon from the original bid closing date of this tender to any E&P company or service provider to an E&P company, either by themselves or through their Sole Selling Agent/ Dealer/ Distributor/ Supply House. Documentary evidence in this regard must be submitted as per Para 2.3. along with the bid. **Similar item: Truck mounted Coil Tubing Unit.**		
2.2	**In case the Bidder is a Sole Selling Agent/Dealer/Distributor/Supply House of an Original Equipment Manufacturer (OEM):**		
2.2.1	The bidder shall have the experience of successfully executed order for supply and commissioning of one (01) number of Tendered item or similar item, in last seven (07) years reckon from the original bid closing date of this tender to any E&P company or service provider to an E&P company, as a Sole Selling Agent/ Dealer/ Distributor/ Supply House of an OEM. Documentary evidence in this regard must be submitted as per Para 2.3. along with the bid. **Similar item: Truck mounted Coil Tubing Unit.**		
2.2.2	Their Original Equipment Manufacturer (OEM) must meet the experience criteria set out in para 2.1 above and documentary evidence 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 documents shall be submitted by the bidder in support of the above clause 2.1 & 2.2, as applicable along with the technical bid, failing which the Bid shall be treated as incomplete and rejected: i. Copy of Purchase order(s)/contract(s) awarded by Client(s) ii. Copy of Commercial Invoice/Payment Certificate iii. Copy of Bill of Lading Copy of Commissioning Report or any other document from the client which confirms successful execution of the order.		
2.3.2	The date of purchase order(s)/contract(s) need not be within seven (07) years preceding the original bid closing date of the Tender, but execution/ supply of required quantity must be within seven (07) 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 and has provided service to an E&P company utilising the tender item.		
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 any extension to the scheduled Bid Closing date of the tender, the Original scheduled Bid Closing Date shall be considered for evaluation of Bids.		
2.3.6	Against all supporting documents submitted by the bidder along with the technical bid, originals must be kept ready and to be produced for verification of OIL, if called for.		

(A.2) BEC - FINANCIAL:

1.0 The bidder shall have an annual financial turnover from Operations of minimum **INR 26.46 Crores or USD 3,005,000.00** during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender.

{Annual Financial Turnover of the bidder from operations shall mean -''Aggregate value of the realization of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91). }

2.0 "Net Worth" of the bidder must be positive for the financial/accounting year just preceding to the original Bid Closing Date of the Tender.

{ Net worth shall mean: "Share capital + Reserves created out of profits and securities Premium - Aggregate value of accumulated losses (excluding revaluation reserves) - deferred expenditure - Miscellaneous Expenditure to the extent not written off and carried forward Loss - Reserves created out of write back of depreciation and amalgamation".}

3.0 Considering the time required for preparation of Financial Statements, if the last date of preceding financial/accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial/accounting year are not available with the bidder, then the financial turnover of the previous three financial/accounting years excluding the preceding financial/accounting year will be considered. In such cases, the Net worth of the previous financial/accounting year excluding the preceding financial/accounting year will be considered. However, the bidder has to submit an affidavit/ undertaking **(PROFORMA - 8)** certifying that 'the balance sheet/Financial Statements for the financial year (as applicable) has actually not been audited so far'.

Note:

a) For proof of Annual Turnover & Net worth any one of the following documents must be submitted along with the technical bid:-

(i) A certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual Turnover & Net worth as per format prescribed in (PROFORMA –9).

OR

(ii) Financial Statements (Audited Balance Sheet & Profit & Loss account **along with all the schedules/notes forming part of the Balance sheet & Profit and Loss Account**) audited by the auditors appointed under the statute like Companies Act etc. wherever applicable. In cases where the bidding/ supporting company (as applicable) are not required to prepare Audited Financial Statements as per the Law of the Land of the country of the bidding/supporting company as applicable, the bidder shall provide documentary evidence for the same along with a certificate from a practicing Chartered Accountant or equivalent to this effect. The bidder must also submit the financial statement as per the accounting standards of the country of the bidding/supporting company as the case may be, duly certified by the practicing-chartered accountant or equivalent.

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$.

5.0 In case the Bidder is subsidiary company (should be a wholly owned subsidiary of the parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ultimate parent/holding company, then following documents need to be submitted:

(i) Turnover of the parent/ultimate parent/holding company (supporting company) should be in line with Para A.2 (1.0) above.

(ii) Net Worth of the parent/ultimate parent/holding company (supporting company) should be positive in line with Para A.2 (2.0) above

(iii) Corporate Guarantee (PROFORMA - 10) on parent/ultimate parent/holding company's (supporting company) letter head signed by an authorized official undertaking that they would financially support their wholly owned subsidiary company for executing the project/job in case the same is awarded to them.

(iv) A certificate from the Statutory Auditor of the bidding company to establish the relationship and equity percentage holding between bidding company and the supporting company. The certificate should be duly concurred/endorsed by the Company Secretary or one of the Directors of the company concerned.

The above certificate should not be more than 30 days old as on the original bid closing date.

(A.3) BEC – 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 in ORIGINAL amounting to **INR 1.06 Crores or USD 121,000.00 valid upto 30.06.2026** shall be submitted by the Bidder as a part of their Technical Bid. The amount of Bid Security & its validity shall be specified in the covering letter of this bid document. **Any bid not accompanied by a proper bid security in ORIGINAL shall be rejected without any further consideration**. A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

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 Successful bidder will be required to furnish a Performance Bank Guarantee **@ 5 %** of the order value after receipt of PO. The Performance Security specified above must be valid for 3(three) months beyond the Warranty period indicated in the Purchase Order/contract agreement *[Please refer "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)]*. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.

8.0 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.

9.0 Bidders are to quote for all the items in full quantity as indicated in the NIT.

10.0 Bidders 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.

11.0 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) Incase the party refuses to sign Integrity Pact.
c) Original Bid Security not received within the stipulated date & time mentioned in the Tender.
d) 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.

12.0 PRICE SCHEDULE:

Bidder shall submit the Price Break up as per Price Bid Format (ANNEXURE - E). Bidders should fill up the annexure(s), sign and upload under "Notes & Attachments" > "Attachments" only.

13.0 The bidder shall submit an undertaking/declaration as per Proforma 16A confirming that they have read and understood OIL's Banning Policy and that, neither they nor any of their allied concerns or partners or associates or directors, or proprietors involved in any capacity, are currently on OIL's Holiday/Banning List. Further, the bidder shall confirm that neither they nor any of their aforementioned entities have, during the last three years, been involved in any transgression with any company conforming to the Transparency International (TI) approach or with any Public Sector Enterprise of India that could justify exclusion from the tender process. The bidder shall also disclose details of all such allied entities, if any, as required under the Banning Policy.

14.0 Document Verification by independent third party inspection agencies (Applicable for tenders above INR 5.0 Crores only):

Oil India Limited (OIL) has engaged 17 (Seventeen) Independent Inspection Agencies to verify and certify various documents submitted by the bidders required against BEC/BRC of the tender (Details already provided in Part B of Tender, Clause 47.0)

14.1 Bidders are required to have their documents, as mandated under the Bid Evaluation Criteria (BEC) / Bid Rejection Criteria (BRC) of the tender, verified and certified by any one of the empanelled Independent Third-Party Inspection Agencies listed above. The Inspection Certificate, duly issued by the selected agency, must be submitted along with the Technical Bid. All costs related to verification and certification by the Third-Party Inspection Agencies shall be borne solely by the respective bidders. Payments in this regard shall be made directly by the bidders to the Inspection Agencies. OIL shall not be held responsible for any payment-related dispute between the bidders and the inspection agencies.

14.2 The verified and certified documents must be submitted along with the Technical Bid. Any bid submitted with un-verified supporting documents shall not be considered. However, in case a bidder submits its bid along with all relevant supporting documents as per BEC/BRC without getting all/some of them verified by the designated Independent Inspection agency, such bid can be provisionally considered, provided it is accompanied by an Undertaking by the Bidder on their official letterhead towards submission of the duly verified and certified copies/ Inspection Certificate within 07 (Seven) days from the actual date of bid opening to be sent to address **Office of GM-MATERIALS, Materials Department, Oil India Limited, Duliajan -786602, Assam, India and copy of the verified documents to email id : tuhin_roy@oilindia.in**. No reminders or clarifications will be issued by the Company in this regard, and failure to submit the verified/ certified documents within the stipulated time shall result in

outright rejection of the bid, at the sole risk and responsibility of the bidder. If a bidder does not submit the undertaking towards submission of third party certification within 7 days from date of Bid Closing date, but certified document reaches us within the cut-off date of above seven (7) days, then such bids shall be considered.

14.3 An Undertaking from Independent Inspection Agencies for Document Verification as per (Proforma – 17) should be submitted alongwith the Technical bid.

DD: PRICE EVALUATION CRITERIA:

1.0 Items will be evaluated totalwise. Bidders must submit prices as indicated in the Price Bid Format (Annexure E). In case, any charges (except basic material value) are not indicated item wise specifically, the charges quoted would be pro-rata calculated and the same will be binding on the bidder. Hence, bidders are requested to quote accordingly.

2.0 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 the Bid Evaluation Criteria given below:

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

(1) Basic Material Value including cost of all accessories (to indicate HSN code):
(2) Pre-despatch Inspection Charges, if any
(3) Packing & FOB charges
(4) FOB Value (1+2+3)
(5) Ocean Freight Charges upto Kolkata, India
(6) Insurance, @0.5% of Total FOB Value (4)
(7) Banking Charges @1 % of Total FOB Value (4) above in case of payment through Letter of Credit. If confirmed L/C at buyer's account is required, 1.5% of Total FOB Value(4) will be loaded)
(8) CIF Landed Value (4+5+6+7)
(9) Basic Custom Duty (including cess, if any) on (8)
(10) CIF Landed Value + CD (8+9)
(11) IGST (including cess, if any) on (10)
(12) Compensatory Cess on (11), if any:
(13) CIF+CD+GST Landed Value, (10+11+12)
(14) Training Charges, if any:
(15) GST on Training Charges (14):
(16) Installation & Commissioning Charges, if any:
(17) GST on Installation & Commissioning Charges (16):
(18) Grand Total Value (13+14+15+16+17)

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

(1) Basic Material Value including cost of all accessories (to indicate HSN code)
(2) Pre-despatch Inspection Charges, if any inclusive of GST
(3) Packing & Forwarding charges, if any
(4) Total Ex-Works Value (1+2+3)
(5) GST on Ex-Works Value (4)

(6) Compensatory Cess, if any
(7) Total FOR Despatching Station Value (4+5+6)
(8) Inland Freight Charges upto Duliajan, Assam
(9) GST on Inland Freight (8)
(10) Transit Insurance Charges, if any including GST
(11) Training Charges, if any
(12) GST on Training Charges (11)
(13) Installation & Commissioning Charges, if any
(14) GST on Installation & Commissioning Charges (13)
(15) **Grand Total Value** (7+8+9+10+11+12+13+14)

3.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be made as under, subject to corrections/adjustments given herein.

(I) **When only foreign bidders are involved:**
Comparison will be done on Total value vide SI. no 18.

(II) **When both foreign & Domestic bidders are involved:**
Comparison will be done on total value vide SI no 18 of foreign bidder and total value vide SI. no 15(excluding SI no 8, 9, 10) of domestic bidder.

(III) **When only domestic bidders are involved:**
Comparison will be done on Total value vide SI no 15 of Domestic bidder.

Note:

(a) 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.

4.0 Customs Duty:

The items covered under this enquiry shall be used by OIL in the PEL/ML areas issued/renewed after 01/04/99. In terms of Sl. No. 404 of the Customs Notification No.50/2017- Cus dated 30.06.2017 (including amendments thereof), imports of the items specified in List 33 of the Notification are subject to levy of concessional rate of customs duty subject to conditions specified therein.

Similarly, the domestic supply of such goods would attract GST @ 18% as per Gazette Notification No. No. 3/2017- Central Tax (Rate) dated 28.06.2017 (and as amended from time to time).

Bidders shall take note of the prevailing customs notifications including the latest amendment vide gazette Notification No. 30/2024-Customs dated 23.07.2024 while quoting their prices. Bidder should consider concessional Customs Duty only for those items appearing in List-33 therein. Items of their import other than those appearing in List-33 of the said gazette notification shall be considered as duty payable on merit basis in their respective bid. OIL shall issue the requisite undertaking/certificate on request from Contractor for availing concessional rate of customs duty only against the items explicitly covered under List-33 of Customs Notification No. 30/2024-Customs

dated 23.07.2024 or against any other item(s) subsequently declared by the competent authority during the tenure of the contract to be duty exempted/concessional. However, in the event of refusal/denial by Customs Authority to accord exemption/ concession of Customs Duty against import of items which are explicitly covered under List-33 of Notification No. 30/2024-Customs dated 23.07.2024, such applicable customs duty shall be reimbursed at actual by OIL to the Contractor on submission of documentary evidence.

Similarly, the items other than those appearing in List-33 of the said gazette notification, if to be imported by the Contractor for the purpose of execution of contract against this tender, the same shall be considered as duty payable on merit basis and the applicable customs duty thereof must be included by the bidder in their respective bid value. OIL will not issue any Undertaking/Certificate towards customs duty concession/exemption for those items (not included in List-33 of Notification) and the duty payable on merit shall be borne by the Contractor. However, any other item if subsequently notified by the competent authority to be Duty free/concessional during the tenure of the contract, OIL will issue requisite Certificate/Undertaking for Contractor to avail the Customs Duty benefit and the duty benefit must be passed on to OIL. Additionally, for all those items against which the bidder considers the Customs Duty on merit, the list specifying the Customs Duty Rate (percentage) may be furnished, so that subsequent increase/decrease in Customs Duty, if any shall be reimbursed/recovered by OIL as the case may be on documentary evidence.

Bidders should submit the list of items which are to be imported for execution of the contract against this tender prudently along with their bid. Undertaking/Certificate for availing concessional rate of Customs Duty shall be issued by OIL only for the eligible items, provide the same are included in the Proforma-A submitted by the bidder.

Notes:

a. The above stipulations shall prevail over other clauses if stipulated otherwise elsewhere in the original tender document/previous amendments. However, the aforementioned notifications are subject to change as per Government guidelines and the provisions ruling at the time of Bid Closing will be applicable.

5.0 Purchase Preference Clause:

Purchase Preference to Micro and Small Enterprises (MSE) falling within the price band of L1+15% and Purchase Preference Policy Linked with Local Content (PP-LC) falling within the price band of L1+20% shall be applicable to this tender.

5.1 Purchase Preference to MSE Bidders:

Purchase Preference to Micro and Small Enterprises is applicable to this tender. Bidders seeking benefits, under Purchase Preference Policy (MSE) shall have to be registered for that item under the NIC group code under Udyam Registration or UAM.

(i) In case participating MSE Quote price within price band of L1+15%, such MSE shall be considered for award of contract by bringing down their price to L1 price in a situation where L1 price is from someone other than an MSE.

(ii) In case of more than one such MSE qualifying for 15% purchase preference, the contract shall be awarded to lowest eligible MSE amongst the MSEs qualifying for 15% purchase preference.

Documentation required to be submitted by MSEs: Categorization and various criteria applicable to MSE bidders shall be guided by the Gazette Notification No. **CG-DL-E-26062020-220191** dated **26.06.2020** and Amendment vide Gazette Notification no. CG-**DL-E-16062021-227649 dated 16.06.2021** and **No. CG-DL-E-19012022-232763 dated 19.01.2022** and **CG-DL-E-06052022-235600 dated 06.05.2022** issued by MINISTRY OF MICRO, SMALL AND MEDIUM ENTERPRISES, and any amendment thereof.

The bidder claiming the MSE status (MSE-General, MSE-SC/ST, MSE-Woman) against this tender has to submit Udyam Registration Number with Udyam Registration Certificate along with the technical bid for availing the benefits applicable to MSEs.

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

5.2 Purchase Preference Policy (PPP-MII):

Purchase preference under Public Procurement (Preference to Make in India) Order, 2017 of Department for Promotion of Industry and Internal Trade (DPIIT), Govt. of India and as amended time to time with modifications as notified vide **MoPNG Order No. FP-20013/2/2017-FP-PNG-Part (4) (E-41432) dated 26th April 2022** (including subsequent amendments thereof, if any) shall be applicable for this Tender. Bidders are advised to check the provisions of the said notifications for their eligibility to bid and seek benefits for Purchase preference, accordingly. The margin of purchase preference shall be 20%.

5.3 Concurrent Application of Purchase Preference Policies:

The quantities under this tender are splitable in the ratio of 3:2:2 as mentioned above and Public Procurement Policy for MSE Order 2012 and PP(MII) Order 2017 as per Order No. F.1/4/2021-PPD dated 18.05.2023 issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, Govt. of India and any subsequent amendment thereto shall be applicable. Bidders are advised to refer to the said Order for further detail. In case of concurrence application of Purchase Preference Policies, the preference order shall be as mentioned below:

Preference Order	**Category of Bidder**
1st Preference	MSE Class-I Local Supplier
2nd Preference	MSE but Non- Class-I Local Supplier
3rd Preference	Non-MSE but Class-I Local Supplier
4th Preference	Non-MSE Non- Class-I Local Supplier

Note: Further if multiple bidders are falling under a 'category of bidder', the purchase preference for price matching shall be given to MSEs falling within the price band of L1+15%. Purchase preference shall be given in the following order of preference:

1. SC/ST Women-owned MSEs
2. SC/ST owned MSEs
3. Women-owned MSEs
4. Other MSEs

All other guidelines issued in respect of benefits to MSEs shall prevail. Bidder claiming above relaxation/ exemption need to submit necessary documentary proof of their eligibility along with their techno-commercial bid. The certificate must be valid on the bid closing date.

6.0 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.

7.0 While evaluating the bids, the closing rate (B.C. Selling Rate) of exchange declared by State Bank of India on the day prior to price bid opening will be taken into account for conversion of foreign currency into Indian Rupees.

8.0 Submission of Forged Documents:

Bidders should note that Company (OIL) may verify authenticity of all the documents /certificates / information submitted by the bidder(s) against the tender. In case at any stage of tendering process or Contract execution etc., if it is established that bidder has submitted forged documents / certificates / information towards fulfilment of any of the tender / contract conditions, Company shall immediately reject the bid of such bidder(s) or cancel / terminate the contract besides taking action as per OIL's Banning Policy dated 6th January 2017, available in the OIL's website. Accordingly, service provider/vendor to submit the Undertaking of authenticity of information/documents.

9.0 Land Border Sharing:

Bidders should submit an Undertaking that, their bid is compliant to Order No. F.No. 6/18/2019-PPD dated 23.07.2020 issued by Ministry of Finance, Department of Expenditure, Public Procurement Division, Govt. of India (including subsequent amendments thereto, if any), regarding restrictions on procurement from a bidder of a country which shares land border with India.

10.0 Compliance of The Competition Act, 2002: The bidder shall strictly comply with the provisions of the Competition Act, 2002, more particularly, Section-3 of the Act. Any violation of the provisions of the Act shall attract penal action under the Act.

11.0 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 Evaluation Criteria (BEC) mentioned here contradict the Clauses in the General Terms & Conditions of Global Tender of the tender and/or elsewhere, those mentioned in this BEC shall prevail.

****

Proforma – 17

PROFORMA FOR UNDERTAKING FROM THIRD PARTY DOCUMENT VERIFICATION INSPECTION AGENCY
(To be submitted on official letter head)

TO,

GM- MATERIALS
MATERIALS DEPARTMENT
P.O. DULIAJAN, PIN-786602
DIST. DIBRUGARH, ASSAM, INDIA

Sir,

SUB : OIL's tender No. ……

M/s_____having registered office at _____intend to participate in the above referred tender of OIL INDIA LIMITED.

The tender conditions stipulated that the bidder shall submit documents pertaining to Bid Evaluation Criteria / Bid Rejection Criteria (BEC / BRC), duly verified and certified by designated independent Third Party Document Verification Inspection Agency.

In this regard , we hereby certify that copies of documents pertaining to Bid Evaluation Criteria / Bid Rejection Criteria (BEC / BRC), submitted to us by the bidder. M/s _____have been verified and certified by us with originals and found to be genuine and authentic. We have signed and stamped on the copies of all the verified and certified documents having_____nos. pages.

Note: In the event of any requirement, OIL reserves the right to ask the inspection agencies to verify the documents with source, if required at no extra cost to OIL.

Thanking you,

Authorised Person's Signature:_____

Name:_____

****

ANNEXURE - D

TECHNICAL CHECKLIST

&&&

COMMERCIAL CHECK LIST

A. The Commercial 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. No.	**REQUIREMENT**	**COMPLIANCE Yes/No/ Not Applicable**
1.0	Whether bid submitted under Single Stage Two Bid System?	
2.0	Whether quoted as manufacturer?	
2.1	Whether quoted as OEM Dealer/Supply House.	
2.2	If quoted as OEM Dealer/Supply House	
	(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 Purchase Preference claimed? If so, whether under -	
	(i) PPP-MII (Whether relevant documents uploaded?)	
	(ii) MSE (Whether relevant documents uploaded?)	
	(iii) DMS&IP (Whether relevant documents uploaded?)	
4.0	Whether offered firm prices?	
4.1	Whether quoted offer **validity of 120 days from** the bid closing date of tender?	
4.2	Whether quoted a firm delivery period?	
4.3	Whether agreed to the NIT Warranty clause?	
4.4	Whether confirmed acceptance of tender Payment Terms as per Tender?	
4.5	Whether Bid security submitted as per NIT.	
5.0	Whether confirmed to submit PBG as asked for in NIT?	
5.1	Whether agreed to submit PBG within 30 days of placement of order?	
6.0	Whether Price submitted as per Price Schedule?	
6.1	Whether cost of Recommended Spares for 2 years of operations quoted (if applicable)?	
7.0	Whether quoted as per NIT (without any deviations)?	
7.0	Whether quoted any deviation?	
7.1	Whether deviation separately highlighted?	
8.0	Whether indicated the country of origin for the items quoted?	
8.1	Whether technical literature / catalogue enclosed?	
8.2	Whether weight & volume of items offered indicated?	
9.0	For Foreign Bidders - Whether offered FOB/FCA port of despatch including sea/air worthy packing & forwarding?	

9.1	For Foreign Bidders – Whether port of shipment indicated? To specify:	
9.2	For Foreign Bidders only - Whether indicated ocean freight up to Kolkata port (Excluding marine insurance)?	
9.3	Whether Indian Agent applicable?	
	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 :	
10.1	For Indian Bidders – Whether road transportation charges up to Duliajan quoted?	
10.2	For Indian Bidders only - Whether offered Ex-works price is including packing/forwarding charges?	
10.3	For Indian Bidders only - Whether indicated import content in the offer?	
10.4	For Indian Bidders only - Whether offered Deemed Export prices?	
10.5	For Indian Bidders only – Whether all applicable Taxes & Duties have been quoted?	
11.0	Whether all BRC/BEC clauses accepted?	
12.0	Whether Integrity Pact with digital signature uploaded?	
12.1	Whether all the clauses in the Integrity Pact have been accepted?	
13.0	Whether indicated 'Local Content' required as per PPP-MII Policy ?	
14.0	Whether indicated the import content in Price Bid ?	
14.1	Whether submitted Undertaking towards Local Content and CA Certificate towards Local Content (as applicable) (PROFORMA – 13)	
15.0	Whether submitted Undertaking towards submission of authentic information/ documents submitted (PROFORMA – 4)	
16.0	Whether submitted Undertaking for restrictions on procurement from a bidder of a country which shares a land border with India. (Exhibit – I / III / III as applicable)	
17.0	Whether submitted Power of Attorney/ Authorization letter (Regarding authority for submission of bid) in prescribed format (PROFORMA – 14)	
18.0	Whether submitted Declaration about bidder's Financial standing i.e. the bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. (PROFORMA – 15)	
19.0	Whether submitted declaration that bidder is not under holiday list/delisted/blacklisted/debarred (PROFORMA – 16 A) Whether submitted declaration of NCLT / NCLAT /DRT /DRAT/ Court Receivership/ Liquidation (PROFORMA – 16 B)	
20.0	Whether submitted declaration for Document Verification by independent third party inspection agencies (PROFORMA – 17)	
21.0	Whether submitted declaration for Sustainable Development (SD) and Environment, Social & Governance (ESG) Policy (PROFORMA – 20)	

****

B. <u>ADDITIONAL INFORMATION (To be filled up by bidder and submit along with Technical Bid)</u>:

Sl No	Requirement	Bidder's Reply
1	Offer reference & Date	
2	Name, Address, Phone No & E-mail of Bidder	
3	Bank details of Bidder	
4	Name of Manufacturer	
5	Bid validity	
6	Payment Terms	
7	Guarantee/Warranty Terms	
8	Delivery Period	
9	Country of Origin	
10	Port of Despatch/Despatching Station	
11	Confirm submission Integrity pact, if required as per NIT	
12	Confirm acceptance of PBG clause, if required as per NIT	
13	Compliance to: Liquidated Damage Warranty/Guarantee Arbitration/Resolution of Dispute Force Majeure Applicable laws	
14	Confirm submission of the balance sheet/Financial Statements for the financial year (as applicable). If not, whether declaration as per BRC submitted **(PROFORMA - 8).**	
15	Confirm submission of undertaking towards authenticity of submitted documents.	
16	Exception/Deviations quoted, if any, to be given in details or refer to respective page of the bid documents. ANNEXURE III of General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) submitted in this regard?	
17	Whether submitted all the applicable Annexures as per document General Terms & Conditions" for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders).	

C. <u>ADDITIONAL INFORMATION ON EXPERIENCE CRITERIA CLAUSE OF BRC-TECHNICAL. (To be filled up by bidder and submit along with Technical Bid)</u>:

Sl No	**Requirement**	**Bidder's Reply**
1	Whether all documents have been submitted as required for fulfilling Experience criteria clause of BRC-Technical.	
2	Name and details of the vendor to whom the bidder has successfully executed orders / contracts for atleast 50% of the tendered quantity as per Experience criteria clause of BRC-Technical.	
3	Whether submitted the profile and other documents of the E&P company / Drilling Contractor / Drilling Service provider for verification (viz. Annual reports, Memorandum of Association, Article of Association etc.) if applicable	

****

ANNEXURE - E

PRICE BID FORMAT

(Uploaded as attachment in the Attachment Tab "Notes and Attachments" in e-portal)

Annexure – AAA- TO TENDER NO. SDG0510P26/P7 DATED 30.10.2025

Item 10- TRAILER MOUNTED 1.5 INCH – 1.75 INCH COILED TUBING UNIT (CTU) ALONGWITH TRACTOR (PRIMEMOVER) UNIT, Quantity-01 No.

Note to Bidder:

1. The bidder shall provide their response and mention applicable information/ Complied / Not Complied / Not Applicable/ Make & Model etc. (as applicable) against all the below-mentioned clauses.

2. The bidder shall mention details of Reference Document name / Serial number / Page number of bid for documentary evidence (if any).

3. The bidder shall fill up this document and submit it along with their technical bid.

Technical Specifications:

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
1.0	**GENERAL:**	
a.	The Coiled Tubing Unit equipment shall be mounted on semi-Trailer as mentioned in the Tender document and propelled by Tractor (Prime Mover). Offers with Coiled Tubing equipment mounted on truck chassis shall not be acceptable.	
b.	The units shall be operated in national highways, state highways, district roads, rural/village roads, slushy oil & gas well sites which may not be smooth every time. The village roads are sometimes gravel roads as normally encountered in oil & gas fields of India.	
c.	The unit should be capable of operating in ambient temperature ranges of 0° C to +50° C in a 90% relative humidity. The unit with upgraded latest state of the art technology improved version will be acceptable for the basic configuration, accessories, instrumentation, control etc. without affecting the main frame of specification.	
d.	The unit shall be used for application in oil/gas/injection wells which include vertical wells, deviated wells (S-bend or j-bend) and horizontal wells for carrying out of the following well intervention jobs like 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.	
e.	1) The unit shall be capable of handling Crude oil, Plain Water, Acid, Saline Water, High Viscous Fluid, high density slurries of sand / bauxite, resin, xylene, water-foamer, nitrogen or solvent etc. 2) All components and systems should be assembled in a manner so as to provide ease of maintenance.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	3) The unit will be deployed for the wells having the following parameters: a) Well depths : up to 5500.0 meters b) Working pressure : 10,000 PSIG maximum c) Tubing size : $2^{7}/_{8}$" or 3 ½" d) Liner size : 4" or 7" e) Drill Pipe : 5" f) Casing size : 5 ½" or $7^{1}/_{8}$"	
1.1	**SPECIAL FEATURES:**	
a.	The Coiled Tubing Unit (CTU) shall be designed such that the equipment shall have, (a) **1.5 inch Tubing configuration** and (b) **1.75 inch Tubing configuration** as per technical specifications detailed in this tender document. The CTU equipment shall be mounted on the Trailer such that either **1.5 inch Tubing configuration** or **1.75 inch Tubing configuration** shall be fitted on the unit during road movement (i.e. mobilization and de-mobilization) of the unit from the equipment yard to the site, etc. As per job requirement, the item required for alternate tubing configuration, to be assembled on the CTU at site, shall be transported on separate transport vehicle (as specified in Tender **Clause No. 9.3 Tubing Reel Assembly**).	
b.	The item required for alternate tubing configuration, to be assembled on the CTU at site, (as specified in Tender **Clause No. 9.3 Tubing Reel Assembly**) shall have transport dimensions & transport weight as detailed in Clause No. 5.4 of this tender document.	
2.0	**EQUIPMENT DETAILS – TRACTOR & CTU TRAILER COMBINATION:**	
2.1	**OVERALL DIMENSIONS OF EACH COMPLETE UNIT (TRACTOR & CTU TRAILER COMBINATION, i.e., TRACTOR COUPLED WITH THE CTU TRAILER):**	
a.	Overall length of each complete unit (Tractor and CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration.** Not more than **18750 mm**.	
a.1	The bidder shall mention & submit the following information in the technical bid & GA layout diagram with both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** respectively:	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
(i)	Overall length of each complete unit (Tractor and CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.5 inch Tubing configuration**.	
(ii)	Overall length of each complete unit (Tractor and CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.75 inch Tubing configuration**.	
b.	**HEIGHT:** The height of the Tractor of each complete unit shall not exceed **4000 mm** from ground level. The overall height of each complete unit shall not exceed **4500 mm** from ground level except Tractor unit with both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration.**	
b.1	The bidder shall mention & submit the following information in the technical bid & GA layout diagram with both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** respectively:	
(i)	Height of the Tractor of each complete unit from ground level.	
(ii)	Overall height of each complete unit except Tractor unit, from ground level with **1.5 inch Tubing configuration**.	
(iii)	Overall height of each complete unit except Tractor unit, from ground level with **1.75 inch Tubing configuration**.	
c.	Overall width of each complete unit (Tractor and CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration.** Not more than **2600 mm**.	
c.1	The bidder shall mention & submit the following information in the technical bid & GA layout diagram with both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** respectively:	
(i)	Overall width of each complete unit (Tractor and CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.5 inch Tubing configuration**.	
(ii)	Overall width of each complete unit (Tractor and CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.75 inch Tubing configuration**.	
d.	**Ground Clearance:** Ground clearance for the Tractor unit shall be as per the Tractor manufacturer.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	Clearance for Trailer unit Chassis frame bottom from ground near centre shall be **around 550 mm (approx.)** for operational convenience. It shall be supplier's (successful bidder) endeavour to mount subsequently fitted undercarriage components (i.e., other than original Trailer chassis OEM mounted components) at maximum possible height to avoid hitting/fouling while moving on uneven roads.	
d.1	The bidder shall mention & submit the following information in the technical bid:	
(i)	Clearance for Trailer unit Chassis frame bottom from ground near centre.	
2.2	**TOTAL COMBINATION WEIGHT OF EACH COMPLETE UNIT (TRACTOR & CTU TRAILER COMBINATION, i.e., TRACTOR COUPLED WITH THE CTU TRAILER):**	
a.	Total combination weight (mass) of each complete unit (Tractor & CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.5 inch Tubing configuration** shall be within **55,000KG.** Total combination weight (mass) of each complete unit (Tractor & CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.75 inch Tubing configuration** shall be within **55,000KG.** Total combination weight (mass) of each complete unit (Tractor & CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) is the weight of the complete unit, i.e. total of weight of the Tractor with Driver's cabin etc.; weight of Trailer chassis & deck; weight of all equipment, items, tools, accessories, materials, spare wheels, hydraulic oil, all oil, handling fluid with tank, Diesel etc. that are permanently mounted on the unit and are generally being carried & kept in the unit. All load bearing components of the unit like Chassis, Axles, Suspension, Landing Gears etc. shall be capable of taking the total weight of the complete unit with all equipment, handling fluids, items, fittings & accessories with both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** as mentioned in the tender, in all conditions.	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Total combination weight (mass) of each complete unit (Tractor & CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.5 inch Tubing configuration.**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
(ii)	Total combination weight (mass) of each complete unit (Tractor & CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.75 inch Tubing configuration**.	
2.3	**GENERAL ARRANGERMENT (GA) DRAWING OF COMPLETE UNIT:**	
a.	The bidder shall submit GA (General Arrangement) drawing of offered complete unit (Tractor & CTU Trailer combination, i.e., Tractor & CTU Trailer in coupled condition etc.) with **1.5 inch Tubing configuration.** The GA drawing shall have mention of major dimensions of complete unit (like length, height, width, wheelbase, etc.); estimated loading on individual axles of Tractor (Front & Rear) and Trailer (Rear); show the position of all major components & their mounting with **1.5 inch Tubing configuration**. The GA drawing of offered complete unit with **1.5 inch Tubing configuration** shall be submitted along with the technical bid by the bidder.	
b.	The bidder shall submit GA (General Arrangement) drawing of offered complete unit (Tractor & CTU Trailer combination, i.e., Tractor & CTU Trailer in coupled condition etc.) with **1.75 inch Tubing configuration.** The GA drawing shall have mention of major dimensions of complete unit (like length, height, width, wheelbase, etc.); estimated loading on individual axles of Tractor (Front & Rear) and Trailer (Rear); show the position of all major components & their mounting with **1.75 inch Tubing configuration**. The GA drawing of offered complete unit with **1.75 inch Tubing configuration** shall be submitted along with the technical bid by the bidder.	
c.	**Note:** "Complete unit" in above means Tractor & CTU Trailer combination (Tractor coupled with the CTU Trailer), i.e. Tractor with Driver's cabin etc., CTU Trailer, all equipment, items, materials, spare wheels that are permanently mounted on the unit.	
3.0	**SPECIFICATION OF THE TRACTOR (PRIME MOVER):**	
3.1	**MAKE, MODEL & PERIOD OF MANUFACTURE:**	
a.	The Tractor unit shall be brand new, manufactured not earlier than six months from the date of issuance of Oil India Limited (OIL)'s Purchase Order.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
b.	The Tractor unit shall be of the Make: Ashok Leyland/ Tata / Mahindra / Eicher / Bharat Benz / Volvo / Kenworth / International / Peterbilt. The bidder shall take special care in selecting and designing the unit considering its application in national highways, state highways, district roads, rural/village roads, slushy oil & gas well sites which may not be smooth every time. The village roads are sometimes gravel roads as normally encountered in oil & gas fields of India. The offer shall be with make, model, specifications, fittings, accessories etc. as mentioned in the tender.	
c.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Make & Model of the offered Tractor unit.	
(ii)	Wheelbase of the offered Tractor unit. Note: Wheelbase is the distance between centre line of front axle and centre line of empty space between the tyres of the two rear axles.	
(iii)	Technical specification leaflet/ brochure of the offered model of Tractor unit. Note: In case of common technical leaflet / brochure containing multiple models of Tractor unit, bidder shall clearly indicate / highlight the offered model of Tractor unit in the technical leaflet.	
3.2	**GROSS COMBINATION WEIGHT RATING (GCWR):**	
a.	Gross Combination Weight Rating (GCWR) of the Tractor unit when coupled with the offered CTU Trailer shall not exceed **55,000 kg.** This is required for permanent registration of the unit with government authorities as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India. Total combination weight (mass) of each complete unit (Tractor & CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** shall be within Gross Combination Weight Rating (GCWR) of the Tractor unit**.**	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Gross Combination Weight Rating (GCWR) of the Tractor unit when coupled with the offered CTU Trailer shall not exceed **55,000 kg** for permanent registration of the unit**.** **(Yes / No).**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
(ii)	Total combination weight (mass) of each complete unit (Tractor & CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.5 inch Tubing configuration** shall be within Gross Combination Weight Rating (GCWR) of the Tractor unit**. (Yes / No).**	
(iii)	Total combination weight (mass) of each complete unit (Tractor & CTU Trailer combination, i.e., Tractor coupled with the CTU Trailer) with **1.75 inch Tubing configuration** shall be within Gross Combination Weight Rating (GCWR) of the Tractor unit**. (Yes / No).**	
3.3	**TRACTOR ENGINE:**	
a.	One (01) number of water-cooled / liquid-cooled diesel fuel engine of adequate power [not less than **400 HP** at rated rpm] as per manufacturer of the offered Tractor shall be provided.	
b.	The Tractor Engine shall be used for road drive of the complete unit (Tractor & CTU Trailer). The Tractor engine shall not be utilized for any equipment operations specified in the tender. The unit shall be designed in such a way that the entire equipment operations (as specified in the tender) shall be done through Deck Engine including lighting system (except the road drive lightings), air supply system (except the road drive pneumatic system), hydraulic system etc. wherever/whichever required.	
c.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Water-cooled / liquid-cooled diesel fuel Tractor Engine. (Yes/ No).	
(ii)	Make & model of the offered Tractor Engine.	
(iii)	Maximum power of the offered Tractor Engine.	
(iv)	Maximum torque of the offered Tractor Engine.	
(v)	Technical specification catalogue/ brochure with technical details of the offered Tractor Engine.	
3.4	**TRACTOR EMISSION NORMS:**	
a.	The offered Tractor unit shall have to comply with the emission norms BS (Bharat Stage) –VI OBD Stage II / EURO-VI Stage-E. The emission norms shall comply Real Drive Emissions (RDE) and Portable Emissions Measurement System (PEMS).	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Emission norms of the offered Tractor unit.	
3.5	**TRACTOR TRANSMISSION:**	
a.	The offered Tractor unit shall be provided with automatic / automated transmission having forward gears, neutral & reverse gear(s) with **suitable automatic shifter** and **without clutch pedal** as supplied by the Tractor manufacturer for road drive of the complete unit (Tractor & CTU Trailer). The bidder shall note that Manual Transmission with clutch pedal is not acceptable. The offered Transmission shall be compatible with the offered Tractor Engine meeting the tender specifications. The offered Transmission shall be suitable at least up to the Gross Combination Weight Rating (GCWR) of the offered Tractor unit when coupled with the offered CTU Trailer unit.	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Type of offered Tractor transmission (automatic/ automated transmission, with automatic gear shifter).	
(ii)	Make & model of the offered Tractor transmission.	
(iii)	Number of forward gears in the offered Tractor transmission.	
(iv)	Number of reverse gear(s) in the offered Tractor transmission.	
(v)	Technical specification catalogue/ brochure with technical details of the offered Tractor transmission.	
(vi)	Offered Transmission is suitable at least up to the Gross Combination Weight Rating (GCWR) of the offered Tractor unit when coupled with the offered CTU Trailer unit. (Yes / No)	
(vii)	Mechanical power flow block diagram from Engine to Axle / Wheels for Road drive and driving at site indicating all major components like Transmission, Tractor Rear axles, Wheels, etc.	
3.6	**TRACTOR DRIVE (AXLE CONFIGURATION) & AXLES:**	
a.	**Tractor Drive (Axle Configuration) :** The offered Tractor shall have following drive (Axle configuration):	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	6x4 drive [Total 03 Nos. of axles (including Front & Rear) with 02 Nos. of drive axles at Rear].	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Drive of the offered Tractor unit	
c.	**Tractor Front Axle:** One (01) number non powered front steer axle as per design and meeting tender specifications shall be provided. The bidder/supplier shall offer front axle with axle capacity of front axle to meet the design requirement considering the total weight of the complete unit with equipment, handling fluids, etc. in all conditions: (a) With **1.5 inch Tubing configuration** and (b) With **1.75 inch Tubing configuration**. Bidder shall ensure that the loading on the front axle shall be within the axle capacity of the front axle in equipment with **1.5 inch Tubing configuration** & with **1.75 inch Tubing configuration** in all conditions.	
d.	The bidder shall mention & submit the following information in the technical bid for each Tractor unit:	
(i)	Number of front axle in the offered Tractor unit.	
(ii)	Total number of front steer axle.	
(iii)	Total front axle capacity.	
(iv)	Estimated Total loading on front axle **with 1.5 inch Tubing configuration**.	
(v)	Estimated Total loading on front axle **with 1.75 inch Tubing configuration**.	
(vi)	Loading on front axle is within the axle capacity of front axle with **1.5 inch Tubing configuration &** with **1.75 inch Tubing configuration**. (Yes / No).	
e.	**Tractor Rear Axles:** Two (02) numbers of powered rear drive axles as per design and meeting tender specifications shall be provided. The bidder/supplier shall offer rear axles with total axle capacity of the rear axles to meet the design requirement	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	considering the total weight of the complete unit with equipment, handling fluids, etc. in all conditions: (a) With **1.5 inch Tubing configuration** and (b) With **1.75 inch Tubing configuration**. Bidder shall ensure that the loading on the rear axles shall be within the axle capacity of the rear axles in equipment with **1.5 inch Tubing configuration** & with **1.75 inch Tubing configuration** in all conditions. Rear drive axles shall have differential lock facility with alarm/indicator.	
f.	The bidder shall mention & submit the following information in the technical bid for each Tractor unit:	
(i)	Total number of rear axles in the offered Tractor unit.	
(ii)	Total number of powered rear axles.	
(iii)	Total axle capacity for both the rear axles.	
(iv)	Estimated Total loading on rear axles **with 1.5 inch Tubing configuration**.	
(v)	Estimated Total loading on rear axles **with 1.75 inch Tubing configuration**.	
(vi)	Total Loading on rear axles is within the axle capacity of rear axles with **1.5 inch Tubing configuration &** with **1.75 inch Tubing configuration**. (Yes / No).	
(vii)	Differential lock facility in rear drive axles with alarm /indicator (Yes/ No).	
(viii)	Technical specification catalogue/ brochure with technical details of the offered rear axles.	
3.7	**STEERING:**	
a.	The offered Tractor unit shall have Power assisted steering and shall have Right Hand steering system (i.e. steering wheel shall be on the right-hand side inside the Driver's cabin when viewed from the rear of the Tractor unit). Tractor unit with Left Hand steering system shall not be acceptable.	
3.8	**SUSPENSION:**	
a.	**Front Suspension:**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	Heavy duty multi-leaf spring suspension shall be provided. Rubber/ Air/ Hydraulic suspension will not be accepted.	
b.	**Rear Suspension:** Preferably bogie suspension with leaf springs or suitable pneumatic suspension system shall be provided in rear. Hydraulic suspension will not be acceptable.	
c.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Type of offered rear suspension.	
(ii)	Make & model of offered rear suspension.	
(iii)	Technical specification catalogue/ brochure with technical details of the offered rear suspension system.	
3.9	**WHEELS & TYRES:**	
a.	The Tractor unit shall be fitted with suitable wheels with Tube type / Tubeless type Tyre of adequate ply rating. Single wheel on each side of the front axle (i.e. total 02 Nos. of wheels in front axle) and 02 Nos. of wheels on each side of each 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 as per design specifications. Suitable mounting arrangement facility for at least 01 number of spare wheel shall be provided in the unit. It shall be bidder's endeavour to offer front and rear wheels of the Tractor of same size & type. Bidder/prospective supplier is 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, if possible.	
b.	The bidder shall mention & submit the following information in the technical bid for each Tractor unit:	
(i)	Total number of wheels in the front axle. (Axle-wise information to be provided)	
(ii)	Type of Tyres (Tube type / Tubeless type) in the front axles.	
(iii)	Tyre size of front axle wheels.	
(iv)	Total number of wheels in all the rear axles. (Axle-wise information to be provided)	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
(v)	Type of Tyres (Tube type / Tubeless type) in the rear axles.	
(vi)	Tyre size of rear axle wheels.	
(vii)	Mounting arrangement facility for spare wheel is provided in the unit (Yes/No).	
3.10	**BRAKE:**	
a.	Service Brake: Multiple Circuit Pneumatic brake acting on all wheels with Anti-lock Braking System (ABS) shall be provided and to be operated from Driver's Cabin.	
b.	Parking Brake: Suitable parking brake shall be provided in the Driver's Cabin to be used while parking the unit. The parking brake shall be hand operated from Driver's Cabin. It shall automatically get engaged in the event of low/ no air pressure.	
c.	Preferably buzzer warning for low air pressure to be provided.	
3.11	**ELECTRICAL SYSTEM:**	
a.	Suitable electrical starting, charging and lighting systems etc. shall be provided in the Tractor unit.	
b.	Suitable electrical master switch to disengage all electrical circuits from battery shall be provided in the Tractor unit as per Tractor manufacturer, if applicable.	
c.	Covered Battery Box shall be provided. Battery box shall **not** be located inside the Driver's Cabin.	
3.12	**TRACTOR ENGINE FUEL TANK & DIESEL EXHAUST FLUID (DEF) TANK:**	
a.	Lockable engine fuel tank(s) of approximately not less than **300 Liters** total capacity shall be provided in the Tractor unit for road drive of the unit. Suitable strainer at the opening of the tank shall be provided to prevent entry of foreign materials. In case, the Tractor unit comes with multiple fuel tanks, all the Tractor engine fuel tanks shall be connected to each other.	
b.	Suitable Diesel Exhaust Fluid (DEF) tank for Tractor engine shall be provided.	
c.	The bidder shall mention & submit the following information in the technical bid for each Tractor unit:	
(i)	Number of fuel tank(s) in the Tractor unit (for Road Drive only).	
(ii)	Capacity of each fuel tank in the Tractor unit (for Road Drive only).	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
3.13	**DRIVER'S CABIN:**	
a.	The Driver's cabin of the Tractor unit shall be ergonomically designed factory built (original built, supplied with the Tractor unit by the Tractor manufacturer) Air-Conditioned driver's cabin with seating capacity of minimum 02 (two) persons (including Driver). All the controls required for road drive of the unit should be clearly arranged to have easy access to the driver inside the Driver's cabin while driving the unit. The driver's seat & co-driver's seat should be comfortable and ergonomically designed with adjustable mechanism and shall have seat belts as per norms.	
b.	The Tractor unit shall be fitted with dashboard inside the Driver Cabin with all standard gauges & fittings like air pressure gauges, charging system gauge, engine oil pressure gauge, engine temperature gauge, fuel gauge, Transmission oil pressure gauge (if any) & Temperature meters (if any) etc. and any other items with warning displays, as per the Tractor manufacturer.	
c.	The Tractor unit dashboard shall have Speedometer indicating the speed in **Kilometers per hour** and the Odometer shall be with **Kilometers** calibration system.	
d.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Seating capacity (including driver) inside the Driver's cabin.	
3.14	**FIFTH WHEEL COUPLING:**	
a.	The Tractor shall be fitted with compatible "Fifth Wheel Coupling" for coupling the CTU Trailer unit with **Kingpin of size not less than 3.5 inch**. The make of "Fifth Wheel Coupling" shall be of ASHLEY / HYWA / TATA / VOLVO / JOST / YORK / PLHT / GF / SAF / HOLLAND or any other make as per the Tractor manufacturer. The "Fifth Wheel Coupling" shall be provided with fail safe locking arrangement. Height of the "Fifth Wheel Coupling" shall match with the rubbing plate of the CTU Trailer unit for proper locking and engagement. Proper coupling & locking of the Tractor with the CTU Trailer unit is to be ensured by the bidder/prospective supplier.	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Make & Model of offered Fifth Wheel Coupling.	
(ii)	Offered Fifth Wheel Coupling is suitable for Trailer Kingpin size.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
(iii)	Technical specification catalogue/ brochure with technical details of offered Fifth Wheel Coupling.	
3.15	**PNEUMATIC & ELECTRICAL CONNECTION FOR TRAILER:**	
a.	The Tractor unit shall be provided with pneumatic coiled hoses suitable for Trailer brake connection with suitable palm coupling.	
b.	The Tractor unit shall be provided with suitable electrical connection to connect the Trailer Road drive electrical system.	
3.16	**TYPE APPROVAL CERTIFICATE OF TRACTOR:**	
a.	Type Approval Certificate of vehicle is required for the following activities in India: i. Uploading the vehicle details in the relevant Government of India portal (VAHAN / Homologation/ Parivahan portal) for registration of vehicle as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules, 1989 of India which is mandatory for plying of the vehicle in roads in India. ii. Custom clearance of the vehicle as per import policy conditions/guidelines of India Chapter-87 of ITC (HS), 2022, Schedule 1- Import Policy, Section: XVII, in case of imported vehicle from other countries to India.	
b.	In case the offered Tractor is manufactured in India, the offered Tractor shall be compliant to Central Motor Vehicle Rules 1989 of India and its amendments. In case the offered Tractor is imported from other countries to India, the offered Tractor shall be compliant with the import policy of Government of India. The bidder/supplier shall have to submit the Type Approval Certificate of Tractor, as applicable, along with the supply. Submission of Type Approval Certificate of Tractor shall be as per Central Motor Vehicle Rules of India and/or as per the import policy of Government of India, as applicable, as on the date of supply.	
c.	The list of Type Approval Certificate issuing agencies are mentioned in Central Motor Vehicle Rules, 1989 of India & its amendments. In case of imported vehicle from other countries to India, at the time of Customs clearance, a Type Approval Certificate/COP, of an international accredited agency including a notarized English translation thereof shall be furnished. This Type Approval Certificate shall stipulate that vehicle to be imported	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	complies with all the ECE Regulations. The list of international accredited agencies approved for issuance of Type Approval Certificate is available on DGFT website, under Policy Circular No. 12 (RE- 2013)/2009-2014 dated 15.01.2014 issued by Ministry of Commerce & Industry, Department of Commerce, Director General of Foreign Trade, New Delhi subjecting "Type Approval issuing agencies under Policy Condition number 7 and 9 of Chapter 87 of ITC (HS) 2012".	
d.	Bidder/supplier shall ensure adherence to any subsequent revisions to the above referred Policy Circulars that may be issued in future by DGFT. Bidder shall note that, they shall be conversant with the policy of Government of India and Oil India Limited (OIL) shall not be liable in this regard whatsoever.	
e.	Type approval certification of individual components shall not be considered as vehicle Type approval certificate.	
f.	Notwithstanding anything mentioned elsewhere in this document, submission of Type Approval Certificate/ Conformity of Production (CoP) shall be as per the guideline of Government of India as on the date of supply.	
4.0	**SPECIFICATION OF THE CTU TRAILER:**	
a.	The aforementioned 6 x 4 Tractor unit shall be coupled with a suitably designed detachable brand new **semi-trailer**, manufactured after issue of Oil India Limited (OIL)'s Purchase Order. The semi-trailer shall be mounted with all the CTU unit machineries/ equipment, items as specified in the tender. **Note:** "Semi-trailer" means a Trailer, which is intended to be connected to a haulage Tractor and which is so constructed that a portion of it is superimposed on and apart of whose weight is borne by the haulage Tractor.	
b.	The CTU Trailer shall be designed such that the equipment shall have, (a) **1.5 inch Tubing configuration** and (b) **1.75 inch Tubing configuration** as per technical specifications detailed in this tender document. The CTU equipment shall be mounted on the Trailer such that either **1.5 inch Tubing configuration** or **1.75 inch Tubing configuration** shall be fitted on the unit during road movement (i.e. mobilization and de-mobilization) of the unit from the equipment yard to the site, etc. As per job requirement, the item required for alternate tubing configuration, to be assembled on the CTU at site, shall be	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	transported on separate transport vehicle (as specified in Tender **Clause No. 9.3 Tubing Reel Assembly**).	
c.	The bidder/supplier shall ensure adequate gap between Trailer deck and Trailer wheels, so as to ensure that the Trailer wheels do not touch the body of deck of the Trailer or any other machineries/equipment mounted on the Trailer while crossing speed breakers, potholes or any other uneven surface.	
4.1	**TRAILER DIMENSION:**	
a.	**Length of the CTU Trailer:** As per design. However, the overall length of the Tractor and CTU Trailer combination shall not exceed **18750 mm.**	
a.1	The bidder shall mention & submit the following information in the technical bid:	
(i)	Length of the CTU Trailer unit.	
b.	**Overall width of CTU Trailer:** Shall not exceed **2600 mm.**	
b.1	The bidder shall mention & submit the following information in the technical bid:	
(i)	Overall width of CTU Trailer.	
4.2	**CHASSIS FRAME:**	
a.	All welded construction, robust, heavy-duty chassis of steel frame suitably welded and cross braced at close pitch to withstand the load in both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** as mentioned in the tender. The chassis shall provide maximum structural performance in terms of load carrying capacity, bending moment & deflection, maximum tensional stability and long life. Skirt rails, wherever possible shall be provided along the length of the Trailer. The main Chassis frame beam shall be around 450 mm (in height) near the centre of the Trailer and the chassis frame beam is to be reinforced & adequately sized as per manufacturer's standard practice in suspension area etc. to bear the designed load in both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** as mentioned in the tender.	
b.	The bidder shall mention & submit the following information in the technical bid:	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
(i)	Details of the chassis frame beam drawing mentioning the size of the chassis frame beam offered.	
4.3	**TRAILER AXLES:**	
a.	The Trailer shall be provided with 03 (three) Nos. of axles at rear of the Trailer as per design and meeting tender specifications. The Trailer axles shall be compatible with the brake system. The bidder/supplier shall offer Trailer axles with total axle capacity of the Trailer triaxle to meet the design requirement considering the total weight of the complete unit with equipment, handling fluids, etc. in all conditions: (a) With **1.5 inch Tubing configuration** and (b) With **1.75 inch Tubing configuration**. Bidder shall ensure that the loading on the Trailer axles shall be within the axle capacity of the Trailer triaxle in equipment with **1.5 inch Tubing configuration** & with **1.75 inch Tubing configuration** in all conditions.	
b.	The bidder shall mention & submit the following information in the technical bid for each CTU Trailer:	
(i)	Total number of Axles in the Trailer at rear.	
(ii)	Make & model of offered Trailer axles.	
(iii)	Total axle capacity of offered 03 Nos. of Trailer axles.	
(iv)	Estimated Total loading on Trailer triaxle **with 1.5 inch Tubing configuration**.	
(v)	Estimated Total loading on Trailer triaxle **with 1.75 inch Tubing configuration**.	
(vi)	Total Loading on Trailer triaxle is within the axle capacity of Trailer triaxle with **1.5 inch Tubing configuration &** with **1.75 inch Tubing configuration**. (Yes / No).	
(vii)	Technical specification catalogue/brochure with technical details of the offered Trailer axles.	
4.4	**BRAKE SYSTEM:**	
a.	Pneumatic service brake system with ABS (anti-lock brake system) and parking brake system compatible with the Tractor shall be provided in the Trailer. The service brake system & parking brake system shall be operated from Tractor's driver Cabin.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	The brake system shall also have provision for applying brake automatically to the Trailer axles in case of accidental disconnection of the pneumatic connections. The trailer shall have control valve for synchronized braking of "tractor and trailer" to enhance the safety. The brake system shall have palm coupling for quick coupling and detaching the air connections with the Tractor unit. All brake components shall be compatible with axles offered.	
4.5	**TRAILER SUSPENSION:**	
a.	Heavy duty Trailer suspension system suitable for movement of Tractor & CTU Trailer unit with full load in all types of road conditions typical to oilfield operation area/slushy plinths shall be provided. The Trailer suspension system shall be capable to bear the designed load in both **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** in all conditions.	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Type of offered Trailer Suspension.	
(ii)	Make & Model of offered Trailer Suspension.	
(iii)	Technical specification catalogue/ brochure with technical details of the offered Trailer suspension system.	
4.6	**TRAILER WHEELS & TYRES:**	
a.	The Trailer shall be fitted with suitable wheels with Tube type / Tubeless type Tyre of adequate ply rating. 02 (two) Nos. of wheels in each side of each axle i.e., total 04 (four) Nos. of wheels in each axle i.e., total 12 (twelve) Nos. of wheels in 03 Nos. of Trailer axles shall be provided as per design specifications. If possible, Trailer wheels / tyres shall be interchangeable with the Tractor unit. Bidder/prospective supplier is 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, if possible.	
b.	The bidder shall mention & submit the following information in the technical bid for each CTU Trailer:	
(i)	Total number of wheels in 03 Nos. of Trailer axles. (Axle-wise information to be provided).	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
(ii)	Type of Tyres (Tube type / Tubeless type) in the Trailer axles.	
(iii)	Tyre size of Trailer axle wheels.	
4.7	**KINGPIN FOR COUPLING WITH TRACTOR UNIT:**	
a.	Suitable rubbing plate fully welded to the chassis frame and the **Kingpin of size not less than 3.5 inch** shall be provided. The make of the Kingpin shall be of ASHLEY /HYWA / TATA / JOST / VOLVO / YORK / PLHT/ GF / SAF / HOLLAND or any other make. Height of rubbing plate shall match with the "Fifth Wheel" height in all load conditions for proper coupling and locking. Proper coupling & locking etc. of the CTU Trailer Unit with the Tractor unit is to be ensured by the bidder/prospective supplier.	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Size of offered Trailer Kingpin.	
(ii)	Make & model of offered Trailer Kingpin.	
(iii)	Technical specification catalogue/ brochure with technical details of offered Trailer Kingpin.	
4.8	**LANDING GEAR:**	
a.	Retractable, mechanical type landing gear with sand-pad and having adequate capacity for taking the load of the CTU Trailer when fully loaded (in both configurations, i.e., **1.5 inch Tubing configuration** and **1.75 inch Tubing configuration** as mentioned in the tender) shall be located conveniently at the front end of the Trailer. The make of the landing gear shall be of HYWA/ JOST / YORK / PLHT/ GF / SAF / HOLLAND or any other make with capacity as per design. The landing gear shall be so positioned that there is sufficient clearance behind the rear end of the Tractor unit, and it does not foul with the Tractor while taking the shortest turn.	
b.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Make & model of offered Landing Gear.	
(ii)	Capacity of offered Landing Gear.	
(iii)	Technical specification catalogue/ brochure of the offered Landing Gear.	
4.9	**ELECTRICAL EQUIPMENT:**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
a.	Electrical system compatible with the electrical system of the offered Tractor unit shall be provided in the Trailer for road drive. Easily disconnectable electrical connections with the Tractor unit shall be provided.	
4.10	**TRAILER DECK:**	
a.	All welded steel construction with not less than 5mm thick MS chequered plate Trailer deck shall be provided, wherever feasible as per design. Trailer decks shall be of non-slip type.	
4.11	**PAINTING:**	
a.	Surface preparation through shot blasting. Minimum two coats of Zinc rich metal primer shall be applied. Minimum two final coats of suitable paint shall be applied. Note: Surface primer, paints shall be suitable for corrosive handling fluids etc. used in oil & gas industry.	
4.12	**TYPE APPROVAL CERTIFICATE OF CTU TRAILER:**	
a.	Type Approval Certificate of vehicle is required for the following activities in India: i. Uploading the vehicle details in the relevant Government of India portal (VAHAN / Homologation/ Parivahan portal) for registration of vehicle as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules, 1989 of India which is mandatory for plying of the vehicle in roads in India. ii. Custom clearance of the vehicle as per import policy conditions/guidelines of India Chapter-87 of ITC (HS), 2022, Schedule 1- Import Policy, Section: XVII, in case of imported vehicle from other countries to India.	
b.	In case the offered Trailer is manufactured in India, the offered Trailer shall be compliant to Central Motor Vehicle Rules 1989 of India and its amendments. In case the offered Trailer is imported from other countries to India, the offered Trailer shall be compliant with the import policy of Government of India. The bidder/supplier shall have to submit the Type Approval Certificate of Trailer, as applicable, along with the supply. Submission of Type Approval Certificate of Trailer shall be as per Central Motor Vehicle Rules of India and/or as per the import policy of Government of India, as applicable, as on the date of supply.	
c.	The list of Type Approval Certificate issuing agencies are mentioned in Central Motor Vehicle Rules, 1989 of India & its amendments.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	In case of imported vehicle from other countries to India, at the time of Customs clearance, a Type Approval Certificate/COP, of an international accredited agency including a notarized English translation thereof shall be furnished. This Type Approval Certificate shall stipulate that vehicle to be imported complies with all the ECE Regulations. The list of international accredited agencies approved for issuance of Type Approval Certificate is available on DGFT website, under Policy Circular No. 12 (RE- 2013)/2009-2014 dated 15.01.2014 issued by Ministry of Commerce & Industry, Department of Commerce, Director General of Foreign Trade, New Delhi subjecting "Type Approval issuing agencies under Policy Condition number 7 and 9 of Chapter 87 of ITC (HS) 2012".	
d.	Bidder/supplier shall ensure adherence to any subsequent revisions to the above referred Policy Circulars that may be issued in future by DGFT. Bidder shall note that, they shall be conversant with the policy of Government of India and Oil India Limited (OIL) shall not be liable in this regard whatsoever.	
e.	Type approval certification of individual components shall not be considered as vehicle Type approval certificate.	
f.	Notwithstanding anything mentioned elsewhere in this document, submission of Type Approval Certificate/ Conformity of Production (CoP) shall be as per the guideline of Government of India as on the date of supply.	
5.0	**OTHER GENERAL POINTS:**	
5.1	**ACCESSORIES & OTHER FITTINGS:** The unit shall be driven on roads in India having traffic rules for Right Hand Drive vehicles only. Accordingly, each Tractor-Trailer unit shall be fitted with the following fittings and accessories for safe movement of the unit on road. All the lightings/controls etc. as mentioned below and as required for road drive are to be operated from the Driver's cabin of the Tractor through electrical/ pneumatic system of the Tractor unit only.	
a.	All standard accessories, fittings, lightings, safety features etc. as per the Tractor manufacturer.	
b.	Headlamps. **The photometry of the headlamps to suit "keep left" traffic.**	
c.	Stop Lamps.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
d.	Parking Lamps.	
e.	Fog Lamps.	
f.	Direction Indicator Lamps.	
g.	Hazard Warning Lamps.	
h.	Sufficient side marker lights, top marker lights, rear & side reflectors.	
i.	Driver Cabin Lights.	
j.	02 (Two) Nos. of adjustable search lights, mounted at top behind the Driver cabin of the Tractor unit are to be fitted in the unit(s) for illuminating the rear equipment.	
k.	Horn.	
l.	Rear-view mirrors at both sides.	
m.	Blind spot mirrors, if possible.	
n.	Windscreen Wipers.	
o.	Mudguard with mud flaps for all Tractor wheels & Trailer wheels.	
p.	An audible back-up alarm is to be provided to sound when the Tractor is put in reverse gear.	
q.	Well covered engine exhaust with thermal non-conducting material / heatshield (as per the Tractor manufacturer) shall be provided in the Tractor. Moreover, in case of vertical exhaust, the exhaust pipe shall be such that rainwater ingression shall not be possible.	
r.	Suitable Heavy duty attachment (hook/loop) shall be provided at the rear of the Trailer, capable of pulling / towing the unit from bogged down situation in slushy areas in oilfields shall be provided.	
s.	The Tractor engine exhaust shall be fitted with suitable Spark Arrestor. The Spark Arrestor may be additional attachment to be fitted with the exhaust or there shall be chassis in-built internal mechanism to prevent discharge of open flame and sparks in the exhaust. The bidder shall confirm in the technical bid whether the Spark Arrestor shall be additional attachment or chassis in-built internal mechanism. In case Spark Arrestor is not needed or not recommended as per the Tractor manufacturer as additional attachment, the	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	bidder shall submit supporting document(s) from the Tractor manufacturer or Tractor manufacturer's dealer along with the technical bid.	
t.	The Tractor unit shall be fitted with Speed Limiting Device (SLD) & its accessories. The maximum road speed of the Tractor unit with Speed Limiting Device shall preferably be **50 km/hour** without affecting the other performance parameters of the Tractor unit in any manner. The speed limitation function shall not actuate the Tractor's service braking system. The Speed Limiting Device shall be fail-safe. The set speed shall be indicated on a plate in a conspicuous position in the Driver's compartment of the Tractor. Necessary certification/ documentation from appropriate authority regarding the speed limitation function or the SLD is to be accompanied along with the supply.	
u.	The Tractor unit shall be fitted with Vehicle Tracking System (VTS) compatible for use in India. The successful bidder (supplier) may also fit the VTS (compatible for use in India) after arrival of the unit in India. Necessary certification/ documentation from appropriate authority regarding the Vehicle Tracking System (VTS) is to be accompanied along with the supply.	
v.	The Tractor unit shall preferably have Air Bags for Driver and the Co-driver.	
w.	Wherever feasible, Side / Lateral Underrun Protective Device (SUPD)s, Rear Underrun Protective Device (RUPD) shall be fitted in the unit. Note: 1. SUPD/ RUPD are structures that prevent smaller vehicles from getting underneath etc. during collision as per AIS 069, IS: 14812, IS: 14682 or similar standards. 2. The equipment manufacturer shall check the feasibility of providing the SUPDs, RUPDs during manufacturing and arrange to provide the same accordingly as per feasibility in the unit. SUPDs/ RUPDs provided by the equipment manufacturer shall be of detachable type and shall not be permanently fitted / welded to the Trailer chassis.	
x.	**TRAILER INFORMATION PLATE:** The Trailer shall be provided with a VIN plate fixed in a suitable place in the Trailer chassis (easily visible) containing, amongst others, the following information:	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	a) Trailer Serial Number / Trailer Chassis No. as per Trailer manufacturer. b) Year and Month of Manufacture of the Trailer. c) Pay Load Capacity of the Trailer. d) Name & Address of Trailer Manufacturer etc.	
y.	Retro reflective marking (3M make or any other make, 50 mm width) on the front, rear and both side of the Driver's cabin as per the colour code- Front: White, Rear: Red and Sides: Yellow as per AIS: 090 / applicable standard.	
z.	01 (one) number Fire Extinguisher inside Driver's Cabin of Tractor.	
aa.	01 (one) number First Aid Box inside Driver's Cabin of Tractor.	
ab.	Wheel Wrench & Handle. In case, the wheel nuts are of different sizes in Tractor & Trailer, then separate Wheel Wrench & Handle for each size of wheel nuts shall be supplied for each unit.	
ac.	04 (four) numbers of wheel chocks.	
ad.	02 (two) numbers minimum 30 MT capacity hydraulic jack with handle.	
ae.	02 (two) numbers of complete spare wheel assembly (even in case of identical Tractor wheel & Trailer wheel).	
af.	01 (one) number of tyre pressure gauge for tyre pressure measurement.	
ag.	01 (one) number of Heavy-duty Grease Gun.	
ah.	Any other standard items/accessories provided by the equipment manufacturer.	
5.2	**TOOL KIT FOR GENERAL MAINTENANCE OF TRACTOR - TRAILER UNIT:** A toolkit consisting of tools given below shall be supplied along with each unit at supplier's cost:	
a.	Set of Ring Spanners [Sizes(mm): 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32], at least 01 number of each size.	
b.	Set of Open-Ended Spanners [Sizes(mm): 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32], at least 01 number of each size.	
c.	6 inch Long Nose Plier – 01 number.	
d.	Screwdriver (Small, Medium, Long) – 03 numbers.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
e.	8 Inch Adjustable Wrench – 01 number.	
f.	Hammer with Handle – 01 number.	
g.	Chisel – 02 numbers.	
h.	Centre Punch – 01 number.	
i.	Drift Punch – 02 numbers.	
j.	File, Flat, Bastard Cut with Handle, 10 inch – 01 number.	
k.	File, Flat, Smooth Cut with Handle, 10 inch – 01 number.	
l.	Brass Punch – 01 number.	
m.	Oil Can – 01 number.	
n.	Allen key set (as applicable).	
o.	Toolbox / Tool bag for above tools (not mounted on the Tractor-Trailer) – Minimum 01 number or as required as per manufacturer's standard.	
	Note: The sizes of the above-mentioned tools may charge as per manufacturer's standard.	
5.3	**SPARES & SERVICE (For Tractor & Trailer of CTU):**	
(i)	The bidder shall submit a written undertaking (along with the technical bid) that they, themselves or through other sources, would be able to supply all the requisite spares (including bought out items, if any) & consumables and provide the maintenance services for their offered Tractor & Trailer of CTU in OIL operational area(s) in India for a minimum period of ten (10) years from the certified date of completion of successful field commissioning of the unit.	
(ii)	The cost of such spares, consumables & maintenance services which may be utilized by Oil India Limited in future shall be extra and **SHALL NOT BE** considered by the bidder in their quoted prices in this tender.	
(iii)	Spares, consumables (except diesel fuel) & maintenance services (if any) during commissioning shall be in the scope of the successful bidder (supplier). Notwithstanding anything mentioned in this clause, the bidder shall abide the Commissioning Clause mentioned elsewhere in the tender.	
(iv)	Spares & repair services during Warranty period & warranty extension period (if any) for the item(s) under Warranty claim (if	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	any) of the unit(s) shall be in the scope of the successful bidder (supplier). Notwithstanding anything mentioned in this clause, the bidder shall abide the Warranty Clause mentioned elsewhere in the tender.	
5.4	**TRANSPORT OF ITEM REQUIRED FOR ALTERNATE TUBING CONFIGURATION:**	
a.	The CTU equipment shall be mounted on the Trailer such that either **1.5 inch Tubing configuration** or **1.75 inch Tubing configuration** shall be fitted on the unit during road movement (i.e., mobilization and de-mobilization) of the unit from the equipment yard to the site, etc. As per job requirement, the item required for alternate tubing configuration, to be assembled on the CTU at site, shall be transported on separate transport vehicle (as specified in Tender **Clause No. 9.3 Tubing Reel Assembly**).	
b.	Notwithstanding anything else mentioned in this tender document, the Transport Dimensions & Transport Weight of the item required for alternate tubing configuration, to be assembled on the CTU at site, (as specified in Tender **Clause No. 9.3 Tubing Reel Assembly**) shall meet the following limits: 1. Length of item for transport: Within **7500 mm**. 2. Width of item for transport: Within **2600 mm**. 3. Height of item for transport: Within **3200 mm**. 4. Weight of item for transport: Within **25000 kg**.	
c.	Suitable lifting lug/eye shall be provided so that the item can be lifted/handled by using Crane, spreader bar & Rope Slings.	
d.	The bidder shall mention & submit the following information in the technical bid:	
(i)	Maximum Length of item for transport.	
(ii)	Maximum Width of item for transport.	
(iii)	Maximum Height of item for transport.	
(iv)	Estimated maximum Weight of item for transport.	
6.0	**SPECIAL NOTES:**	
a.	All lights shall be covered to the extent possible, with suitable guard to prevent damage. The guards shall have detachable provision.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
b.	The electrical connections, other than those comes along with the Tractor unit, shall be suitable to operate in oilfield areas. The lightings shall comply road vehicle lighting regulations. Screw-in bulbs shall not be used as far as possible. The electrical wirings shall be fixed and protected as to minimize accidental damage or undue wear. The wirings shall be insulated, and the electrical circuits shall be protected against overloading by fuses or automatic cut-outs. Adequate steps shall be taken to ensure electrical continuity and wherever necessary, components shall be bonded by copper straps. The junction boxes, if any, shall be sealed.	
c.	In case of procurement of multiple [i.e., more than 01 (one)] unit against this tender, all the Tractor-Trailer units offered by the bidder in the tender and to be supplied by a successful bidder (i.e., supplier) in future against this tender shall be identical and shall have same design in all respects.	
d.	In case the bidder offers more than one Tractor make & model in the technical bid, such bidder shall submit their technical specifications for each offered Tractor make & model unambiguously against the requirements of each clause of the tender document. Such bidder shall also to note that, the make & model, design etc. of all the Coiled Tubing Units to be supplied finally shall be same & identical in all respects in the event of order. The bidder to confirm the same in technical bid.	
e.	In case the bidder offers more than one Make & Model Tractor along with all technical / supporting documents required for evaluation purpose, the price offered in price bid must be firm and unique (same) for all the makes and models. Bidder must submit a single price without any condition which should be valid for all offered makes & models quoted by the bidder. The bidder shall ensure and confirm the same in technical bid. Offers with conditional / optional price shall be rejected at any point of time.	
f.	The supplier may, if required and at its sole discretion, engage a body builder to carry out the necessary body fabrication jobs, mounting of equipment etc. on the Trailer. However, the supplier shall solely be responsible for the execution of the entire project, including fabrication job, mounting of equipment etc. irrespective of whether they engage body builder or not.	
g.	No preference shall be provided during evaluation for vehicle(s) with higher specifications. All Make/ Model of vehicle(s) meeting tender specifications shall be treated as equal and at par.	
h.	The Tractor & CTU Trailer Unit shall be supplied together in unitized condition.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
7.0	**DECK ENGINE:**	
7.1	**DECK ENGINE:**	
a.	The deck engine shall be liquid cooled, turbo-charged diesel fuel (HSD) engine of make **Caterpillar/Cummins** developing Required power at rated RPM suitable to run the entire operation of the Coiled tubing unit smoothly along with all accessories.	
b.	The offered engine shall comply with BS-VI/EURO-VI/TIER IV Final/equivalent or higher emission standard as applicable in the 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.	
c.	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: i. Altitude – 150 meter above sea level (ASL) ii. Temperature range: 2 deg - 45 Deg C Max iii. Average Rainfall - 350cms iv. Relative humidity 95% at 35° C	
d.	The Engine exhaust is to be designed properly with manifold, suitable muffler, PESO approved 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. The Spark Arrestor may be additional attachment to be fitted with the exhaust or an internal mechanism that prevent discharge of open flame and sparks in the exhaust. In case of "internal mechanism", the bidder shall submit supporting document from the manufacturer.	
e.	Suitable arrangement for keeping engine starting battery under locking arrangement and with safety cover from rain.	
f.	The engine safety system should be equipped with the following: i. Emergency shut off. ii. 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. iii. 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.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
g.	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.	
h.	The deck engine shall 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.	
i.	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.	
j.	Bidder must forward following details of the CTU along with their offer. i. Detailed power calculation sheet for Deck engine ii. Maximum Power Generated by Deck Engine iii. Maximum Power requirement for CTU operation. iv. Maximum Power loss in each Hydraulic Circuits v. Maximum Power requirement of Auxiliary Equipment.	
k.	I. Engine Fault Diagnostic & Repair Tool (both Software and complete Hardware including laptop) shall be supplied along with the unit. II. The Bidder must confirm that at the time of Commissioning of the unit the **Engineer from OEM shall provide training to OIL** Personal on the Engine Fault Diagnostic & Repair Tool. Both Software and Hardware part must be covered on that training. III. The training module must cover the following: i. Classroom training on troubleshooting on Deck Engine using Engine Fault Diagnostic & Repair Tool. ii. Field training on troubleshooting on Deck Engine using Engine Fault Diagnostic & Repair Tool. IV. The software shall have a minimum 3 (Three) years license from the date of successful commissioning of the entire unit in Duliajan, Assam **Note: The above training shall be as per training clause no. 26.0**	
l.	Bidder must forward following details of the CTU along with their offer. i. Detailed power calculation sheet for Deck engine ii. Maximum Power Generated by Deck Engine	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	iii. Maximum Power Consumption in CTU unit. iv. Maximum Power consumption in each Hydraulic Circuits v. Maximum Power Consumption of Auxiliary Equipment	
m.	Engine, Transmission and Gear Box catalogue shall be submitted along with the offer.	
7.2	**TRANSMISSION:**	
	The hydraulic pumps shall 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.	
7.3	**FUEL TANK FOR DECK ENGINE:**	
a.	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.	
b.	Cleaning facility with suitable drain plug and locking arrangement 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.	
c.	A hydraulically operated pump with filtration system should be provided for filling of diesel tank into Deck Engine Tank from Barrel/drum.	
8.0	**CONTROL CABIN & CONTROL CONSOLE:**	
8.1	**CONTROL CABIN**	
a.	The unit shall 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.	Both sides access doors, requisite number windows and rain gutters and stainless-steel hardware. Both the access doors should have stoppers or an external latching mechanism to keep the door in open condition if required. Front window with removable and tinted safety glass protected, hinged, expanded metal guard, rain gutter and stainless-steel hardware and wind shield wiper, sliding type rear window with protective frames.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
c.	360° vision complete internal and external lighting systems. Facility to change the direction of the external lights (connected with the control console) from control console.	
d.	Foldable platform is to be provided on both side of the cabin door for safe entry to and exit from the cabin.	
e.	Access of the cabin shall be about 29.50" (0.75m) width with Tilting/Angular/Slanting Type ladder with flat steps to be provided with grab handles to ride on cabin foldable Platform.	
f.	Proper illumination shall be provided inside the cabin. All lights are to be wired to the deck.	
g.	Ergonomically designed captain chair shall be provided for operator/ Engineer comfort to have clear vision of the reel surface as well as counter. Cabin shall have suitable sitting arrange for at least three (03) person excluding the CTU operator/ Engineer.	
h.	The Cabin shall be air conditioned to maintain a comfortable temperature in the operator cabin. Additionally, two nos of DC fans to be powered by deck engine should be provided at suitable locations inside the cabin.	
i.	All access steps (operator's cabin/chassis) with grips / handles shall be located at the convenient location around the unit.	
j.	Cabin floor shall be integral part of the Cabin shell, to have a noise free environment inside the cabin during operation. Cabin of Fixed type floor shall not be acceptable.	
k.	Cabin shall be suitably noise sealed for a Noise free environment considering occupational health of the CTU operator.	
l.	Hydraulic hoses inside and outside of the cabin are to be connected through the floor/front of the cabin with suitable connector.	
m.	One PA system in control cabin to communicate with the ground staffs.	
n.	Suitable locking arrangement of Cabin doors shall be equipped.	
8.2	**CONTROL CONSOLE:**	
a.	Weight indicator Electronic/ hydraulically activated 2 (two) scale type (Metric & FPS).	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
b.	Engine throttle controls, tachometer, Lube oil pressure & temperature gauges and water temperature gauges of deck engine.	
c.	Tubing Injector hydraulic controls (Pulling & Snubbing) with pressure gauge.	
d.	Tubing reel hydraulic controls with Pressure gauge.	
e.	Tubing Injector Hydraulic chain tension and chain traction controls with pressure gauge.	
f.	Tubing Injector Chain oiler controls.	
g.	Well head pressure gauge.	
h.	Tubing/Circulation Pressure Gauge.	
i.	All hydraulic pressure control & relief valve, valves bank with mechanical actuation levers.	
j.	All hydraulic pressure & temperature gauges.	
k.	Light switches.	
l.	All other necessary gauges.	
m.	The control console shall be positioned in such a way that the wellhead and all the other working places are in sight.	
n.	Audio visual Safety alarms for safe operation and protection of main equipment of the unit.	
9.0	**COILED TUBING:**	
9.1	**COILED TUBING SPECIFICATION: 1.5" OD**	
	The bidder should supply suitable continuous tubing made out of high strength alloy steel of Standard CT 900 as per API 5ST Specification.	
a.	Outer Diameter : 1.5"	
b.	Wall Thickness : 0.109" Wall thickness	
c.	Length of the continuous pipe : 5500m/18040ft (approx)	
d.	Plain end weight : 1.621 lbs/ft	
e.	Pipe body yield load : 42,870 lb	
f.	Internal yield pressure : 12,480 Psi	

CLAUSE NO.	CLAUSE DESCRIPTION		BIDDER'S RESPONSE
g.	Hydrostatic test pressure	: 10,000 psi	
h.	Torsional yield strength	: 1340 ft-lbs	
i.	Minimum Yield Strength	: 90,000 psi	
j.	Minimum tensile strength	: 98,000 psi	
k.	Maximum hardness	: 22 HRC	
l.	Material	: As per API 5ST	
m.	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.		
9.2	**COILED TUBING SPECIFICATION: 1.75" OD**		
	The bidder shall supply suitable continuous tubing made out of high strength alloy steel of Standard CT 900 as per API 5ST Specification.		
a.	Outer Diameter	: 1.75"	
b.	Wall Thickness	: 0.109" Wall thickness	
c.	Length of the continuous pipe	: 4600m/15091ft (approx)	
d.	Plain end weight	: 1.912 lbs/ft	
e.	Pipe body yield load	: 50,570 lb	
f.	Internal yield pressure	: 10,700 Psi	
g.	Hydrostatic test pressure	: 8,600 psi	
h.	Torsional yield strength	: 1880 ft-lbs	
i.	Minimum Yield Strength	: 90,000 psi	
j.	Minimum tensile strength	: 98,000 psi	
k.	Maximum hardness	: HRC22	
l.	Material	: As per API 5ST	
m.	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.		
9.3	**TUBING REEL ASSEMBLY:**		

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
a.	The coiled tubing shall 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. Reel Assembly shall be an individual structure and required to be mounted directly on the Trailer and suitable for dismounting from the Trailer 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.	
b.	The spool shall be of Drop-In-Drum design or similar Technology to convert the reel from 1.5" CT to 1.75" CT or vice versa. The spool shall be able to store tubing when not attached to the drive stand of Tubing Reel Assembly and shall be able to be placed on the ground, with tubing installed, without damaging the flanges. The spool shall not require the assistance of a transport stand.	
c.	**Note to Clause 9.3 b:** Bidder to note that there shall be minimum assistance for interchanging the reels.	
d.	The Replacement CT Reel/ Tubing Reel Assembly shall be fitted with all internal plumbing to connect directly with Tubing Reel assembly Drive stand of CTU.	
e.	All accessories/changeover kit shall be provided along with a 1.75" CT as a replacement of 1.5" CT Reel fitted on Coiled Tubing Unit. The Replacement CT Reel/ Tubing Reel Assembly will be transported on low bed trailer and assembled on the CTU on field site	
f.	The capacity of the spool shall be 5500m (18,046 ft (approximately) of 1.5" OD CT, or 4600m (15,091 ft (approximately) of 1.75" OD CT. The spool shall be able to mount to and operate with the spooling reel identified in Paragraph 16.2.	
g.	**Note:** **The Manufacturer to consider above technology while designing the Tubing Reel Assembly.**	
h.	Reel has four turnbuckles for its fixation during transportation.	
i.	Reel has a lubrication device installed on the level wind head and lubrication tank for CT located on the trailer frame.	
9.4	**DRIVE OF TUBING REEL ASSEMBLY:**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
a.	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 ranging 1.5" to 1.75" OD.	
b.	Details of the offered roller chain and sprocket drive system including engineering assembly drawing to be furnished along with the offer.	
c.	**Note*:*** ***Directly Mounted Reel Motor and Planetary Gear Box Drive system on Reel Shaft is not acceptable***.	
9.5	**LEVEL WIND**:	
a.	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 lifting feature of being hydraulically raised to working position and contains a counterbalance valve to maintain the elevation of level wind.	
9.6	**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 Hydraulic disconnect/ Ball activated down-hole tool shall be equipped in suitable location in the Reel Plumbing of flow tree.	
a.	**Internal Plumbing Manifold:** Internal Pumping Manifold shall contain 2" FIG 1502 type fittings rated at 10,000 psi, suitable for sweet or sour (H2) service. A tee for ball launching and wire-line adaptation port for wireline shall be incorporated in the design. Further, two nos. of 10,000 psi WP Plug Valves, suitable for sweet or sour (H2S) service, should be included.	
b.	**External Plumbing Manifold:** External Pumping Manifold shall contain 2" nominal size integral figure 1502 type fittings rated at 10,000 psi, suitable for sweet or sour (H2S) service. Manifold to include two (2) inlets, each with a shutoff plug valve mounted between the inlet and the circulating swivel. A 4:1 De-booster is mounted in the internal plumbing manifold to monitor circulating pressure.	
9.7	**BRAKING SYSTEM (TUBING REEL ASSEMBLY):**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
a.	Integral fail-safe disc brake assembly with the drive motor shall be provided for automatic engagement with manual override feature so that the brake may be activated during emergencies.	
9.8	**MEASURING AND DISPLAY:**	
a.	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, there shall be provision for an electronic depth meter **as part of the data acquisition system** in the operator's cabin 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 enclosures. It shall be of oil, water & chemical resistant type and shall work with power input of 12/24 volt DC.	
(v)	In case Electronic Display is a part of Data Acquisition System, the location of the unit shall be considered precisely considering proper ergonomics of the operator.	
(vi)	Suitable provision for field calibration along with detailed instructions should be provided.	
9.9	**LIFT SYSTEM:**	
a.	Lift system spreader bar arrangement for lifting loaded **Drop-In-Drum/replaceable drum** assembly with coiled tubing **or entire tubing reel assembly including drive stand** shall be provided. Suitable spreader bar with the lifting tackles to be provided.	
10.0	**TUBING INJECTOR, BOP, STUFFING BOX 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. 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.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
10.1	**TUBING INJECTOR:**	
a.	Tubing Injector shall be for 1.5" OD tubing, Hydraulic motor driven of 80,000-lb continuous lifting capacity and 40,000-lb continuous snubbing capacity.	
b.	Maximum Injector Weight including Gooseneck/ Tubing Arch Guide of 72 inches: 4500 Kg.	
c.	Max speed: 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. Hydraulic Motor and Dual Planetary Gear Box shall be mounted in the opposite direction of the drive shaft.	
e.	Electronic/Hydraulic Load Cell assembly (0-80,000 lbs) of make Martin Decker/Wagner/Benchmark with dual scale Weight Indicator.	
f.	Dual planetary Gear transmission	
g.	The unit shall be equipped with Hydraulic system for tension adjustment of chain in the downward direction. Necessary accumulators are to be installed in the chain tensioning hydraulic circuit to ensure continuous hydraulic pressure during operation. Chain traction system shall be designed to provide optimum grip to the Coiled Tubing with Accumulator Back up system.	
h.	Tubing traction system shall incorporate minimum three (03) independent sets of two (02) rod type hydraulic cylinders. Tubing traction shall be applied to the chain system through a pair of single piece reversible type, hardened and properly ground steel skates. The skate system is designed for self-aligning/centering for providing uniform gripper force and tubing loading. The traction system shall be remotely controlled from the operator's console.	
i.	Chain loop tension shall be provided by down tensioning with hydraulic cylinders. The system is designed to include automatic minimum tension pressure which can be remotely controlled from the operator's console. **(Three Sprocket/ Horizontal chain Tensioning system is not acceptable)**	
j.	Modular brakes shall be mounted between the motors and gearboxes and are spring applied / pressure released. The brake control system shall have both automatic / manual set provision. Each drive shaft shall be properly balanced by placing/assembling the duel planetary gear box in the opposite side of drive motor & modular brake assembly on each drive shaft.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
k.	Goose neck Tubing Arch Guide / shall fold down roller type detachable,72" radius.	
l.	Catwalk on three sides of the injector (with detachable folding railing).	
m.	A fall protection device also to be mounted	
n.	Remote control injector chain lubricating system. Chain type shall be ANSI#180.	
o.	Pin on mount side loading stripper assembly	
p.	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 during operation without dismounting of Chain Assembly from Drive sprocket.	
q.	One set of 4 nos adjustable telescopic support legs minimum 20 ft long with screw, to support injector during operation. Another set of 4 nos of short support legs (of length approx. 5 feet) to facilitate maintenance work at base.	
r.	Arrangement for connecting safety belt and harness shall be provided, for safe working on the injector.	
s.	Quick disconnects of make Aeroquip /Parker /Gates/Eaton only.	
t.	All accessories/changeover kit required for the Injector and Gooseneck, measuring head assembly etc shall be provided so that the CTU can be operated either with 1.5" CT Reel or 1.75" CT reel.	
u.	The Bidder must submit Detailed Technical literature of the offered Injector and Manufacturer's Catalogue along with Engineering Drawings all components i.e. Chains & Mechanical Drive system, Traction & Tension system, Load cell and weight indicator system, Goose neck & Hydraulic circuit of the Injector for technical evaluation. The offer will not be acceptable without the above-mentioned technical documents/Drawings for the Injector.	
v.	**CAMERA FOR MONITORING UNSUPPORTED LENGTH OF CT BETWEEN STRIPPER & INJECTOR**	
10.2	**BOP:**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
a.	One (01) no. hydraulically operated QUAD BOP of make Bowen / Texas Oil Tool / Forum /Vanoil/Fidmash Parveen shall be supplied and shall be of the following specification mentioned below.	
b.	3.06" X 10,000 psi WP, 15,000 psi TP, H2S service (API 6A standard) & suitable for 1.5" OD Coiled Tubing with provision of changing to 1.25 or 1.75" Coiled Tubing having Quadra rams' provision for: i. Pipe ram ii. Slip ram iii. Shear ram iv. Blind ram	
c.	Quad BOP shall be dressed for 1.50" OD CT and One set of Conversion Kit for 1.75" CT shall be supplied to use with 1.75" CT.	
d.	**Connection:** 3.06" 10M BX-154 flanges up and down and shall incorporate 2.06" 10M BX-152 side outlet, with adapter to adapt a 2"x 15K PSI WP, H2S rated figure 1502 union half with a 1"x 2" 10K PSI WP, 15K PSI TP Plug valve.	
e.	A 4:1 Pressure De-Booster shall be provided to monitor the well head pressure.	
f.	BOP TOP Connection shall be CB-34 blanking plug with a lifting arrangement and test port shall be provided. The Quad BOP shall be mounted on a removable stand pinned to the trailer deck.	
g.	The Following adapter flanges to match with wellheads (X - Mass tree) with the BOP: **i.** 3.06" 10M BX-154 x 3.125" RX-31 (3000 psi) **ii.** 3.06" 10M BX-154 x 2.56" RX-27 (5000 psi) **iii.** 3.06" 10M BX-154 x 2.56" BX-153 (10000 psi) **iv.** 3.06" 10M BX-154 x 4.06" RX-39(5000 psi) **v.** 3.06" 10M BX-154 x 3.125", RX-35 (5000 psi) **vi.** 3.06" 10M BX-154 x 4.06", BX-155 (10000 psi)	
h.	A Hydraulically Operated Combi BOP shall be provided in addition to the Quad BOP.	
i.	Specification of Combi BOP	
j.	3.06" bore X 10,000 psi WP, 15,000 psi TP, H2S service (API 6A standard) & suitable for 1.5" OD Coiled Tubing with provision of changing to 1.25 or 1.75" Coiled Tubing having Combi rams' provision for: i. Pipe & Slip Ram	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	ii. Shear & Blind Ram	
k.	Connection: 3.06" 10M BX-154 flanges up and down and shall incorporate 2.06" 10M BX-152 side outlet, with adapter to adapt a 2"x 15K PSI WP, H2S rated figure 1502 union half with a 1"x 2" 10K PSI WP, 15K PSI TP Plug valve. CB-34 blanking plug with lifting arrangement and test port shall be provided.	
l.	All accessories/changeover kit required for the BOP shall be provided so that the CTU can be operated either with 1.5" CT Reel or 1.75" CT reel.	
10.3	**STUFFING BOX:**	
a.	Hydraulically actuated Side door stripper packer of make Texas Oil Tool / Forum / Parveen/Vanoil of the following specification 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 shall be via a pin on stripper adapter.	
b.	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. Lubrication port shall be provided at suitable location for lubricating during operation. Bottom connection shall be compatible to the supplied BOP/Combi BOP.	
c.	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 all connections shall be compatible to the above Main stuffing box(stripper) and bottom connection shall be compatible to the supplied BOP.	
d.	All accessories/changeover kit required for the Stuffing Box shall be provided so that the CTU can be operated either with 1.5" CT Reel or 1.75" CT reel.	
10.4	**HOSE REEL ASSEMBLY:**	
a.	The injector power hoses should be spooled on a suitable reel operated by hydraulic motor.	
b.	All control hoses from the BOP to the control Reel shall be spooled on a separate reel operated by hydraulic motor.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
c.	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).	
d.	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 premature wear.	
e.	End connectors of the hoses shall be distinctly marked with tags at both ends for easy identification.	
10.5	**OUTRIGGER SYSTEM:**	
a.	There shall be a suitable hydraulic outrigger system in Coiled Tubing Unit for stability of the unit during operations.	
11.0	**DATA ACQUISITION SYSTEM (DAS):**	
	DAS shall be designed for measurement, control, registration on electronic source, display and visualization of technological parameters during operation of coiled tubing unit. Control box containing fit-for-purpose hardware shall be housed in a NEMA 4X stainless steel enclosure.	
11.1	**DAS shall provide the following:**	
a.	Reading and transfer into digital code of data received from physical values transducers (pressure, temperature, weight etc.) and their calibration.	
b.	Reading of depth value with the help of increment counter and calculation of round-trip speed	
c.	Display of physical values (round-trip speed and depth – constantly, other data on request).	
d.	User configurable alarm when established limit values of measured parameters are reached.	
e.	Automatic switch off of injector drive when allowable loads are exceeded the set loads.	
f.	CT fatigue data acquisition.	
g.	Registration of parameters on inbuilt memory device.	
h.	Review and printing of saved data in the form of tables and charts through applied program on any available PC.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
i.	DAS shall allow data transfer via Wi-Fi and Ethernet etc.	
j.	Provision of UPS charged from deck engine electrical system, with suitable capacity to meet the power requirement of the complete system.	
k.	The necessary hardware / field instruments / necessary software/ interfacing modules for software run shall be in the scope of suppliers.	
l.	A touch screen HMI of minimum 14-inch is needed to always display real time data clearly and one additional Laptop with latest configurations to be provided to run/retrieve the data from acquisition program. The above HMI shall be installed inside the cabin in a weatherproof (IP 66 or above) enclosure.	
11.2	**DAS shall register the parameters but not limited to the following:**	
a.	Time	
b.	CT depth	
c.	Round-trip speed	
d.	Injector load (tubing weight) during pull out of the hole and run in hole	
e.	Pumping pressure (circulation pressure) of technological fluid	
f.	Wellhead pressure	
g.	Injector drive pressure	
h.	Injector blocks traction pressure (top, middle, bottom)	
i.	Injector chains tension pressure	
j.	Stripper pack pressure	
k.	BOP hydraulic line pressure	
l.	Reel drive pressure	
m.	Reel drive hydraulic motor pressure	
n.	Annular pressure	
o.	Current and total flow of fluid pumping unit	
p.	Current and total flow of nitrogen pump unit	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
q.	CT run (bar chart for CT sections 1 m long)	
r.	Equipment running hours	
s.	Deck Engine Running Hours	
11.3	**SOFTWARE:**	
	Fully compatible software for real-time monitoring of CT operation parameter shall be provided. Operates using MS Windows 10 or above. 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:	
a.	Data recorded in various optional format such as access, excel, word document etc	
b.	User customizable displays for easy visibility. Custom, onscreen strip charts	
c.	The DAS software shall have a minimum 3 (Three) years license from the date of successful commissioning of the entire unit in Duliajan, Assam	
d.	Provision for copying the data to removable storage device through USB connection or Equivalent.	
12.0	**HYDRAULIC TRANSMISSION & CONTROLS:**	
a.	All hydraulic pumps and motors shall be of hydraulic displacement control type (Electrical displacement control system is NOT acceptable).	
b.	All hydraulic direction control valve shall have mechanical actuation system. In case of Pilot operated direction control valve, pilot signal shall be either hydraulic or pneumatic.	
c.	Make of the hydraulic pump and motors shall be of Saur Danfoss /Sauer Bibus/ Sun Strand / Parker / Denison / Rexroth / Linde only.	
d.	Injector pump should necessarily be variable displacement type.	
e.	Functions of each pump (which pump provides flow to which circuit, and which end functions shall be clearly mentioned. Bidder shall provide a provisional Hydraulic diagram for each function.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
f.	Bidder shall provide information regarding total number of hydraulic pumps, motors, and cylinders.	
g.	Bidder to provide the Make, model, rating and type of each Pump, motor & cylinder.	
h.	Bidder to clearly mention the functions of each motor/cylinder.	
i.	Make of the hydraulic hose and end connection shall be of Parker/Gates/Eaton/Power Grip/Hansa-Flex only and having relevant SAE / DIN standard. The hydraulic hoses shall be distinctly marked with tags at both ends for easy identification.	
j.	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.	
k.	Hydraulic Fitting standard: JIC (Imperial) or ERMETO (Metric)	
Note:	**Use of fixed displacement hydraulic pumps should be restricted to the extent possible.**	
13.0	**POWER DRIVE SYSTEMS**:	
13.1	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.	
13.2	The following hydraulic components shall also be installed on the unit.	
a.	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: i. Baffle plate. ii. sight level glass in easily readable position. iii. temperature indicator (for in tank hydraulic oil temperature).	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	iv. breather cap. v. Return filters and suction strainers etc.	
b.	Hoses connected to the Hydraulic reservoir shall be distinctly marked with tags at both ends for easy identification.	
c.	The Hydraulic reservoir shall be equipped with a hand operated pump with filtration system for filling up hydraulic reservoir.	
d.	Necessary high pressure and return line filters for entire hydraulic system.	
e.	Hydraulic oil cooler.	
f.	Hydraulic oil cooler with Hydraulically driven cooling fan (electric driven fans are not acceptable).	
g.	Necessary hydraulic valves, gauges, hoses, and piping.	
14.0	**BACK UP SYSTEM:**	
a.	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.	
15.0	**ACCUMULATOR:**	
a.	A high-pressure accumulator system with a sufficient volume shall be supplied and installed to provide a constant back up hydraulic pressure priority circuit, BOP, Stuffing Box, and Injector chain traction & tension system. Proper design consideration regarding the accumulator Volume calculation shall be provided for Bid evaluation.	
16.0	**ADDITIONAL EQUIPMENT:**	
	The following additional items shall be supplied in along with the unit.	
16.1	**SPARE TUBING REEL**:	
	The bidder should supply **1.5" OD** continuous tubing made out of high strength alloy steel of Standard CT 900 as per API 5ST Specification.	
a.	Outer Diameter : 1.5"	
b.	Wall Thickness : 0.109" Wall thickness	
c.	Length of the continuous pipe : 5500m/18040 ft (approx.)	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
d.	Plain end weight : 1.621 lbs/ft	
e.	Pipe body yield load : 42,870 lb	
f.	Internal yield pressure : 12,480 Psi	
g.	Hydrostatic test pressure : 10,000 psi	
h.	Torsional yield strength : 1340 ft-lbs	
i.	Minimum Yield Strength : 90,000 psi	
j.	Minimum tensile strength : 98,000 psi	
k.	Maximum hardness : 22 HRC	
l.	Material : As per API 5ST	
m.	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:	**Note to clause 16.1**	
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.	
16.2	**YARD SPOOLER:**	
	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 reels i.e., Hub diameter of spare reel (6")	
16.3	**DOWNHOLE TOOLS:**	
	The downhole tools mentioned in the **TABLE:1** below shall be supplied along with the unit. The price of the tools shall be included in unit cost of the Coiled Tubing Unit.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
16.4	**LUBRICATOR ASSEMBLY:**	
	One set of Lubricator Assembly of the following specifications:	
a.	3 sections of 08 feet length each and 2 sections of 04 feet length each.	
b.	All connection shall be quick union (Bowen type) only.	
c.	Top connection adaptable with the Stuffing Box connection & Bottom connection adaptable to supplied BOP's top connection.	
d.	10000 psi working pressure.	
e.	Bottom section of Lubricator shall have a bleed port with 10K psi Bleed Valve.	
17.0	**ILLUMINATION:**	
a.	The unit should have an inbuilt electrical system to provide sufficient LED Light illumination to enable emergency operation during night hour operations. At least eight flood lights (2 at front, 2 nos. at rear, 2 nos. near Middle of the unit and 2 nos. for illumination on the injector during operation) shall be provided in the unit for all round illumination.	
b.	These lamps should have independent individual switches with the master switch located at the operation control panel. These lights should be mounted in such a way they can be rotated as per requirement.	
c.	The lights should be protected with an outer detachable cover to prevent them from physical damage.	
18.0	**UNITIZATION AND COMPLETION:**	
a.	Installation of all electrical systems. All wiring systems will be produced as moulded cables and recorded as system kits.	
b.	Installation of all pneumatic systems.	
c.	Installation of all hydraulic systems.	
d.	All operating oils, coolants, and other operating fluids except those required for road drive of the Tractor-Trailer CTU unit will be drained prior to shipment.	
e.	All fixtures to ship complete with the unit.	
f.	Steel toolbox with locking arrangement for keeping operation related tools & fittings.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
g.	All tanks (Fuel, Hydraulic oil, etc) shall be fitted with suitable filter and locking arrangement.	
h.	All labour to complete unit.	
i.	Noise level for the complete unit in running condition shall not cross **90 db**.	
j.	Workmanship should be of good quality and appearance. Following is a partial list of examples.	
j.1	Flame cut edges shall be ground smooth.	
j.2	Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth.	
j.3	Bolt holes shall be drilled (not torch cut).	
j.4	Welds shall be of good quality and of sufficient strength.	
j.5	Use self-locking nuts.	
j.6	All hoses will be well supported with support type clamps.	
j.7	All hose assemblies will have swivel ends.	
j.8	All hoses will be protected by well secured rubber sleeves to prevent rubbing by frame, etc tagged for easy identification.	
j.9	All reservoirs constructed of steel plate with level gauge, cleanouts, vent fill cap, etc.	
k.	Circuit protective device mechanism (Fuses) for local & remote-controlled panel. Resettable circuit breaker is also acceptable.	
l.	Access steps (Tilting/Angular/Slanting type) with grab handles should be located at convenient locations around the unit.	
m.	Access ladder for radiator fill, if required.	
n.	All hoses & wiring should be protected, easily accessible & symmetrically for easy identification & maintenance.	
o.	The complete testing of unit should be done at the manufacturer's factory & certificate should be produced.	
p.	Special instruments / attachments for setting user settable meter configuration parameters are to be provided.	
q.	All steel / misc. Fittings to complete the unit. High pr pipe / fitting, racks and toolboxes etc.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
r.	Fire extinguisher (ABC Type)	
s.	One set of tools for operations, routine maintenance of unit.	
t.	A rugged industrial laptop with the latest configurations, along with all necessary accessories, will be provided with the unit.	
t.1	Engine Diagnostic Tool	
t.2	Automatic Electronic Transmission Diagnostic Tool	
t.3	PLC/Microcontroller program (if system is PLC based)	
t.4	HMI configuration backup (if system is PLC based)	
t.5	PLC programming platform (if system is PLC based)	
u.	In case the control system of the unit is PLC/HMI based, then the followings shall be invariably provided in portable storage media:	
u.1	Original program (Ladder Logic/FBD) of PLC/Micro controller,	
u.2	Original HMI configuration backup	
u.3	Original PLC programming platform /OS	
19.0	**PAINTING:**	
	Unit to be sand blasted wherever required, one coat of primer followed by two coats of paint as specified below:	
a.	Frame, Pump, and Control console: RED-315	
b.	Rim and Cab Top: Gold-44753	
c.	Bumper: Gold & Red Stripes	
d.	OIL logo (to be provided at the time of unit manufacturing)	
e.	Special instruments / attachments for setting user settable meter configuration parameters are to be provided.	
20.0	**STANDARDS:**	
a.	ASME standards	
b.	The operations of this unit shall be covered under the	
	i. Government of India, Ministry of Labour,	
	ii. Directorate General of Mines Safety, Dhanbad, India.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
21.0	**TOOLS:**	
a.	C Wrench = 4 nos.	
b.	Grip vice= 2 nos Heavy duty	
c.	Grip vice= 2 nos light duty	
d.	Combination Wrench Metric: 3 Set	
e.	Combination Wrench British: 3 Set	
f.	Ball-Pein Hammer: 2 nos	
g.	Toolbox = 3 nos	
h.	Belt for unscrewing filters: 4 nos	
i.	One set of relevant tools for operation and maintenance of the unit for all equipment, pumps, associated hydraulic system etc. to be supplied with the unit.	
j.	Following standard tools and accessories to be supplied in a toolbox with locking arrangement of suitable size attached to the chassis:	
1.	Pipe Wrench (size 12", 18", 24"): 4 nos. (each)	
2.	Combination Spanners: 3 sets.	
3.	Combination Pliers: 2 nos.	
4.	Allen Key Set: 3 nos.	
5.	Screw Drivers (plain, Size 6" X 10"): 3 nos.	
6.	Screw Drivers (Philips Size 6" X 10"): 2 nos.	
7.	Fire Extinguisher (ABC type), capacity 20lbs each.	
8.	Special tools wrenches for Pump servicing.	
9.	Aluminum ladder (12 ft): 2 no (Heavy Duty)	
10.	Special tools required for hydraulic system: 1 set.	
11.	Instrumentation tools: 1 no. Digital Multimeter, 1 no. clamp meter, 1 screwdriver set (containing the following types of drive tip i.e Flat head, Philips, Torx, Hex, Tri wing etc.)	
22.0	**SPARES:**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
22.1	**COMMISSIONING SPARES** The Supplier has to supply all the spare parts free of cost, required for initial commissioning of the unit. All the consumables such as, lube oil, gear oil, hydraulic oil etc. except diesel fuel, required for commissioning should also be supplied.	
22.2	**OPERATIONAL CRITICAL SPARES:** Spares as given under **Table-2** in specified quantity shall be supplied along with each unit. Specific Description, quantity of each & every spares shall be indicated in the technical bid and Make, Part Nos. etc. shall be submitted along with the supply. Bidders shall include the price of these spares in the cost of the Coiled Tubing Unit in the priced bid format. The bidder shall confirm in the technical bid that all spares and given under **Table-2** will be supplied with the unit.	
a.	**AUTOMOBILE (Tractor and Trailer) SPARE PARTS LIST:** All spare parts for the **Automobile (Tractor and Trailer)** in specified quantity as mentioned in **Table-2 / Section (A)** shall be supplied along with the supply. Bidder / supplier to note that the spares mentioned in **Table-2 / Section (A)** to be supplied shall be additional to the items fitted in each unit. Specific description, Quantity etc. of each item shall clearly be indicated in the technical bid. Make, Part Nos. etc. of each item shall be submitted by the supplier along with the supply. In case any of the spares mentioned in **Table-2 / Section (A)** does not come as per bidder's design and the bidder has not quoted for such spares, the bidder shall clearly indicate the same. However, in case such spares are provided in the unit in future, the same shall be supplied by the bidder / supplier along with the supply without any extra cost to Oil India Limited (OIL).	
b.	**DECK ENGINE:** All spare parts for the **DECK ENGINE** in specified quantity as mentioned in **Table-2 / Section (B)** shall be supplied along with the supply. Bidder / supplier to note that the spares mentioned in **Table-2 / Section (B)** to be supplied shall be additional to the items fitted in each unit.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	In case any of the spares mentioned in **Table-2 / Section (B)** does not come as per bidder's design and the bidder has not quoted for such spares, the bidder shall clearly indicate the same. However, in case such spares are provided in the unit in future, the same shall be supplied by the bidder / supplier along with the supply without any extra cost to Oil India Limited (OIL).	
c.	**INSTRUMENTATION & CONTROL SYSTEM:** All spare parts for the **Instrumentation & Control System** in specified quantity as mentioned in **Table-2 / Section (C)** shall be supplied along with the supply. Bidder / supplier to note that the spares mentioned in **Table-2 / Section (C)** to be supplied shall be additional to the items fitted in each unit. In case any of the spares mentioned in **Table-2 / Section (C)** does not come as per bidder's design and the bidder has not quoted for such spares, the bidder shall clearly indicate the same. However, in case such spares are provided in the unit in future, the same shall be supplied by the bidder / supplier along with the supply without any extra cost to Oil India Limited (OIL).	
d.	**COILED TUBING UNIT:** All spare parts for the **Coiled Tubing Unit** in specified quantity as mentioned in **Table-2 / Section (D)** shall be supplied along with the supply. Bidder / supplier to note that the spares mentioned in **Table-2 / Section (D)** to be supplied shall be additional to the items fitted in each unit. In case any of the spares mentioned in **Table-2 / Section (D)** does not come as per bidder's design and the bidder has not quoted for such spares, the bidder shall clearly indicate the same. However, in case such spares are provided in the unit in future, the same shall be supplied by the bidder / supplier along with the supply without any extra cost to Oil India Limited (OIL).	
22.3	**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 [except Automobile portion (i.e., Tractor and Trailer)] complete with price of each item. Annual consumption of each spare should be furnished. The bidder should also provide detailed spare list of all the items including bought out items in the operation and maintenance	

<table>
<tr><th>CLAUSE NO.</th><th>CLAUSE DESCRIPTION</th><th>BIDDER'S RESPONSE</th></tr>
<tr><td></td><td>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 bidder is not required to provide Recommended Spares list related to Automobile portion (i.e., Tractor and Trailer).

THE PRICE QUOTED FOR RECOMMENDED SPARES WILL NOT BE TAKEN INTO ACCOUNT FOR BID EVALUATION.

The bidder has to submit a complete spare parts list for the whole unit subgrouping major component in the following format as shown with example:

<table>
<tr><td>Name of the component/Sub com.</td><td>Description of the item</td><td>Part no./ID no. of item</td><td>Frequency of replacement (in Hours / Day)</td><td>Make</td></tr>
<tr><td></td><td></td><td></td><td></td><td></td></tr>
</table>
</td><td></td></tr>
<tr><td>23.0</td><td>UNDERTAKING:</td><td></td></tr>
<tr><td></td><td>The bidders must 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 ten (10) years from the Certified date of completion of successful field commissioning of the unit.</td><td></td></tr>
<tr><td>24.0</td><td>TECHNICAL MANUALS, CATALOGUES AND CERTIFICATION FOR OPERATION AND MAINTENANCE OF THE UNIT:</td><td></td></tr>
<tr><td></td><td>The following Manuals & Catalogues (in English language) shall be supplied along with the unit for <u>each</u> unit. Manuals/ Part Catalogues provided shall be Custom Illustrated Manuals/Catalogues for the vehicle and equipment only, not a general Composite Manual/Catalogue.

The manuals supplied should be specific to the make / model of the equipment / part / components supplied in the units. In case a comprehensive OEM catalogue is supplied of the equipment / part / components, then the respective make / model of the equipment / part / components supplied in the units should be clearly marked / identified.

Bidder to confirm that the following will be provided along with supply:</td><td></td></tr>
<tr><td>1.</td><td>Preferably, 01 (One) set of Spare Parts Catalogue with Part Numbers and Workshop & Service Manual for all components/systems of Automobile (i.e., Tractor and Trailer) like Tractor Engine, Tractor Transmission, Tractor axles, Trailer Axles, Differentials, Drivelines, Brake System, ABS, Tractor</td><td></td></tr>
</table>

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	Suspension, Trailer Suspension, Steering, Electrical & Pneumatic Systems etc. All the manuals & catalogues shall contain only those components/systems that have been used in the unit i.e. the same must be CUSTOM ILLUSTRATED MANUALS/ CATALOGUES ONLY – not the generalized ones. The Spare Parts Catalogue with Part Numbers and Workshop & Service Manual shall be provided by the supplier in any one of the following forms: (a) Hard copy format (i.e. in printed form) OR (b) Soft copy format (i.e. in USB drive) In case, the supplier (i.e. successful bidder) cannot provide the above Spare Parts Catalogue with Part Numbers and Workshop & Service Manual along with the supply, the supplier (i.e. successful bidder) shall promptly provide Part Number and other details of Automobile (i.e., Tractor and Trailer) related spares on OIL's intent to procure the spares and the request for budgetary quotation (BQ) prior to placement of formal purchase order for the spares by OIL in future. The bidder shall confirm the compliance of same in the technical bid.	
2.	01 (One) set of Driver's manuals in English language for the Tractor, if provided by the Tractor manufacturer.	
3.	03 (Three) sets of Operational manuals of the unit with categorical steps to operate the unit by an operator along with the functionality for each control switches, etc. and the operating range of the control parameters to be provided.	
4.	Supplier to supply 03 (Three) Sets of OEM's operation, maintenance and overhauling manuals of supplied models of Deck Engine, Pumps and all other sub-assemblies and their corresponding Spare part catalogue.	
5.	03 (Three) sets of the following schematics, layout drawings not limited to i. Equipment layout ii. Process flow drawing iii. Electrical, pneumatic and hydraulic schematic for operator panel are to be provided. iv. Control Panel wiring diagram, Termination panel details, Panel BOM with name of OEM & their part numbers.	
6.	The layout diagram of each system must enlist the components in it along with technical detail (Nomenclature).	
7.	All the components should also have nameplate embossed indicating original equipment manufacturer of these components, Make / Model their Part No., Sl No. and possible details as per industry standards. Wherever the mounting of	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	the nameplate is not possible such detail must be made on layout sheet of the system in which the component is installed. This is not required for components pertaining to Automobile (i.e., Tractor and Trailer) portion.	
8.	The O&M manuals and the spare part lists (three sets) to be provided in hard copy as well as in a soft copy. This is not required for components pertaining to Automobile (i.e., Tractor and Trailer) portion.	
9.	Lubrication and Fluids: Lubrication fluids chart (permanent attached to Unit) should be provided listing fluids, lubricants and filter types which are required by the Equipment. Fluids should be identified by generic name (i.e., hydraulic oil) near the fill port for each fluid. The lettering should be in English, and colour should be black on a white or stainless-steel background. This is not required for fluids pertaining to Automobile (i.e., Tractor and Trailer) portion.	
10.	Control Panel drawings with complete/ comprehensive Bill of Materials (BOM) with name of OEM & their part numbers.	
11.	Instrumentation wiring diagrams with end-to-end termination details.	
12.	The necessary licensed software in original packages along with user software backups are also to be supplied.	
25.0	**INSPECTION CUM ACCEPTANCE**	
25.1	**THIRD PARTY INSPECTION:**	
a.	Supplier shall arrange for Third Party Inspection (TPI) of the unit through OIL's nominated Third-Party Inspection Agency at Bidder's/ Manufacturer's plant/premises as per approved QAP and conditions of the Purchase Order.	
b.	All cost towards the engagement of Third-Party Inspection agency shall be borne by supplier. Bidder shall quote/include the cost of Third-Party Inspection in their offer.	
c.	The Scope of Third-Party Inspection will include but not limited to the following: 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 components of equipment.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	v. Review of Test Document for equipment Installed on the unit. vi. Review of Documents under Clause No. 24. vii. Any other requirement of the inspection agency to satisfy of the equipment as per applicable standards.	
d.	**Note:** TPI certificates shall be submitted along with material supply.	
25.2	**PRE-SHIPMENT INSPECTION:**	
	Pre-shipment inspection shall be carried out by OIL at manufacturer's site/workshop after completion of Third-Party Inspection (TPI). The inspection team shall consist of representatives of the concerned departments of OIL. The following points shall be noted but not limited to regarding Pre-Shipment Inspection by OIL.	
a.	The inspection shall not relieve the supplier of their responsibility to ensure that the equipment supplied is free from all manufacturing and other defects and fully conform with the required specifications.	
b.	The period for the Inspection-cum-Acceptance shall be of one (01) week.	
c.	The supplier shall inform OIL at least three (03) months ahead of the inspection and OIL shall depute its Inspection Team within three (03) months of information from supplier. However, OIL shall witness such inspection at a mutually agreed date based on readiness of the Unit.	
d.	The supplier shall provide all necessary support, facilities and assistance to OIL's inspection team at no extra cost to OIL. However, all expenses related to travel, accommodation and other expenses of the OIL's inspection team will be borne by OIL.	
e.	**Scope of Inspection:** The inspection shall include, but not limited to: • Physical verification of all items, fittings, and accessories. • Review of TPI Reports. • Review of Documents mentioned under Clause No. 24. • Verification of Make & Model of the tractor unit, Type Approval Certificate, etc., as per the Tender/Purchase Order.	
f.	**Functional Testing:** Functional testing of equipment shall be conducted, including but not limited to: • Injector testing • BOP (Blowout Preventer) testing • Hydraulic system testing	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
g.	The supplier shall ensure that all points under Clause (e) and Clause (f) are complied with to the requirements of the Purchase Order (PO), which shall be a prerequisite for issuance of dispatch clearance.	
h.	The supplier shall arrange for driver, operator, weighing facility and any other infrastructure required for the inspection.	
i.	For operational or safety reasons, if any minor modifications suggested by the inspector, must be complied with by the supplier at no additional cost to OIL.	
j.	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.	
k.	The inspection report would be prepared at the end of the inspection and jointly signed by both the parties.	
l.	Supplier will affect dispatch of the unit only on receipt of OIL's dispatch advice.	
26.0	**TRAINING TO OIL PERSONNEL ON THE UNIT:**	
	The Manufacturer shall have to provide training to OIL personnel in two (02) phases as below:	
26.1	**Phase - I: After Completion of Inspection at Manufacturing Plant** After completion of pre-dispatch inspection by OIL's personnel at Manufacturing Plant, the supplier shall arrange comprehensive classroom training at their manufacturing plant/works for a period of minimum **01 (One) week after completion of Pre-Shipment Inspection of the Equipment (as per Clause 25.2)**. Training shall be imparted on Operation & Maintenance, Troubleshooting and Working Principle of following systems/items used in the unit, amongst other relevant subjects – a. Deck Engine and its Electronic Controller System. b. Transmission and their control systems. c. Tractor Engine, Tractor Transmission, Tractor Front & Rear Suspension, Trailer Suspension, Tractor Front & Rear Axles, Trailer Axles, Differentials, Brake, ABS, Steering, Electrical System, Pneumatic System etc. of the offered unit. d. Hydraulic system. e. Control Panel. f. CTU operation, maintenance & trouble shooting. g. DAS & Software.	
26.2	**Phase - II: During the time of Commissioning at Duliajan**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	The Supplier shall provide both classroom and hands-on training to OIL personnel during commissioning of the unit at Duliajan. The training shall cover practical operation, routine maintenance, and troubleshooting of the equipment under actual field conditions. During commissioning, the Supplier's Commissioning Engineer is required to successfully complete three (03) field jobs at OIL's designated locations/wells. The training shall be imparted concurrently during the execution of these field jobs, ensuring that OIL personnel gain exposure to real-time operational scenarios.	
26.3	Bidders should quote their training charges separately, with clear breakup for 1st & 2nd Phases for evaluation purposes.	
27.0	**COMMISSIONING:**	
	The Supplier shall successfully commission the unit upon its delivery at Duliajan. The Bidder shall confirm compliance with the following clauses pertaining to commissioning of the unit:	
a.	The successful bidder will be required to commission the unit at Duliajan, Assam, India.	
b.	The supplied unit shall be deemed commissioned only after the Supplier's Commissioning Engineer successfully completes three (03) field jobs at any of OIL's oil/gas wells within thirty (30) days of arrival, to the satisfaction of OIL.	
c.	The Supplier's commissioning engineer shall be available at Duliajan, Assam within thirty (30) days from the date of intimation given by OIL for commissioning the unit.	
d.	While quoting Commissioning charge, bidder should consider all expenses including to and fro fares, boarding/lodging, local transport, and other daily expenses during stay of their commissioning engineer accordingly. OIL may provide accommodation on Chargeable basis subject to availability.	
e.	The successful bidder will be required to commission the unit within thirty (30) days of the arrival of the Commissioning Engineer. However, if the same is delayed for reasons not attributed to the supplier and to the satisfaction of OIL, OIL may extend the commissioning period to a maximum of one hundred and twenty (120) days. The Bidder shall confirm and submit an undertaking that the unit will be fully commissioned within a period not exceeding one hundred and twenty (120) days from the date of commencement of the commissioning job.	
f.	The Commissioning Engineer shall ensure availability of all spares related to initial commissioning of the unit. In case use	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	of operation Critical Spares by the commissioning Engineer during Commissioning of the Equipment, the same shall be replenished by the supplier within 30 days.	
g.	Bidders should quote commissioning charges separately for evaluation purposes.	
28.0	**WARRANTY / GUARANTEE:**	
	Bidder to confirm compliance to the following:	
a.	The bidder shall offer a period of at least one (01) year warranty for the entire equipment supplied from the date of successful field commissioning of the entire equipment.	
b.	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.	
c.	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 three (03) weeks from the date of notification of such failure and warranty for such items shall be extended accordingly.	
29.0	**Document(s) to be submitted along with the supply of each unit for government Registration etc.:**	
	Following documents shall be submitted by the supplier along with the supply as mentioned hereunder:	
a.	Invoice(s) in the name of Oil India Limited, Duliajan, Assam-786602 in original. Notwithstanding any clause mentioned elsewhere in the NIT/tender, the Invoice for each of the complete unit shall be submitted in 03 (three) parts separately as under for registration purpose: (i) Invoice for the Tractor unit. (ii) Invoice for the CTU Trailer with all items, components, systems fitted permanently on the CTU Trailer unit. (iii) Invoice for items, spares, accessories etc. supplied separately along with the unit. **Note:** 1. Tractor Chassis Number, Tractor Engine Number shall be mentioned in invoice(s) against above Sl. No. (i). 2. Trailer Chassis Number shall be mentioned in invoice(s) against above Sl. No. (ii).	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
b.	Sale Certificate for Tractor (Form-21) and for Trailer of CTU (Form-21) in original. The documents shall be in the name of Oil India Limited, Duliajan, Assam-786602, sample format as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules, 1989 of India provided.	
c.	Road-Worthiness Certificate for Compliance to Emission and Noise Standards for Tractor unit (Form-22) & for Trailer of CTU [Form-22, Form-22A (Part I), Form-22A (Part II)] in original. The documents shall be in the name of Oil India Limited, Duliajan, Assam-786602, sample format as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules, 1989 of India provided.	
d.	Certificate of Origin of the Coiled Tubing Unit.	
e.	Pencil print of Vehicle Identification Number (VIN) i.e., Chassis Number of Tractor unit & Trailer of the CTU unit.	
f.	Certificate for the Tractor unit in original from Tractor manufacturer or from Tractor manufacturer's dealer. Amongst others, the certificate shall contain following information: (i) Make & Model of Tractor unit. (ii) Vehicle Identification Number (VIN) i.e., Chassis Number of the Tractor unit. (iii) Month & Year of Manufacture of the Tractor unit.	
g.	Certificate for the Trailer of CTU unit in original from Trailer manufacturer. Amongst others, the certificate shall contain following information: (i) Make & Model of Trailer. (ii) Vehicle Identification Number (VIN) i.e. Chassis Number of the Trailer. (iii) Month & Year of Manufacture of the Trailer.	
h.	Necessary certification/ documentation from appropriate authority regarding the speed limitation function or SLD (Speed Limiting Device) with speed limit.	
i.	Necessary certification/ documentation from appropriate authority regarding the Vehicle Tracking System (VTS)	
j.	Type Approval Certificate of Tractor as per Clause No. 3.16.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
k.	Type Approval Certificate of Trailer of CTU as per Clause No. 4.12.	
l.	Technical drawing of the complete unit (Tractor & CTU Trailer combination) indicating the Centre of Gravity, length, width, height, angle of approach, angle of departure, weight, etc.	
30.0	**VAHAN / HOMOLOGATION / PARIVAHAN PORTAL DATABASE:**	
	The bidder shall categorically confirm their compliance of the following clauses in the technical bid:	
30.1	**VAHAN / HOMOLOGATION / PARIVAHAN PORTAL DATABASE for Tractor unit:**	
A.	**In case all the following conditions are met:** **a. The successful bidder (supplier) is from outside India (AND)** **b. The Tractor unit is manufactured outside India.** The vehicle details of Tractor unit in relevant VAHAN / Homologation / Parivahan portal of Ministry of Road Transport & Highways (MoRTH), Government of India will be dealt as per the applicable guidelines of Ministry of Road Transport & Highways (MoRTH) / Director General of Foreign Trade, Government of India at the time of supply on submission of requisite documents by the successful bidder (supplier) as mentioned in the tender / order. Any vehicle information of Tractor unit required for the relevant VAHAN / Homologation / Parivahan portal shall be provided by the successful bidder (supplier).	
B.	**In all cases other than Clause 30.1 A. above for the Tractor unit:** The bidder (supplier) shall be responsible and ensure that the vehicle details of Tractor unit are available in the relevant VAHAN / Homologation / Parivahan portal of Ministry of Road Transport & Highways (MoRTH), Government of India in accordance with Motor Vehicle Act, 1988 & Central Motors Vehicles Rules, 1989 of India prior to delivery of the unit(s) to Oil India Limited.	
30.2	**VAHAN / HOMOLOGATION / PARIVAHAN PORTAL DATABASE for Trailer of the CTU unit:**	
A.	**In case all the following conditions are met:** **a. The successful bidder (supplier) is from outside India (AND)** **b. The Trailer is manufactured outside India (AND)** **c. The CTU Trailer unit is manufactured outside India.**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	The vehicle details of Trailer of the CTU unit in relevant VAHAN / Homologation / Parivahan portal of Ministry of Road Transport & Highways (MoRTH), Government of India will be dealt as per the applicable guidelines of Ministry of Road Transport & Highways (MoRTH) / Director General of Foreign Trade, Government of India at the time of supply on submission of requisite documents by the successful bidder (supplier) as mentioned in the tender / order. Any vehicle information of the Trailer of the CTU unit required for the relevant VAHAN / Homologation / Parivahan portal shall be provided by the successful bidder (supplier).	
B.	**In all cases other than Clause 30.2 A. above for the Trailer of the CTU unit:** The bidder (supplier) shall be responsible and ensure that the vehicle details of Trailer of the CTU unit are available in the relevant VAHAN / Homologation / Parivahan of Ministry of Road Transport & Highways (MoRTH), Government of India in accordance with Motor Vehicle Act, 1988 & Central Motors Vehicles Rules, 1989 of India prior to delivery of the unit(s) to Oil India Limited.	
30.3	**Note to Clause 30.1 & 30.2:** Bidder/supplier shall also ensure adherence to any subsequent revisions to the referred requirements that may be issued in future by Ministry of Road Transport & Highways (MoRTH), Government of India. Notwithstanding anything mentioned elsewhere in this document, uploading of vehicle details in relevant VAHAN / Homologation / Parivahan portal of Ministry of Road Transport & Highways (MoRTH), Government of India shall be as per the guideline of Government of India as on the date of supply.	
31.0	**TEMPORARY REGISTRATION:**	
31.1	**In case all the following conditions are met:** **a. The successful bidder (supplier) is from outside India (AND)** **b. The Tractor unit is manufactured outside India (AND)** **c. The Trailer is manufactured outside India (AND)** **d. The CTU Trailer unit is manufactured outside India.** The scope & cost of Temporary Registration, Motor Vehicle Insurance as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India, if applicable, shall be under the scope of Oil India Limited.	
31.2	**In all cases other than Clause 31.1 above:**	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	Temporary Registration, Motor Vehicle Insurance as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India, if applicable, for unit transportation/ manufacturing purpose/ delivery purpose etc. shall be under the scope of the successful bidder (supplier). The successful bidder (supplier) is to note that, in case Temporary Registration as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India is done in India, the Temporary Registration shall be done in the name of Oil India Limited, Duliajan, Assam- 786602 (India). The cost of Temporary Registration, Motor Vehicle Insurance shall be borne by the successful bidder (supplier).	
32.0	**PERMANENT REGISTRATION:** On receipt of the vehicle(s) and documents required for permanent registration, Oil India Limited (OIL) shall apply for permanent registration of the vehicle(s) at the office of the local Government District Transport Office (DTO) as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India. Cost of permanent registration shall be borne by Oil India Limited.	
33.0	**HIGH SECURITY REGISTRATION PLATE (HSRP):** On receipt of the government Registration Number, Oil India Limited (OIL) shall inform the Registration Number to the supplier (successful bidder). The supplier (successful bidder) shall supply the High Security Registration Plate (HSRP) through the Original Equipment Manufacturers of motor vehicle/ dealer/any one of the agencies authorised by the Government of India/Assam to issue the High Security Registration Plate (HSRP) enabling the DTO to issue permanent Registration Certificate for the vehicle(s) as required for road drive of the vehicle. The cost of High Security Registration Plate (HSRP) shall be borne by the supplier (successful bidder). Bidder/supplier shall also ensure adherence to any subsequent revisions to the referred requirements that may be issued in future by Ministry of Road Transport & Highways (MoRTH), Government of India.	
34.0	**DEVIATIONS FROM THE SPECIFICATIONS:** The bidder shall enclose comprehensive list of intended deviations from the technical specifications clearly highlighting the reasons thereof, if any, sufficiently prior to Bid closing date & time for Tender amendment, etc. But OIL reserves the right for acceptance or rejection of the deviation(s).	
35.0	**BID SUBMISSION & DOCUMENTATIONS:** Bidders should submit their bids in the above tabular form mentioning their offered specification, Make, Model, necessary data, submitted/not submitted/ complied/not complied etc. as	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
	applicable to all the NIT terms and conditions including submitting the documents, leaflets as specified. Other details, if any, the bidder may mention the same by adding additional row(s)/separate sheet as the case may be. Bidder's response to all NIT stipulations should clearly be defined maintaining the same sequence as in the NIT. Bidder shall furnish specific details / specifications of all major components, systems with Make & Model etc. Submission of technical leaflet/catalogue alone is not sufficient. General Response like- 'As per NIT Specifications / Technical Leaflet', 'Noted' etc. or in any similar fashion is not acceptable. Quoting only the NIT stipulation without any confirmation of acceptance of the same and/or without any confirmation of offering the same is also not acceptable.	
35.1	Following documents shall be submitted along with technical bid for evaluation –	
a.	Technical leaflets with detailed specifications, Make & Model of Tractor unit, Tractor engine, Tractor transmission, axle, suspension, steering, brake, different equipment of CTU etc. as per respective individual tender clauses.	
b.	GA (General Arrangement) drawing of offered complete unit (including Tractor & CTU Trailer combination i.e., Tractor & CTU Trailer coupled condition etc.) in the following configurations: 1. With **1.5 inch Tubing configuration** and 2. With **1.75 inch Tubing configuration.** The GA drawing shall have mention of major dimensions of the complete unit (like length, height, width, wheelbase, etc.); estimated loading on individual axles of Tractor (Front & Rear) and Trailer (Rear); show the position of all major components & their mounting.	
c.	Undertaking(s) for supply of spares and service as per clauses mentioned elsewhere in the tender document.	
d.	Specific description, quantity etc. of each and every spares (for bid evaluation) as detailed in the Operational Critical Spares List provided in para 22.2 above & Table-2 below.	
e.	List of Recommended Spares in para22.3 above.	
f.	Checklist as per enclosed format shall be furnished along with the bid.	
g.	Any other document as applicable against clauses of this tender document.	

CLAUSE NO.	CLAUSE DESCRIPTION	BIDDER'S RESPONSE
36.0	**DELIVERY PERIOD:**	
	In Case of Indian Bidder: Materials must be despatched within Fifteen (15) months from the date of placement of order by OIL. The date of clear Lorry Receipt (LR) or Consignment Note shall be considered as the date of delivery.	
	OR	
	In Case of Foreign Bidder: Materials must be delivered on FOB, Port of Shipment basis within twelve (12) months from the date of opening of Letter of Credit by OIL. The date of unambiguous Bill of Lading (B/L) shall be considered as the date of delivery.	
37.0	**PAYMENT TERMS:**	
	80% payment will be made against supply of materials and balance 20% after satisfactory commissioning at site along with the Commissioning charges after adjusting liquidated damages, if any. Payment towards training will be released after successful completion of training.	
38.0	**PENALTY DURING WARRANTY PERIOD:**	
	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 three (03) weeks from the date of notification of such failure and warranty for such items shall be extended accordingly. In case failure of any item is not rectified within 3 weeks of notification then penalty at the rate of 0.5% of PO value per week subject to a maximum of 5 % of PO value shall be levied and warranty for such items shall be extended accordingly. This penalty amount shall be recovered from Performance security amount submitted by the successful bidder.	

TABLE:1 DOWNHOLE TOOLS (Refer Clause No. 16.3)

Sl. No.	Description	Quantity	Bidder's Response
1	Tubing roll on connector: a) 1.75" OD x 0.109WT CT with connector Dia 1.687", End connection: 1 AMMT. b) 1.75" OD x 0.109WT CT with connector Dia 2.125", End connection: 1.5 AMMT c) 1.5" OD X 0.109 WT CT connector Dia 1.687" End connection: 1" AMMT & 2 nos of connector Dia 2.125" End connection: 1.5 AMMT d) 1.5" OD X 0.109 WT CT with connector Dia 2.125" End connection: 1.5 AMMT	**02 nos.** **02 nos.** **02 nos.** **02 nos.**	
2	a) Slip Type Tubing Connector, 2.125" OD, for 1.75" OD CT x 0.109 WT CT, 1.5" AMMT b) Slip Type Tubing connectors, 1.687" OD for 1.5" OD CT x 0.109 WT CT, 1" AMMT c) Slip Type Tubing Connector, 2.125" OD for 1.5" OD CT x 0.109 WT CT, 1.5" AMMT	**02 nos.** **02 nos.** **02 nos.**	
3	a) Dimple Connector (Slip cum Grub Screw type CT End Connector) with Dimple applicator, 2.125" OD for 1.75" OD CT x 0.109 WT CT, 1.5" AMMT. b) Dimple Connector (Slip cum Grub Screw type CT End connector) with Dimple applicator, 1.687" OD for 1.5" OD CT x 0.109 WT CT, 1" AMMT. c) Dimple Connector (Slip cum Grub Screw type CT End connector) with Dimple applicator, 2.125" OD for 1.5" OD CT x 0.109 WT CT, 1.5" AMMT	**02 nos.** **02 nos.** **02 nos.**	
4	a) Double Roll-on connector, 1.75" OD x 0.109" CT b) Double Roll-on connector, 1.5"x 0.109" CT	**04 nos.** **04 nos.**	
5	a) CT cutters & rollers with Replaceable Blades for 1.75" OD CT. b) CT cutters & rollers with Replaceable Blades for 1.5" OD CT.	**02 nos.** **02 nos.**	
6	a) Nozzles of various types, 1.687" OD, set comprising of a) Multiple port (5 port): 1(one) no. b) Mule Shoe: 1(one) no. c) Combination of up flow & down flow: 1(one) no. d) End connection: 1 AMMT Box	**02 nos.**	

Sl. No.	Description	Quantity	Bidder's Response
	b) Nozzles of various types, 2.125" OD, set comprising of a) Multiple port (5 port): 1(one) no. b) Mule Shoe: 1(one) no. c) Combination of up flow & down flow: 1(one) no. d) End connection: 1.5" AMMT Box	**02 nos.**	
7	a) MultiJet Nozzle (Variable jetting Insert), 1.75", End Connection 1" AMMT Box b) MultiJet Nozzle (Variable jetting Insert), 2.125", End Connection 1.5" AMMT Box	**02 nos.** **02 nos.**	
8	a) Slim hole motor (1.687" OD), Min flow/Max flow (approx.): 25GPM/45GPM, Full load Torque: 180 ft-lb, **Set comprising** of the following: a) slim hole motor (1 no). b) Tapered Mills of sizes 1.7/8", 2", 2.1/8", 2.3/6" & 2 ¼"), End connection:1AMMT: 1(one) of each size. c) Flat milling bits (sizes 1.7/8", 2", 2.1/8", 2.3/6" & 2 ¼"), End connection: 1 AMMT: 1(one) of each size b) Slim hole motor (2.125" OD), Min flow/Max flow (approx.): 25GPM/40-45GPM, Full load Torque: 240 ft-lb, **Set comprising** of the following: a) slim hole motor (1 no). b) Tapered Mills of sizes 2.1/8", 2.3/6" & 2 ¼", 2 ½",2 ¾",3" End connection:1.5" AMMT: 1(one) of each size. c) Flat milling bits sizes 2.1/8", 2.3/6" & 2 ¼", 2 ½", 2 ¾" 3", End connection: 1.5" AMMT: 1(one) of each size	**02 nos.** **02 nos.**	
9	a) Rotary wash tool, 1.687" OD, End Connection 1" AMMT b) Rotary Wash Tool 2.125" OD, End Connection 1.5" AMMT	**02 nos.** **02 nos.**	
10	a) 2.125" OD Check valve (Double flapper type) for 1.5" & 1.75" CT, End connection 1.5" AMMT box x Pin. b) 1.687" OD Check valve (Double flapper type) for 1.5" CT. End Connections: 1" AMMT Box x Pin	**02 nos.** **02 nos.**	
11	a) 1.75" Motor Head Assembly, 1" AMMT Box x Pin. Motor Head Assembly shall include a double flapper check valve, hydraulic disconnect, circulation sub and rupture disc in one assembly.	**01 no.**	

Sl. No.	Description	Quantity	Bidder's Response
	b) 2.125" Motor Head Assembly, 1.5" Box x Pin AMMT. Motor Head Assembly shall include a double flapper check valve, hydraulic disconnect, circulation sub and rupture disc in one assembly.	**01 no.**	
12	a) Roto hammer 1.675" OD, End connection 1" AMMT Box x Pin. b) Roto hammer 2.125" OD, End connection 1.5" AMMT Box x Pin	**01 no.** **01 no.**	
13	a) Intensifier 1.675" OD, End connection 1" AMMT Box x Pin. b) Intensifier 2.125" OD, End connection 1.5" AMMT Box x Pin	**01 no.** **01 no.**	
14	a) Crossover from 1" AMMT PIN to 1.5" AMMT PIN. b) Crossover from 1" AMMT PIN to 1.5" AMMT Box. c) Crossover from 1" AMMT BOX to 1.5" AMMT BOX. d) Crossover from 1" AMMT BOX to 1.5" AMMT PIN.	**03 nos.** **03 nos.** **03 nos.** **03 nos.**	
15	a) Crossover from 1" AMMT BOX to 1" AMMT BOX. b) Crossover from 1" AMMT PIN to 1" AMMT PIN. c) Crossover from 1" AMMT BOX to 1" AMMT PIN. d) Crossover from 1.5" AMMT BOX to 1.5" AMMT BOX. e) Crossover from 1.5" AMMT PIN to 1.5" AMMT PIN. f) Crossover from 1.5" AMMT BOX to 1.5" AMMT PIN.	**03 nos.** **03 nos.** **03 nos.** **03 nos.** **03 nos.** **03 nos.**	
NOTE	All tools shall be compatible with 1.5" & 1.75" Coiled tubing and CT end Connectors supplied.		

TABLE-2: OPERATIONAL CRITICAL SPARES (Refer Clause No. 22.2)

Table-2 / Section (A): AUTOMOBILE (Tractor and Trailer) SPARES PARTS LIST

Sl. No.	Item Description	Qty. for 01 No. unit (To be supplied along with the unit)
A	B	C
A.	**TRACTOR ENGINE:**	
1.	Fuel Filter	05 Nos.
2.	Engine Oil Filter	05 Nos.
3.	Air Filter Element	05 Nos.
4.	Fan Belt	04 Nos.
5.	Radiator Hose Set (Each set shall comprise of all upper & lower hoses)	02 Sets.
6.	Engine Mounting Set [Each set shall comprise of all the mountings (one each)]	01 Set.
7.	Radiator Assembly (Each Radiator Assembly shall consist of at least Top Tank, Radiator Core, Bottom Tank)	01 No.
8.	Water (Engine Coolant) Pump Assembly	01 No.
9.	Engine Oil Cooler Assembly	01 No.
B.	**TRACTOR ENGINE EXHUAST AFTERTREATMENT SYSTEM**	
1.	Diesel Exhaust Fluid (DEF) Filter	08 Nos.
2.	Diesel Particulate Filter	08 Nos.
3.	Nitrogen Oxide (NOx) Sensor	04 Nos.
C.	**TRACTOR TRANSMISSION:**	
C1.	**IN CASE OF AUTOMATIC TRANSMISSION:**	
1.	Transmission Filter (if any)	04 Nos.
2.	Transmission Mounting Set [Each set shall comprise of all the mountings (one each)]	01 Set.
3.	Gear Shifter Assembly (inside driver's Cabin)	01 No.
C2.	**IN CASE OF AUTOMATED TRANSMISSION:**	
1.	Transmission Filter (if any)	04 Nos.
2.	Transmission Mounting Set [Each set shall comprise of all the mountings (one each)]	01 Set.
3.	Gear Shifter Assembly (inside driver's Cabin)	01 No.
4.	Clutch Disc Assembly (if any)	01 No.
5.	Pressure Plate Assembly (if any)	01 No.
6.	Release Bearing (if any)	01 No.
7.	Release Bearing Fork (if any)	01 No.
D.	**TRACTOR FRONT AXLE:**	
1.	Wheel Stud with Nuts (Right Side) (Each set shall comprise of all the studs & nuts for one wheel)	01 Set.
2.	Wheel Stud with Nuts (Left Side)	01 Set.

Sl. No.	Item Description	Qty. for 01 No. unit (To be supplied along with the unit)
A	B	C
	(Each set shall comprise of all the studs & nuts for one wheel)	
3.	Wheel Hub Bearing (Right Side)	02 Nos.
4.	Wheel Hub Bearing (Left Side)	02 Nos.
5.	Wheel Hub Oil Seal (Right Side)	02 Nos.
6.	Wheel Hub Oil Seal (Left Side)	02 Nos.
7.	Wheel Rim (Right Side)	01 No.
8.	Wheel Rim (Left Side)	01 No.
9a.	In case of Tube type Tyres: Tyre with Tube	01 No.
9b.	In case of Tubeless type Tyres: Tubeless Tyre	01 No.
E.	**TRACTOR REAR AXLE:**	
1.	Wheel Stud with Nuts (Right Side) (Each set shall comprise of all the studs & nuts for one wheel)	01 Set.
2.	Wheel Stud with Nuts (Left Side) (Each set shall comprise of all the studs & nuts for one wheel)	01 Set.
3.	Axle Stud with Nuts (Right Side) (Each set shall comprise of all the studs & nuts for one wheel)	01 Set.
4.	Axle Stud with Nuts (Left Side) (Each set shall comprise of all the studs & nuts for one wheel)	01 Set.
5.	Wheel Hub Oil Seal (Right Side)	04 Nos.
6.	Wheel Hub Oil Seal (Left Side)	04 Nos.
7.	Wheel Hub Bearing (Right Side)	04 Nos.
8.	Wheel Hub Bearing (Left Side)	04 Nos.
9.	Wheel Rim (Right Side)	04 Nos.
10.	Wheel Rim (Left Side)	04 Nos.
11a.	In case of Tube type Tyres: Tyre with Tube	02 Nos.
11b.	In case of Tubeless type Tyres: Tubeless Tyre	02 Nos.
12.	Differential Oil Seal Set [Each Set shall comprise of all seals (one each) of different differentials]	02 Sets.
13.	Differential Filter (if any)	02 Nos.
F.	**TRAILER AXLE:**	
1.	Wheel Stud with Nuts (Right Side) (Each set shall comprise of all the studs & nuts for one wheel)	02 Sets.
2.	Wheel Stud with Nuts (Left Side) (Each set shall comprise of all the studs & nuts for one wheel)	02 Sets.
3.	Wheel Hub Bearing (Right Side)	06 Nos.
4.	Wheel Hub Bearing (Left Side)	06 Nos.

Sl. No.	Item Description	Qty. for 01 No. unit (To be supplied along with the unit)
A	**B**	**C**
5.	Wheel Rim (Right Side)	03 Nos.
6.	Wheel Rim (Left Side)	03 Nos.
7a.	In case of Tube type Tyres: Tyre with Tube	03 Nos.
7b.	In case of Tubeless type Tyres: Tubeless Tyre	03 Nos.
G.	**TRACTOR DRIVELINE (PROPELLER SHAFT):**	
1.	UJ Cross Assembly Set (Each set shall comprise all the different UJ crosses in complete required for the drivelines)	02 Sets.
2.	Centre Bearing with Rubber Cushion Assembly (if any)	01 No.
H.	**TRACTOR STEERING:**	
1.	Steering Oil Filter (if any)	02 Nos.
2.	Power Steering Hoses Set (Set shall comprise of all hoses used in steering system, one each)	01 Set.
3.	Steering Pump Assembly	01 No.
4.	Steering Gear Box Repair Kit (if any)	02 Sets.
I.	**BRAKE & PNEUMATICS:**	
1.	Foot Brake Valve- Assembly	01 No.
2.	Brake Servo Assembly - Tractor Front Wheel	04 Nos.
3.	Brake Servo Assembly - Tractor Rear Wheel	04 Nos.
4.	Brake Servo Assembly - Trailer Wheel	04 Nos.
5.	Air Dryer Assembly	02 Nos.
6.	Air Dryer Filter	08 Nos.
7.	Brake Shoe Assembly - Tractor Front Wheel	08 Nos.
8.	Brake Shoe Assembly - Tractor Rear Wheel	12 Nos.
9.	Brake Shoe Assembly - Trailer Wheel	16 Nos.
10.	Pneumatic Circuit System Protection Valve	02 Nos.
11.	Relay Valves Set (Set shall comprise of all the different relay valves fitted in the vehicle, one each)	01 Set.
12.	Quick Release Valves Set (Set shall comprise of all different quick release valves fitted in the vehicle, one each)	01 Set.
J.	**ELECTRICAL:**	
1.	Tractor Engine Self Starter Assembly	01 No.
2.	Alternator Assembly	01 No.
3.	Wiper Motor Assembly	01 No.
4.	Wiper Blade with Arm (Left)	01 Set.
5.	Wiper Blade with Arm (Right)	01 Set.
6.	Head Lamp Assembly (Left)	01 No.
7.	Head Lamp Assembly (Right)	01 No.
K.	**TRACTOR SUSPENSION:**	
1.	Leaf Spring Assembly (Front Suspension of Tractor) (Set shall comprise of all the different leaf springs forming the suspension)	01 Set.

Sl. No.	Item Description	Qty. for 01 No. unit (To be supplied along with the unit)
A	B	C
2.	Leaf Spring Assembly (Rear Suspension of Tractor) (If any, in case of Bogie Suspension) (Set shall comprise of all the different leaf springs forming the suspension)	02 Sets.
3.	Tractor Rear Air Suspension Bellow (If any, in case of Air Suspension)	08 Nos.
4.	Torque Rod Bushing	08 Nos.

Table-2 / Section (B): DECK ENGINE:

Sl. No.	Item Description	Qty.
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	03 Nos.
8	Fuel Injector set	01 Set
9	Fuel Pump Assembly	01 No.
10	Fuel Pump Repair Kit	01 Set
11	Lube oil pump and distribution system	01 Set
12	Air cleaners & Air dryer assembly	01 Set
13	Engine Electric Starter Assembly	01 No.
14	Battery Charging Alternator Assembly	01 No.

Table-2 / Section (C): INSTRUMENTATION & CONTROL SYSTEM:

Sl. No.	Item Description	Qty.
1.	Depth Encoder	1 Nos
2.	Depth Encoder Cable	1 Nos
3.	Pressure Gauges	1 Set
4.	Temperature Gauges	1 Set
5.	Solenoid Valves	1 Set
6.	Pressure Transducer/ Transmitter	2 Nos
7.	Toggle Switch	5 Nos
8.	All Pressure Sensors of DAS	1 Each Type

Table-2 / Section (D): COILED TUBING UNIT:

Sl. No.	Item Description	Qty.
1.	Hydraulic strainers and filters: (1 set shall comprise of all the filters/elements and strainers fitted in the hydraulic circuit of the unit).	5 set.
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 for Idler chain sprocket:	4 Nos.
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:	4 Set
12.	Injector Chain gripper block assembly: (total no of insert for the whole chain assemblies):	01 set
13.	Gripper block insert: (total no of G/block for the whole chain assemblies):	01 set
14.	Goose neck roller: (comprising of all types of rollers for each sizes fitted in the goose neck):	01 set
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.	Load Binder for Alloy Steel Link chain, Grade: 80, Size: 3/8 inch(10MM) (for guying injector):	8 nos
22	Load Binder for Alloy Steel Link chain, Grade: 80, Grade: 80 Size: 1/2"(13MM) (for guying injector):	8 nos
23.	Repair kit for all Hydraulic Pumps of the Unit containing all consumables such as Gasket, Seal & Packing etc.:	2 Set

Note:

1. All spares in specified quantity as indicated above shall be supplied along with the supply of the units.

2. Specific description, Quantity etc. of each item shall clearly be indicated in the technical bid. Make, Part Nos. etc. of each item shall be submitted by the supplier along with the supply.

3. Bidder shall also quote separately for any additional spares [except Automobile portion (i.e., Tractor and Trailer)] 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. However, these additional spares, as suggested by the bidder will not be considered for Bid Evaluation purpose.

The bidder is not required to quote for suggested additional spares for Automobile portion (i.e., Tractor and Trailer) for the purpose of this clause.

4. If any spares mentioned in above Tables is/are not required, the bidder must mention that the spares are not required for the unit.

5. In case the multiple quantity of an item named above is used in the Automobile portion (i.e., Tractor and Trailer) of the Coiled Tubing Unit and the specifications of such item does not match with each other, then the supplier shall supply such item in a mixed manner comprising all the variants used in the Automobile portion (i.e., Tractor and Trailer) of the Coiled Tubing Unit. The supplier shall first try to supply all the variants of such item preferably in equal/proportional quantity of each of the variant used in the Automobile portion (i.e., Tractor and Trailer) of the Coiled Tubing Unit as far as possible. However, the total quantity of such item to be supplied must not be less than the quantity mentioned in above.

6. In case the specifications of the item named above used in left & right side of the Axle System/Suspension System/Brake System of the Automobile portion (i.e., Tractor and Trailer) of the Coiled Tubing Unit does not match with each other of that particular system, the supplier shall first try to supply all the variants of such item preferably in equal/proportional quantity of each of the variant used in the Automobile portion (i.e., Tractor and Trailer) of the Coiled Tubing Unit as far as possible. However, the total quantity of such item to be supplied must not be less than the quantity mentioned in above.

A. REF. CLAUSE NO. 29.0 b.

SAMPLE COPY OF FORM- 21 (as referred above)

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

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

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

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

The details of the vehicle are given below:

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

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

*Strike out whichever is inapplicable.

B. REF. CLAUSE NO. 29.0 c.
SAMPLE COPY OF FORM- 22 (as referred above)

Following is a sample copy similar to **FORM 22** of Indian Motor Vehicle Act only. The certificate to be issued by supplier shall contain following minimum information. –

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

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

1. Model/Commercial Name of the vehicle: .....
2. Chassis Number: .....
   [Example: Vehicle Identification Number (VIN)]
3. Engine ~~or Motor~~ Number: .....
4. Applicable Emission Norms: .....
5. Emission, Sound Level for Horn and Pass by noise values of the above vehicle model, obtained during Type Approval Testing as per Central Motor Vehicles Rules, 1989 or ECE/EEC Regulations are given below:

i. Type Approval Certificate No.: .....
ii. Type of Fuel: .....
iii. Emission values for vehicle: .....

TABLE
Positive Ignition Engine or Compression Ignition Engine Vehicle

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Value (upto 3 Decimal places)
(1)	(2)	(3)	(4)
1.	Carbon Monoxide (CO)	mg/km or mg/kWh or g/kWh	
2.	Hydrocarbon (THC/HC)	mg/km or mg/kWh or g/kWh	
3.	Non-Methane Hydrocarbon (NMHC)	mg/km or mg/kWh or g/kWh	
4.	Oxides of Nitrogen (NOx)	mg/km or mg/kWh or g/kWh	
5a.	HC+NOx	mg/km or mg/kWh or g/kWh	
5b.	THC+NOx	mg/km or mg/kWh or g/kWh	
6.	Methane (CH4)	mg/kWh	
7.	Ammonia (NH3)	PPM	
8.	Mass of Particulate Matter (PM)	mg/km or mg/kWh or g/kWh	
9.	Number of Particles (PN)	Numbers/km or Numbers/kWh	

iv. Noise level (as applicable):

a. Horn (for all vehicles other than agricultural tractors and construction equipment vehicles) as installed on the vehicle: ..... dB (A); (upto 1 decimal place)

b. Pass by or Bystander's position: ..... dB(A)

~~c. Driver perceived or Operator's ear level (as applicable for agricultural tractors and construction equipment vehicles: ..... dB (A)~~

(Facsimile Signature of Manufacturer)

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

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

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

C. REF. CLAUSE NO. 29.0 c.
SAMPLE COPY OF FORM 22-A

Following is a sample copy of **FORM 22-A (Part – I) & FORM 22-A (Part – II) 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]
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 there under or international standard namely EEC / ECE Regulations, including the following mass emission norms:

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

(Signature of Chassis Manufacturer)

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

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

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

1. Brand name of the vehicle : .....
2. Chassis number : .....
3. Engine number/~~Motor number~~ : .....
~~(In case of battery operated vehicles)~~
~~4. Bus Body Builder Accreditation Certificate Number~~ : .....

(Signature of Body Builder)

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

****