



Bid Number/बोली क्रमांक (बिड संख्या)[:] GEM/2024/B/4534650 Dated/दिनांक : 25-01-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण		
Bid End Date/Time/बिड बंद होने की तारीख/समय	21-02-2024 13:00:00	
Bid Opening Date/Time/बिंड खुलने की तारीख/समय	21-02-2024 13:30:00 90 (Days)	
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)		
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Petroleum And Natural Gas	
Department Name/विभाग का नाम	Oil India Limited	
Organisation Name/संगठन का नाम	Oil India Limited	
Office Name/कार्यालय का नाम	Oil India Limited	
Total Quantity/कुल मात्रा	2	
ltem Category/मद केटेगरी	MOBILE STEAM GENERATOR (Q3)	
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No	
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No	
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria, Bidder Turnover, Certificate (Requested in ATC), OEM Authorization Certificate, Additional Doc 1 (Requested in ATC), Additional Doc 2 (Requested in ATC), Additional Doc 3 (Requested in ATC), Additional Doc 4 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer	
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No	
Type of Bid/बिंड का प्रकार	Two Packet Bid	
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	5 Days	
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	Yes	
Inspection to be carried out by Buyers own empanelled agency	Yes	

Bid Details/बिड विवरण	
Type Of Inspection	Pre Dispatch
Name of the Empanelled Inspection Agency/ Authority	Board of Officers
Payment Timelines	Payments shall be made to the Seller within 21 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Financial Document Required/वितीय दस्तावेज की आवश्यकता है।	Yes

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाईजरी बैंक	ICICI
EMD Amount/ईएमडी राशि	847068

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	ICICI
ePBG Percentage(%)/ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months)/ईपीबीजी की अपेक्षित अवधि (महीने).	27

- (a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने हैं। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।
- (b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी:

GM - Materials (HoD)

Materials Department, Oil India Limited, Duliajan, Dibrugarh, Assam, PIN -786602. (G C Sarma)

Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes

- 1. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.
- OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.
- 2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023 OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

3. Inspection of Stores by Nominated Inspection Authority / Agency of buyer or their authorized representatives

An independent third party Professional Inspection Body can help buyer in mitigating buyer's risk with pre-dispatch/post-dispatch inspection in order to ensure that equipment, components, solutions and documentation conform to contractual requirements. The buyer has a right to inspect goods in reasonable manner and within reasonable time at any reasonable place as indicated in contract. Inspection Fee/ Charges (as pre-greed between buyer and Inspection Agency) would be borne by the buyer as per their internal arrangement but may be recovered from the seller if the consignment failed to conform to contractual specification and got rejected by the Inspection Officer .If so requested and accepted by the seller , initially seller may pay for inspection charges as applicable and get the same reimbursed from buyer if consignment accepted by the Inspecting Officer . For reimbursement seller has to submit proof of payment to Inspection Agency.

Seller/OEM shall send a notice in writing / e-mail to the Inspecting officer / inspection agency specifying the place of inspection as per contract and the Inspecting officer shall on receipt of such notice notify to the seller the date and time when the stores would be inspected. The seller shall, at his own expenses, afford to the Inspecting officer, all reasonable facilities as may be necessary for satisfying himself that the stores are being and or have been manufactured in accordance with the technical particulars governing the supply. The decision of the purchaser representative /inspection authority regarding acceptance / rejection of consignment shall be final and binding on the seller.

The Seller shall provide, without any extra charge, all materials, tools, labour and assistance of every kind which

the Inspecting officer may demand of him for any test, and examination, other than special or independent test, which he shall require to be made on the seller's premises and the seller shall bear and pay all costs attendant thereon.

The seller shall also provide and deliver store / sample from consignment under inspection free of charge at any such place other than his premises as the Inspecting officer may specify for acceptance tests for which seller/OEM does not have the facilities or for special/ independent tests.

In the event of rejection of stores or any part thereof by the Inspecting officer basis testing outside owing to lack of test facility at sellers premises, the seller shall, on demand, pay to the buyer the costs incurred in the inspection and/or test. Cost of test shall be assessed at the rate charged by the Laboratory to private persons for similar work.

Inspector shall have the right to put all the stores or materials forming part of the same or any part thereof to such tests as he may like fit and proper as per QAP/governing specification. The seller shall not be entitled to object on any ground whatsoever to the method of testing adopted by the Inspecting officer.

Unless otherwise provided for in the contract, the quantity of the stores or materials expended in test will be borne by seller.

Inspecting officer is the Final Authority to Certify Performance / accept the consignment. The Inspecting officer's decision as regards the rejection shall be final and binding on the seller.

The seller shall if so required at his own expense shall mark or permit the Inspecting officer to mark all the approved stores with a recognised Government or purchaser's mark.

MOBILE STEAM GENERATOR (2 pieces)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification	<u>Download</u>
Document/क्रेता विशिष्टि दस्तावेज़	<u> </u>

Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	80%	
Min Cost Allocation for ICT as a % of product cost	4%	
Number of days allowed for ICT after site readiness communication to seller	21 Days/दिन	

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Krishna Mohan Kumar	786602,Oil India Limited, Duliajan, Assam	2	365

Buyer added Bid Specific Additional Scope of Work

S.No.क्र.सं	Document Title	Description	Applicable/रिवर्स प्रभार के अनुसार जीएसटी i.r.o. Items
1	Technical Specification & BRC <u>View</u>	Technical Specification & BRC	MOBILE STEAM GENERATOR(2)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. Generic

Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

3. Generic

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

4. Generic

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

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

5. Generic

Manufacturer Authorization: Wherever Authorised Distributors/service providers are submitting the

bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

6. Generic

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

7. Generic

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

Applicable Concessional rate of GST:

12 % Notification No.and date : 8/2022 - Integrated Tax (Rate) dated 13/07/2022

8. Generic

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

9. Generic

Whereever Essentiality Certificate is applicable (PEL/ML), successful bidder should provide Proforma Invoice for processeing for EC application and material should be dispatche after receiving of EC rom DGH. In view of the same, an ATC may be incorporated in GeM, viz, "BIDDER/OEM must provide Proforma Invoice for processeing for EC application within

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days from date of issue of GeM Contract and material should be dispatche after receiving of EC rom DGH."

10. Scope of Supply

Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

11. Purchase Preference (Centre)

Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 100% of total value.

12. Purchase Preference (Centre)

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

The bid clause regarding "Preference to Make In India products" stands modified in this bid and shall be governed by the PPLC Policy No. FP-20013/2/2017-FP-PNG dated 17.11.2020 issued by MoP&NG as

amended up to date. Accordingly, bidders with Local Content less than or equal to 20% will be treated as "Non Local Supplier". The prescribed LC shall be applicable on the date of Bid opening. Sanctions on the bidders for false / wrong declaration or not fulfilling the Local Content requirement shall be as per the PPLC policy. Further following additional provisions are added in the certification and verification of local content provision of the Preference to Make in India clause:

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

13. Certificates

The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.

14. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

1.0 ePBG Percentage (%) under "ePBG Detail" above in the tender to be read as 10% instead of 5%. Accordingly, the bidder/supplier has to submit Performance Security/ePBG/PBG of value 10% of the Total Purchase Order Value, in the event of an order.

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

- 1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
- 2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
- 3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
- 4. Creating BoQ bid for single item.
- 5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
- 6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
- 7. Floating / creation of work contracts as Custom Bids in Services.
- 8. Seeking sample with bid or approval of samples during bid evaluation process.
- 9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.

- 10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
- 11. Creating bid for items from irrelevant categories.
- 12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
- 13. Reference of conditions published on any external site or reference to external documents/clauses.
- 14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---



Conquering Newer Horizons

MATERIALS DEPARTMENT

P.O. Duliajan, Dist. Dibrugarh ASSAM, PIN – 786 602, INDIA TEL: (+91) 374 2808705

E-mail: bikramjit_singha@oilindia.in



<u>ANNEXURE – I</u>

TECHNICAL SPECIFICATION

DESIGN, MANUFACTURE, UNITIZATION, AND SUPPLY OF A NEW MODERN TRUCK MOUNTED HORIZONTAL MOBILE STEAM GENERATOR (MSG)

QUANTITY: TWO (02) NOS.

- **1.0** Design, Manufacture, unitization, and supply of a New Modern Truck Mounted Horizontal Mobile Steam Generator (MSG) unit as per following specifications:
- 2.0 SCOPE OF WORK:
- **2.1** To design and manufacture the Mobile Steam Generator.
- **2.2** To procure and supply truck chassis as per specification furnished in para 4.0 for mounting the Mobile Steam Generator Unit.
- **2.3** To unitize and install the steam generator unit on the truck chassis and to construct a weatherproof housing on the truck platform as detailed at para 5.0 below.
- **2.4** To submit documents as under:
 - (a) To furnish necessary certificate/documents from competent Government authority and obtain permission from IBR, Assam for operating the boiler in OIL's operational area.
 - (b) To provide documents as mentioned in Para 14.0 for registration of the complete unit in the name of M/s Oil India Limited, Duliajan.
- **2.5** To commission the unit at site operating at the rated capacity and desired conditions to OIL's satisfaction.
- **2.6** To furnish five (05) copies of detailed operating and servicing manuals for smooth operation and maintenance of the unit. (Additionally, one soft copy)
- **3.0** <u>TECHNICAL SPECIFICATIONS</u>: Detailed technical specifications of the Mobile Steam Generator are as under.
- **3.1 BOILER/STEAM GENERATOR:** The boiler shall have the following features.
- **3.1.1 Duty Conditions:** The boiler shall meet the following duty & working condition.

Steam output capacity : 1000 kg/hr dry & saturated Steam at 100 Deg. C.

Max. Working pressure : 42.2 Kg/sq.cm g (600 psig.) (Maximum)

Max. Steam temperature : 253 Deg. C.
Max. Time allowed to generate : Max 5 minutes.

Steam at the rated output & Pressure of 42.2 kg/sq.cm from cold start.

Design code: IBR 1950 with latest amendments/ASME.

- **3.1.2** Type: Fully automatic, Oil fired, once through, water tube, coil type, laterally wound, force circulation, forced draft, 3 pass design horizontal type.
- **3.1.3** <u>Design code of Pressure parts</u>: The pressure parts must be designed & made as per latest edition of ASME/IBR -1950 code.

3.1.4 <u>Coil Tube design</u>: The boiler shall have two concentric helical, closed pitch coils fabricated out of carbon steel, seamless tubes. The coils are to be connected to form continuous flow passage. This coil assembly is to be kept inside a shell assembly. The unit shall be horizontally mounted on a skid. Removable refractory cover mounted on the jacket shall cover the front of the unit. The pressure parts including inner and outer coils must be made out of seamless boiler quality alloy steel tube suitable for high temperature & pressure service.

The coil shall be technically wound with closed pitch except at the entrance of each pass. The winding shall be done in cold condition and the ovality of the tubes shall be within tolerable limits. The tubes shall be 100% radiographed at all circumferential welds before winding and the coils are fully stress relieved at elevated temperature as per IBR code requirement. The coil ends shall be flanged joined and independent of the feed water and main steam header. That is, replacement or maintenance of the tube bundle shall be independent of the headers.

3.1.5 Shell Design: The shell assembly comprises of a double shell arrangement containing the pressure parts as described above and to preheat the combustion air between the shells along with suitable radiator to reflect radiant heat to the convection zones. Necessary refractory work at the burner and far end shall be provided, using proper quality materials. The far end shell must be independent of the coil bundle. That is, the far end wall should be easily removable without disturbing the coil for maintenance.

The shell shall be provided with a peephole for visual inspection of fire.

- **3.1.6** Fuel: The fuel for generating steam should be high-speed diesel (HSD). The bidder shall indicate the gross calorific value of the fuel and fuel consumption per hour at rated output.
- **3.1.7** Feed water quality: The bidder shall specify the feed water quality for smooth and efficient operation of the unit.
- 3.1.8 Prime mover (Pilot engine) of Genset: The unit shall be equipped with an air cooled, vertical, naturally aspirated, inline diesel engine of suitable HP for continuous running (24 Hrs.) with an overload capacity of 10% for a period not exceeding one Hour in any 12 hours running when running at 1500 R.P.M. as per site conditions given below and shall conform to specifications IS:10000/BS:5514. The Governing is to be in accordance with Class A-2 specifications to IS: 10000/BS: 5514.

Maximum Temperature : 40° C
Minimum Temperature : 5° C
Maximum Relative Humidity at 35 ° C : 95%
Maximum Altitude above mean Sea Level : 150 M

HSD conforming to IS: 1593:1982 and having the following specifications:

Cetane number : 42.5

Gross calorific Value : 19480 BTU/CFT (10000 CAL/GM)

The engine should be of reputed manufacturer like KIRLOSKAR/RUSTON/CUMMINS/CATERPILLAR/ GREAVES, complete with, charging alternator, electrical self-starter with suitable maintenance free battery, drive pulley for power take off, air cleaner, fuel filter & speed regulator to run (a) air blower (b) fuel pump, (c) feed water pump and (d) Charging alternator of the Mobile Steam Generator. Belt guard shall be provided on all the V-belt assemblies. A suitably selected flexible coupling should be incorporated to transfer power from the engine to the Alternator.

Suitable PESO spark arrestor with silencer along with necessary piping covered with exhaust lagging shall be provided at the engine exhaust and the engine exhaust shall be provided outside the boiler hut and it shall be suitably insulated.

The engine shall have minimum 20% reserve HP. Power balance for the unit i.e., generation and consumption of power shall be clearly indicated in the bid. Alternative arrangement shall be provided for manual starting of the engine. The engine shall be firmly anchored to the skid, using vibration isolator of reputed make.

The minimum requirements for the engine shall be as below –

- (a) Suitable diesel engine of adequate power and conforming to
 - i. The emission limit of the Diesel engine of the generating set must comply with the latest CPCB IV+ norms or as notified by Govt. of India as per G.S.R. 436(E) sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government (Govt. of India) and subsequent notifications as applicable.
 - ii. The offered Engine of the DG set should have valid Conformity of Production Verification for Emission Compliance from Certification Agencies as per latest CPCB IV+ notification. A copy of the same has to be furnished along with the offer.
 - iii. The offered DG sets should be enclosed in Acoustic Enclosure mounted on to common base frame with provision of easy portability of the whole generating set. The maximum permissible sound pressure level for the diesel generator (DG) sets should be 75 dB(A) at 1 meter away from the enclosure surface and must conform to the latest CPCB norms.[As notified by Environment (Protection) second Amendment Rules vide GSR 371(E), dated 17th May 2002 at serial no.94 and its amendments vide GSR No 520(E) dated 1st July 2003; GSR 448(E), dated 12th July 2004; GSR 315(E) dated 16th May 2005; GSR 464(E) dated 7th August 2006; GSR 566(E) dated 29th August 2007 and GSR 752(E) dated 24th October 2008; G.S.R. 215 (E), dated 15th March, 2011 under the Environment (Protection) Act, 1986)]
 - iv. The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCB IV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer. [Certification agencies/Authorised agencies of certification are 1) ARAI, Pune, 2) Naval Science & Technology Laboratory, Visakhapatnam, 3). Fluid Control Research Institute, Palghat, 4) National Aerospace Laboratory, Bangalore, 5) International Centre for Automotive Technology, Manesar, Haryana, 6) National Test House (Northern Region), Ghaziabad, Uttar Pradesh].
- (b) The engine shall be complete with Digital/Manual Tachometer & Hour meter in addition to all standard Lube oil pressure gauges & meters, starting switch, ignition switch, ammeter, filters, spark arrestor etc. Emergency/Safety engine shutdown system in case of Low lubricating oil pressure &over speed should be provided. Anti-vibration mountings and Engine "Low Lube Oil Pressure" indication display red lamp should also be provided.
- (c) 12 V engine electric starter (Lucas or Delco Remy make) with heavy duty maintenance free battery enclosed in a safety enclosure, engine mounted Battery charging Alternator (Make: LUCAS TVS or equivalent reputed make) and Starting ring fitted to the Engine Flywheel should be provided.
- (d) The Fuel System should comprise of Mechanical Governor, Fuel Injectors, Fuel Pump, Fuel Filter Assembly, Fuel lines and Fuel Tank having storage capacity to meet the Fuel requirements of 12 hours of full load operations. The connection from the fuel tank to the pump to be made using appropriate flexible hose to avoid shaking and damage of the same instead of completely rigid connection.
- (e) The engine with all other accessories, tanks, etc. shall be installed on a suitable skid equipped with lifting lugs for lifting of the complete unit. The skid shall have provision to facilitate installation of the same on a truck platform.
- (f) **Lubricating System**: The Lubricating System should comprise of Gear driven lubricating Oil Pump, Lubricating Oil Filter with a replaceable Filter Element, Lubricating Oil Cooler, Lubricating Oil Pan, Oil level dipstick and Crankcase breather.
- (g) Engine to be supplied with standard painting and it should have SAE standard rotation.

NOTE: The bidder should submit the following information along with relevant performance rating curves and engine product catalogues.

-) Gross HP developed at rated RPM.
- ii) Deduction of blower fan, charging alternator and other ancillary equipment
- iii) Net HP developed at rated RPM.
- iv) Fuel consumption at rated power as 110%, 75%, and 50% of rated load.

In case of above system, the alternator, its control panel, lighting scheme, earthing scheme, electrical works & cabling etc. will be as per clause 3.1.9 – A/B/E/F/G below.

3.1.9 ELECTRICAL SYSTEM

All pumps & blower will be electrical motor driven. The details of electrical system & devices are as under:

A. ALTERNATOR:

Power for all electrical equipment inside the MSG unit shall be provided by an air-cooled diesel engine driven (as mentioned in 3.1.8 above) acoustically enclosed 3 – phase alternator. Air blower, fuel pump, feed water pump shall be driven by directly coupled electric motors. The alternator prime mover/engine shall have all the features of the engine stated above. The continuous alternator KVA output at 40 deg. C ambient shall be 20% more than the sum of starting KVA of the largest motor and the maximum total running KVA of other electrical equipment (except the largest motor). The engine shall be able to provide the required power during motor starting & running. The engine output rating shall be on continuous basis at 40 deg. C ambient and at rated alternator output KW. The engine & alternator rated output on continuous basis shall be at least 20% more than the continuous running electrical load. The bidder shall submit detail calculations for KVA rating of alternator & KW rating of the engine along with the bid.

Alternator shall conform to IS: 13364/IEC 60034.

The alternator shall meet the following technical specifications and conform to relevant BIS.

- 1. Rated voltage: 415V (+/-) 6% AC.
- 2. Rated frequency: 50 Hz (+/-) 3%, 1500 RPM
- 3. Phase system: 3 phase, 4 wires.
- 4. Power factor: 0.8 lagging.
- 5. Class of insulation for stator, rotor: F/H.
- 6. Phase sequence: UVW.
- 7. Rating: Continuous.
- 8. Connection: Star.
- 9. All windings should be made from electrolytic grade copper.
- 10. Alternator Internal protection (enclosure): IP 23
- 11. Alternator cable terminal box protection: IP 54.
- 12. Excitation system: Brushless Self excited & auto regulated.
- 13. The automatic voltage regulator shall ensure that voltage dip during starting of highest size motor with other electrical loads running at rated output shall not be more than 10% of the alternator rated voltage.
- 14. Mounting: Foot mounted.
- 15. Suitable cable termination box for four core, copper conductor, steel armoured PVC insulated cable connection.
- 16. Alternator is to be mounted on anti-vibration pads.
- 17. Alternator shall have two external grounding terminals.
- 18. The following information in respect of the alternator shall also be provided:
 - (i) Rated output.
 - (ii) Motor starting ability.
 - (iii) Voltage swing when rated load is suddenly switched on.
 - (iv) Overload capacity.
 - (v) Short circuit withstand capacity.
 - (vi) Automatic voltage regulation.
 - (vii) Unbalanced current withstand capacity.
 - (viii) efficiency of alternator at 25%, 50%, 75% & 100% load (0.8 PF).
- 19. Alternator make shall be Stamford/ Kirloskar/ NGEF/Crompton Greaves/Leroy Somer. Alternative make if offered will be subject to OIL's approval.
- 20. Alternator shall be guaranteed for a period of one year from the date commissioning of the unit.
- 21. The alternator along with the Prime mover shall be housed in an acoustic enclosure.

B. CONTROL PANEL:

Suitable Industrial type control panel shall be provided for the alternator. The panel shall comprise of the following:

- i) Four pole, 415V MCCB, minimum 25 kA breaking capacity, continuous current rating 25% higher than the genset full load current, adjustable (in both current and time) microprocessor-controlled overload, short circuit and ground fault release, with shunt trip coil, quantity 1 no. Make: Schneider (NSX series)/Legrand (DPX3 series)/Siemens (3VT series)/ABB (Tmax series)/L&T.
- ii) 1(One) No. 3 phase, 4 wires, Microprocessor based, Over and Under Voltage Monitoring Relay for the following protections for the alternator (Make: Schneider (Model RM3 TR114VS7)/ProkDvs (Model-LVM11-34-2CF)/ABB Ltd. or equivalent reputed brand)
 - 1) Over voltage 110 %
 - 2) Under voltage 85 % with 1- 10 seconds time setting
 - 3) Incorrect phase rotation
- iii) 1(One) No. Over and Under frequency monitoring relay from 40 to 60 HZ with accuracy 0.1%, suitable for 415V. Trip time 0-10Sec with LED indication, 2NO+ 2NC contact, Make: ProkDvs (Model –HILO-2C-F)/ Minilec (FCS D2) or equivalent reputed brand.
- iv) 1 (One) No. Digital Multifunction for display of V, I, KW, Frequency, KWH shall be provided in the panel. Current Transformer: Output 5 A or 1 A of reputed make at rated primary current. Burden 15 VA, Class-I; Quantity 3 nos; Make of meter: HPL-Socomec (Diris A40)/Schneider (EM 6400 series). Make of CT: Kappa/A.E./L&T or equivalent reputed brand.
- v) MCB ('C' curve) for protection of meters and earth leakage relay.
- vi) LED indication lamps for indication of incoming 3 phase power supply. Quantity 3 nos.
- vii) Other components like pushbuttons, as required.

SUB NOTES FOR PANEL:

- N.1 The generator control panel shall be industrial type, self-supporting, floor mounting, built with rigid framework of suitable size MS Angle/Channel, shall have sufficient strength with vibration dampers, dust & vermin proof made of 14SWG CRCA sheet steel, cubicle type conforming to IP54, having front and rear hinged doors with locking arrangement, danger plate fitted on both sides, lifting lugs on top, ventilation louvers with perforated sheet on both sides, detachable gland plates for easy & safe entry of cables, double earthing studs on two sides complete with suitably sized zinc plated &passivated double nuts and spring washers.
- N.2 Control panel shall be thoroughly cleaned before applying 2 coats of rust preventing primer followed by 3 coats of light grey paint as per BIS code.
- N.3 All control wiring shall be done with 1100V grade, single core 1.5 sq mm, ISI, FIA, TAC approved and marked, PVC insulated, flexible copper cable. CT and Ammeter wiring shall be done with 2.5 sq mm copper cable. CT wires shall be terminated with ring type lugs. All wires shall be numbered with ferrule for Identification. Make: Finolex/Havell's/equivalent reputed make.
- N.4 All power connections inside the panel shall be made with copper wire or copper straps of current rating as per MCCB rating. Generator output terminals shall be connected to the control panel input at heavy duty terminals with 1100V grade, heavy duty, ISI approved and marked, PVC insulated, flexible copper conductor cables in heavy duty metallic flexible conduit.
- N.5 The overall dimensions of the panel shall be sufficient for safe and comfortable working inside the panel. Panel shall conform to IS: 8623/equivalent IEC Standard.

C. **ELECTRIC MOTOR**:

Induction motors of suitable rating (with adequate reserve HP) & RPM shall be provided for running the air blower, fuel pump and feed water pump. The motors shall have the following minimum specification:

- a) Voltage: 415V (+/-) 6% AC.
- b) Rating: min. 10% Higher than the driven load.
- c) Frequency: 50 Hz (+/-) 3%
- d) Duty: S-1 (Continuous)
- e) Enclosure: Totally enclosed Fan cooled (TEFC)
- f) Class of insulation: F but limited to temperature rise of B class insulation.
- g) Degree of protection: IP: 55.
- h) Suitable cable termination box.
- i) 2 nos suitable earth terminals shall be provided.
- j) Standard: Motor should confirm to IS 12615: 2011 and IS 15999-2021 for performance.
- k) Motor shall be guaranteed for one year from date of commissioning of the unit.
- I) Make: Kirloskar/Crompton Greaves/Bharat Bijlee/ABB.

The motors shall be directly coupled through direct, flexible couplings & complete with coupling guards.

D. MOTOR CONTROL CENTER:

A suitable MCC panel shall be provided for starting of the air blower, fuel pump and feed water pump motors. As the MCC panel also will house the boiler controls (with sensitive PLCs and other instrumentation), sufficient and proper isolation/space shall be provided for instrumentation items and high voltage interference generating items like contactors/MCCBs etc. of motor starters.

The MCC panel shall have the minimum technical specification as under:

- (a) INCOMER: Qty. -1 no. It shall be supplied from the output of the generator control panel. It shall comprise the following:
 - (a1) MCCB, 4 pole, minimum 25 kA breaking capacity, continuous current rating as per design of control panel, adjustable (in both current and time) microprocessor-controlled overload, short circuit and ground fault release, with shunt trip coil, qty 1 no. Make: Schneider (NSX series)/Legrand (DPX3 series)/Siemens (3VT series)/ABB (Tmax series)/or equivalent reputed brand.
 - (a2) Earth leakage relay with core balance current transformer. Range 0.3 Amp to 3.0 Amp with adjustable time delay, indication LEDs, test and reset push button: Qty 1 no. ELR shall trip the MCCB in case of an earth leakage. Make: Schneider/Legrand/ABB/Siemens or equivalent reputed brand.
 - (a3) Analogue ammeter (with selector switch) with current transformer, 5 A or 1 A secondary at rated primary current. Burden 15 VA, Class-I; Qty 3 nos.; Make of meter: reputed. Make of CT: Kappa/A.E./L&T.
 - (a4) Analogue voltmeter with selector switch.
 - (a5) Control MCBs ('C' curve) for protection of meters as required.
- **BUSBAR:** A suitable length of 4 nos. (Three phases and one neutral) electrolyte grade high conductivity tinned copper busbar shall be provided. Continuous current rating of the busbar shall be two times the current rating of the panel incomer MCCB. Busbar insulation support material shall be non-hygroscopic SMC/GRP. Busbar shall be insulated with colour coded heat shrinkable PVC sleeves.
- (c) OUTGOING MOTOR & LIGHTING FEEDERS: Direct online (DOL) starters for motors up to 5 HP and star/delta starters for motors above 5 HP shall be provided along with one no. spare starter for highest sized motor.

Besides starters one no. lighting feeder (Fitted with MCB and switch) and one no. spare feeder (Fitted with 25-amp 4 pole MCCB) shall be provided. Starters shall have following components:

- (c1) Incomer MCCB, 3 pole, microprocessor-controlled overload and short circuit release; suitably rated MPCB may also be offered matching the motor HP/kW. Make: Schneider/Siemens/ABB/Legrand/or equivalent reputed brand.
- (c2) TP power contactor with auxiliary contacts. Make: Schneider/ABB/Siemens/ or equivalent reputed brand.
- (c3) Thermal overload relay within built single phasing preventer. Qty -1 No: Make: Same as contactor.
- (c4) Timer for star/delta starter, make: Schneider/ABB/Siemens or equivalent reputed brand.
- (c5) Start & Stop push button (if not controlled through PLC) Qty 1 set; Make: Siemens/L&T
- (c6) ON/OFF/Trip LED Indication: Qty 1 set; Make: Siemens/L&T.
- (c7) MCBs for control circuit

SUB-NOTE FOR MCC PANEL:

- N1. The MCC panel shall be industrial type, self-supporting, floor mounting, built with rigid framework of suitable size MS Angle/Channel of sufficient strength with vibration dampers, dust and vermin proof made of 14SWG CRCA sheet steel, cubicle type conforming to IP54, having front hinged doors with locking arrangement, danger plate fitted on both sides, lifting lugs on top, ventilation louvers with perforated sheet on both sides, detachable gland plates for easy & safe entry of cables, double earthing studs on two sides complete with suitably sized zinc plated & passivated double nuts and spring washers.
- N2. MCC shall be thoroughly cleaned before applying 2 coats of rust preventing primer followed by 3 coats of light grey paint as per IS code.
- N3. All control wiring shall be done with 1100V grade, single core 1.5 sq.mm, ISI, FIA, TAC approved and marked, PVC insulated, flexible copper cable, CT and ammeter wiring shall be done with 2.5 sq.mm copper cable. All wires shall be numbered with ferrule for identification. Make: Finolex/ Havell's.
- N4. All power connections inside the panel shall be made with copper wire or copper straps of current rating as per individual MCCB rating. Motors should be connected to the respective panel at heavy duty brought out terminals with 1100 V grade, Heavy duty, ISI approved and marked, PVC insulated, PVC sheathed, Galvanized steel armoured, stranded Copper conductor cables. Heavy duty single compression cable glands shall be used for all cable entries. Make of Cable: Finolex/Havell's/L&T/reputed N5. The overall dimensions of the panel shall be sufficient for safe and comfortable working inside the panel. Panel shall conform to IS: 8623/IEC equivalent.
 - It is to be noted that the MCC panel shall also house the PLC/SLC controls and instrumentation. Hence the section 3.5, MSG Control Panel and Instrumentation, shall also be referred while designing the MCC.
- E. <u>EARTHING DETAILS</u>: The entire earthing work shall conform to IS: 3043. Two nos 25x5 mm galvanized GI straps shall be mounted suitably inside the unit, which will act as parallel earth bus bars. Two nos. earth connections (either with suitable size GI straps or GI wire rope, suitably terminated with crimp type lug) from alternator, motors, control panel & MCC shall be connected to these straps so as to ensure two earth connections for each device. The generator neutral shall also be earthed to the earth straps with suitable sized insulated copper cables. Earthing scheme shall be as per IS: 3043.

F. <u>ELECTRICAL WORKS & CABLES</u>: Entire electrical installation work will be as per BIS/IEC, CEA Regulations & NEC codes. All items used shall conform to relevant IS. The layout plan & electrification work shall be planned considering safety of operating staff, equipment & maintenance aspect.

Bidder shall refer equivalent international standards for items where only Indian Standards (as per BIS-Bureau of Indian Standards) has been mentioned. All cables will be terminated through suitably sized Heavy duty single compression glands and connections will be made through properly rated terminal strips and tinned copper sockets crimped rigidly to the copper conductors.

G. ILLUMINATION AND LIGHTING DETAILS: Interior of the unit shall have sufficient illumination with minimum 3 nos. of industrial type, 240V, IP55 bulkhead/well glass fittings with LED lamps. These shall be wired with metallic conduit wiring/armoured cable wiring using stranded copper conductor cables approved by ISI. Make of light fittings: Philips/Bajaj/Crompton/GE.

MCB shall be used as switches for illumination system and shall be housed in metallic enclosure, properly earthed. One no Industrial type socket outlet of 10 amps with 10 amps MCB shall be provided inside the unit. Make: Schneider/Siemens/ABB/Legrand.

H. DOCUMENTS:

- i. Following documents are to be submitted along with the offer:
 - a. Confirmation/undertaking from the bidder that they comply with all the electrical specification of the tender.
 - b. Indicative Electrical layout and Power distribution schematics.
 - c. Confirmation/undertaking that all the Electrical motors shall be as per specification & ratings as per clause 3.1.9(C) and calculation sheet with respect to the driven load shall be submitted for OIL's approval after placement of order.
 - d. Confirmation/undertaking that the alternator shall be as per specification and rating as per clause 3.1.9(A) and calculation sheet of the alternator rating shall be submitted for OIL's approval after placement of order.
- ii. After placement of PO, successful bidder shall submit the following documents for OIL's approval before procurement/manufacturing/fabrications of the Electrical equipment.
 - a. Calculation sheet of the rating of each motor.
 - b. Calculation sheet of the alternator rating.
 - c. Detailed layout plan / general arrangement of all the Electrical equipment.
 - d. Electrical Single Line Diagram and Power Distribution Diagram.
 - e. Detailed Control Circuit Power circuit diagram of the Generator Control Panel, MCC panel & Lightning Distribution Board.
 - f. Datasheets of the alternator, electrical motors, cables and luminaries.
 - g. Bill of Materials of the Generator Control Panel, MCC panel and the Lightning Distribution
 - h. Factory test report of the all-electrical equipment.
 - i. Site Test report/commissioning test report of the all the electrical equipment.
- iii. Following documents are to be submitted along with the supply in hard copies and soft copies.
 - a. O&M manual of the Alternator, Generator control panel, MCC panel and the Electrical panels.
 - b. As built Control Circuit Power circuit diagram of the Generator Control Panel, MCC panel & Lightning Distribution Board.
 - c. As built Electrical Single Line Diagram and Power Distribution Diagram.
 - As built Bill of Materials of the Generator Control Panel, MCC panel and the Lightning Distribution Board.
 - e. List of spares for 2 years O&M.

3.1.10 FUEL BURNING COMBUSTION SYSTEM:

The fuel burning system of the boiler shall comprise of the following:

- (a) <u>BURNER</u>: The burner shall be pressure jet, direct electric spark ignition type using spark electrodes/plugs and high-tension power supply from inverter/magneto of a well proven design comprising of burner gun, electrode, air fuel mixing devices, ignition transformer and other accessories if any, all rated for continuous duty service. The burning system shall be adequate to produce heat required for generating steam at the desired rate within 3 to 5 minutes of cold start. Make Monarch/Invalco/Hauck/Manufacturing Company (ELSTER) etc. Manual describing combustion principle for steam generation is to be submitted.
- (b) <u>COMBUSTION AIR BLOWER</u>: Centrifugal type air blower of suitable capacity is to be driven directly either by the diesel engine through belt drive or by directly coupled electric motor complete with all the accessories for power transmission. It shall also be provided with an over pressure relief valve.
- (c) <u>FUEL PUMP</u>: Gear type fuel pump suitable for pumping HSD or any second-grade fuel oil, either mounted on the same shaft as that of the air blower driven by the diesel engine through belt drive or by directly coupled suitable electric motor. The fuel pump shall be complete with all accessories required for power transmission. It shall also be equipped with internal over pressure relief arrangement / automatic by-pass control valve. Make Sofag, Sun strand, Neel or equivalent reputed make. The position of the pump should be easily accessible for maintenance.
- (d) <u>DIESEL OIL TANK</u>: HSD tank of suitable capacity, based on the feed water tank capacity and fuel consumption rate, for continuous full load operating time made of MS sheet, complete with inlet and drain nozzles fitted with valves, graduated level gauge shall be firmly anchored to the skid to withstand severe wrenching and shocks. Necessary MS piping up to the diesel engine and boiler fuel pump should be provided.
- (e) MANUAL HSD FILLING PUMP: One (1) no. hand operated HSD filling pump (gear type) complete with suction and discharge flexible rubber hoses for filling HSD tank shall be mounted near the tank. While the length of the discharge hose shall be as per assembly requirement, the length of the suction hose shall not be less than 40 ft.
- **3.1.11** FEED WATER PUMP: Triplex reciprocating plunger type positive displacement pumps of suitable capacity of a reputed manufacturer like SPECK etc. to be driven either by the diesel engine through belt drive or by directly coupled suitable electric motor complete with all accessories for power transmission. The pump shall be complete with fluid over pressure relief valve, suction stabilizer and pulsation dampener. The bidder shall clearly specify volumetric capacity, pump HP and other technical details. Piping shall be provided for connecting the water pump to the coil inlet. A suitable strainer shall be provided at the suction of the pump to remove foreign materials. The position of the pump should be easily accessible for maintenance.
- **3.1.12** FEED WATER TANK: Tank/s made of MS sheets (Plate thickness min. 5 mm) with suitable anti-corrosive paint of capacity not less than 6000 litre, fitted with inlet, outlet, drain and vent nozzles (in each tank) fitted with valves, level indicator/gauges shall be provided. The tank shall be properly designed to reduce water surging on turns and withstand violent wrenching and shocks. It shall be firmly anchored to a skid mounted above the chassis as shown in the attached layout diagram. The tanks shall be easily detachable from main unit for cleaning and maintenance without dismantling other units. If the tanks are made in several sections, then each section shall have isolating valve and individual tank drainage facility. Suitable air vent nozzle shall be provided in each tank to eliminate air pockets while filling up. Proper care shall be taken that the tanks are suitably connected to the feed water pump and there is no starvation of water to the pumps. Suitable provision shall be made to reduce metal to metal friction for longevity of the tanks.
- **3.1.13 STEAM HEADER:** The steam header for mounting safety relief valves, steam pressure indicator, high steam pressure switch, coil blow down valves including steam stop, auxiliary and check valves. The steam header shall have flanged ends for mounting all the valves. It should be placed at the Right-hand side of the Unit.
- **3.1.14 DUCTING**: Ducting shall be provided for the flue gases from outlet of the boiler complete with a rain head outside the boiler housing.

- **3.2 PIPING:** Piping to connect water pump, boiler as well as steam outlet shall be of boiler quality duly certified by the competent authority. Suitable insulation shall be done up to the rear of the boiler housing. Drain piping for fuel, feed water and steam coil shall be suitably provided.
- **3.3 STEAM HOSE/PIPE:** 25mm (1") NB 12-meter-long flexible metal braided high pressure hose (Four nos.) of steam working pressure of 70 kg/sq.cm (1000 Psig) at 100 Deg C. complete with quick release coupling at each end shall be provided.
 - **OR** <u>Alternatively</u>: Two sets of 25mm (1") NB pipes of 70 kg/sq.cm (1000 Psig) working pressure duly insulated with quick release couplings at each end shall be provided. The far end of the pipe shall be 12 m away from the steam outlet of the boiler along the ground. Accordingly, necessary elbows/bends and short joints with quick release couplings shall be provided. Additionally, provision should be made to keep at least 4 Nos. of steam hose suitable coiled adjacent to the boiler housing.
- **3.4 VALVES:** The boiler shall be equipped with 2 nos each of coil blow down valves (at suitable position for easy operation), safety relief valves, steam stop valves (suitably covered for safe operation) and feedback (non-return) valves for coil blow down, over pressure release, steam shut off and preventing reverse flow respectively. These valves are minimum requirement for the unit.

All the valves shall be IBR quality flanged type valves. The bidder has to provide necessary document in support of this along with the quotation.

3.5 MSG CONTROL PANEL AND INSTRUMENTATION:

A. Control panel shall be designed based on microprocessor-based state of the art technology Programmable Logic Controller (PLC)/Sequence Logic Controller (SLC) system suitable for Mobile Steam Generation (MSG) operation and control. The fault functions shall be both visually and audibly indicated on the unit's control panel and shall remain 'ON' until manually reset. It will have sequence starting system to ensure that all functions associated with starting operation are performed in correct sequence. The initiation shall be by means of a switch of push type, on the unit control panel. Provision shall also be incorporated for emergency shutdown of the MSG unit. The MSG units shall be provided with automatic safety shutdown devices and annunciation system with fuel cut-off. The PLC shall have RAM of minimum 1 MB.

SHUTDOWN DEVICES WITH AUDIO-VISUAL ALARM FOR THE FOLLOWING CONDITIONS SHOULD BE OFFERED:

- (i) Flame failure.
- (ii) Steam pressure high.
- (iii) Steam temperature high.
- (iv) Low feed water pressure.
- (v) Low fuel oil pressure.
- (vi) Blow down valve open.
- (vii) Low air pressure.

SEQUENCE AND CONTROL FOR THE FOLLOWING CONDITIONS SHOULD BE OFFERED:

- (i) Primary safety checks.
- (ii) Start of blower fan and fuel pump.
- (iii) Secondary safety checks.
- (iv) Start ignition and fuel supply.
- (v) Prove pilot flame establishment.
- (vi) Continue operation till high steam pressure reached.
- (vii) On-off operation set pressure failure.
- (viii) Safety lock out for flame, or any other safety shutdown condition as mentioned above.
- **B.** Field and panel mounted indicating instruments shall also be available to monitor various process parameters.

Panel mounted indicating meter:

- (i) Steam temperature. (Analog type input, preferably 4-20 ma)
- (ii) Steam flowmeter with data logging facility. (Analog type input, preferably 4-20 ma). Necessary meter run for the flowmeter will be in bidder's scope. The flowmeter shall be preferably of M/s Emerson, M/s Cameron, M/s ABB, M/s Krohne or M/s Yokogawa.

Panel mounted indicating lamp & switches:

Indicating lamp:

- i. 230 V AC ON.
- ii. Safety Lockout Internal.
- iii. Start.
- Flame ON. iv.
- Water pump ON. ٧.
- vi. Water pump OFF.
- vii. Water pump Trip.
- Fuel Pump ON. viii.
- ix. Fuel pump OFF.
- х. Fuel pump trip.
- Air blower ON. xi.
- xii. Air blower OFF.
- xiii. Air blower trip.
- xiv. Steam Temperature high.
- Steam pressure high. XV.
- xvi. Low steam pressure.
- xvii. Low air pressure.
- xviii. Low fuel pressure.
- Low fuel oil level. xix.
- XX. Low feed water level.
- Blow down valve open status. xxi.

Switches (Push Buttons):

- i. Start push button.
- ii. Stop push button.
- iii. Alarm Test push button.
- Alarms accept PB. iv.
- ٧. Alarm reset PB.
- Start PB for water pump. vi.
- vii. Stop PB for water pump.
- viii. Start PB for fuel pump.
- ix. Stop PB for fuel pump.
- Start PB for air blower. х.
- xi. Stop PB for air blower.
- Auto/Manual water pump selector switch. xii.
- xiii. Auto/Manual fuel pump selector switch.
- xiv. Auto/Manual air blower selector switch.
- 230 V AC power ON/OFF switch. XV.

Field mounted instruments (Analog type)

- i. Steam pressure gauges.
- ii. Feed water pressure gauge.
- iii. Steam temperature gauge.
- Indicating thermostat or temperature switch for steam temperature, with a set point for high iv. temperature (superheat alarm)
- Steam pressure switch for both high & low. ٧.
- vi. Air pressure switch.
- Pressure switch for fuel oil. vii.
- viii. Pressure switch for feed water.
- Level switch for fuel oil level. ix.
- Level switch for feed water level. x. χi Limit switch for blow down valve.
- xii. Alarm rest, engine start and main switch.
- Tachometer, lube oil pressure indicator, temperature indicator for the diesel engine.
- Ignition of burner should be carried out using ignition transformer and ignition electrodes operating at 230 V AC, 50 Hz.
- Steam temperature controller function shall be incorporated in the control programme.

- **E.** A low voltage/under voltage (less than < 180 V AC) indication of instrument Panel incoming power (230 V AC, 50 Hz) to be provided.
- **F.** All three phase (415 V, 3 PH, 50 Hz) motor starter relays, overload relays, current transformers etc. should be placed in the control panel in such a way that no high voltage interference will occur in the PLC side. Therefore, the control panel should be designed like that upper half of the panel should include all instrumentation items and lower half of the panel should include all three-phase electrical component including ignition transformer with proper isolation. As a safety requirement, there shall be a physical separation between PLC components and the high voltage components.
- **G.** The control panel shall be mounted in such a way that it can absorb maximum shock/vibration since the panel is truck mounted and truck is required to move very frequently, sometimes on bad road condition also.
- **H.** The control panel shall have an entry for easy access and shall be suitable for use in IP-65 environment. The control system shall be designed in such a way that failure of portion of the system shall not jeopardize the health of the MSG unit i.e., the health of various auxiliaries as well as the steam generation availability shall be always ensured.
- I. All the indication as well as sequence, interlock, startup and safety shutdown through PLC using analog / digital I/O cards. Also preferred analog / digital indication in the panel as mentioned.
- **J.** The control panel shall include a programmable logic controller (PLC)/SLC with the following features to cater the operational need of the boiler.
 - (i) Indication of status of inputs and outputs for easy debugging.
 - (ii) Expandable inputs/outputs for 10% spare.
 - (iii) Program memory held in EPROM.
 - (iv) Communication port for connection to PC or laptop computer.
 - (v) Designed to work in boiler environment.
 - (vi) Battery backup for retaining memory in case of power failure.
 - (vii) The PLC program back up shall be handed over to OIL and logic checking need to be verified during FAT/PDI.
 - (viii) The PLC should have the facility to log the cumulative steam flow data in addition to instantaneous flow data.
- K. Control cabinets shall be industrial grade, enclosed type and shall be designed for bottom entry for cable connection and cabinet structure shall be rigid. Cabinets shall be equipped with easy access door and door shall be equipped with lockable handles and concealed hinges. All cable entry to the cabinet shall be properly rooted through conceal tray/conduit. Proper illumination shall be provided with operating door switch inside the cabinet.
- **L.** One (1) laptop/handheld programmer with latest OS (minimum i5 or better) and configuration for interfacing with PLC/SLC.

4.0 TRUCK UNIT:

- **A.** Overall dimensions & overall weight of complete unit (Truck Mounted Horizontal Mobile Steam Generator):
 - a. Overall Length: Within 12.0 metres. The bidder shall clearly mention the overall length of the complete unit.
 - b. Overall Width: Within 2.6 metres. The bidder shall clearly mention the overall width of the complete unit.
 - c. Overall, Height from ground level: Within 4.5 metres. The bidder shall clearly mention the overall height of the complete unit from ground level.
 - d. Overall weight of the unit: The overall weight of the complete unit shall not exceed the Truck manufacturer's Gross Vehicle Weight (GVW) Rating of the offered Truck.

Note:

Overall weight is the weight of the complete unit with all equipment & fittings, i.e. sum total of the weight of the Truck chassis with Driver's cabin, weight of the housing, weight of the steam generator along with its components, weight of the Generating Set, weight of boiler diesel fuel tank fully filled with diesel, weight of feed water tank fully filled with water, weight of all equipment, items, accessories etc. that are mounted, carried, kept in the unit.

The bidder shall clearly mention the Truck manufacturer's Gross Vehicle Weight (GVW) Rating of the offered Truck and overall weight of the complete unit.

- e. Overhang: No overhang beyond the original chassis except as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India shall be allowed. Extension of the original chassis/body by welding/ bolting or by any other means to accommodate the Mobile Steam Generator items on the chassis shall not be acceptable.
- f. The complete unit shall comply with District Transport Office (DTO) / Regional Transport Office (RTO) regulations of Assam, India.

B. TRUCK CHASSIS for MOBILE STEAM GENERATOR UNIT:

- a. The chassis for the "Mobile Steam Generator" unit shall be procured & supplied by the successful bidder. The successful bidder shall be responsible for supplying all equipment / accessories and properly mounting them on the chassis as described in this specification. Other details and requirements which are not covered under this specification, but necessary to complete the "Mobile Steam Generator" unit and / or to fulfil the operation/performance requirement shall be provided by the Successful Bidder, who will be responsible for the design and construction of the complete unit to the full satisfaction of M/s Oil India Limited.
- b. The bidder/supplier shall take special care in selecting and designing the Mobile Steam Generator unit considering the unit's application in typical oilfield roads. The offered model shall be latest and conforming to international quality standard norms, having specifications, fittings, accessories etc. as mentioned in the tender/order documents.
- **c.** The offered Truck shall meet the following specifications and requirements:
 - i. <u>Month / year of manufacture</u>: Brand new Truck procured after the date of issuance of Oil India Limited's Purchase Order / GeM Contract.

ii. Make & Model:

- (a) Truck model of any vehicle manufacturer of India meeting the specifications as mentioned in the tender.
- (b) The bidder shall clearly mention the make & model of the offered Truck chassis.
- (c) The bidder shall submit the technical leaflet of the offered Truck chassis to support the specifications along with the technical bid.
- **iii. Gross Vehicle Weight (GVW) Rating of Truck chassis:** Not less than 28,000 Kg. The bidder shall mention the Gross Vehicle Weight (GVW) Rating of the offered Truck chassis.

iv. <u>Drive & Axles</u>:

- (a) **Drive:** 6 x 2 drive. Bidder shall mention the drive of the offered Chassis.
- (b) Axles:
 - **Front Axle** 01 (one) no. non powered front axle.
 - Rear Axle 01 (one) no. powered & 01 (one) no. non powered axle, i.e., total 02 (two) rear axles.
- **Wheelbase:** In the range of 4800 mm to 6850 mm. The wheelbase is the horizontal distance between the center of the front axle and the Centre point between the two rear axles. The bidder shall clearly mention the wheelbase of the offered Truck chassis.

- vi. <u>Truck Engine</u>: Water-cooled diesel fuel engine of adequate power and torque shall be provided. The Truck engine is to be used for road drive of the unit only. The Truck engine shall not be utilized to run any equipment/ item(s)/ machineries etc. of Mobile Steam Generator (MSG) unit.
- vii. <u>Truck Engine Emission Norms</u>: Shall meet Bharat Stage VI (BS VI) OBD Stage II engine emission norms. The emission norms shall comply with Real Drive Emissions (RDE) using Portable Emissions Measurement System (PEMS) requirements. The bidder shall mention the emission norms of the offered vehicle chassis in the technical bid.
- **Steering:** Power assisted & Right Hand steering system (i.e., the steering wheel shall be on right hand side inside the driver's cabin when viewed from rear of the vehicle).
- ix. Gearbox / Transmission: Minimum 5 forward speed & 1 reverse speed.

x. Brake:

- (a) Foot operated pneumatic or hydraulic power assisted brake acting on all wheels with Antilock Braking System.
- (b) Suitable hand operated parking brake.
- xi. <u>Suspension (Front & Rear)</u>: As per the Truck manufacturer.
- xii. Wheels with Tyre: Total 10 (ten) nos. as detailed below:
 - (a) Total number of wheels with tyre in Front Axle Total 02 (two) numbers
 - (b) Total number of wheels with tyre in 02 (two) nos. Rear Axle Total 08 (eight) nos.
 - (c) Suitable mounting arrangement facility for spare wheel shall be provided.
- **Truck Engine Fuel Tank & Diesel Exhaust Fluid (DEF) Tank**: As per the Truck manufacturer. The bidder shall note that use of fuel from Truck Engine Fuel Tank & DEF from the Truck DEF Tank to run the prime mover of the MSG Unit shall not be allowed.

xiv. Driver's cabin:

- (a) Fully built driver's cabin. Driver's cabin supplied along with the Truck by the Truck manufacturer of the offered Truck with all gauges, fittings & accessories, driving controls etc. shall be provided.
- (b) Seating Capacity inside the driver's cabin shall not be less than 02 (two) numbers including the Driver.
- (c) Driver's cabin shall have 01 (one) bench type seat behind and parallel to the driver & co-driver seat originally built by the vehicle manufacturer. Driver's cabin with Single Cabin / Day Cabin shall not be allowed.
- (d) The seats shall have seat belts as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India as applicable in the state of Assam.
- xv. Speed Limiting Device (SLD): To be provided with valid certification as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India as applicable in the state of Assam.

xvi. Painting:

- (a) Exterior of Driver's cabin: As per the Truck manufacturer's standard.
- (b) Interior of Driver's cabin: Light shade as per Truck manufacturer's standard.
- (c) Chassis & undercarriage Rustproof painting.
- xvii. Other fitments & accessories, etc.: Following fitments & accessories etc. shall be fitted in each vehicle:
 - (a) All standard fittings, gauges/ meters, controls, dashboard & accessories as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India.
 - (b) Horn.

- (c) Audible Alarm when the vehicle is put in reverse gear.
- (d) Hazard Warning Lights.
- (e) Direction Indicator Lights.
- (f) Stop Lamps.
- (g) Head Lamps
- (h) Parking Lamps.
- (i) Cabin Lamps.
- (j) Fog Lamps.
- (k) Top, side marker lamps
- (I) To fix Retro-reflective tape on front, rear & both sides of the vehicle as per colour code Front: White, Rear: Red and Sides: Yellow
- (m) Windscreen Wipers.
- (n) Battery along with well covered battery box.
- (o) Glove box.
- (p) Mud Flaps & Guards.
- (q) Rear View Mirrors at both sides of Driver's cabin
- (r) Wherever feasible, bumper(s), side underrun protection device (SUPD), rear underrun protection device (RUPD), front underrun protection device (FUPD) are to be fitted.
- (s) Door footsteps for Driver & crew members.
- (t) First Aid Box at suitable location.
- (u) Towing provision / attachment at front & rear of the vehicle
- (v) Minimum 01 (one) number of Fire Extinguisher. Mounting arrangement for Fire Extinguisher shall be provided at suitable location of the vehicle.
- (w) Vehicle Tracking System (VTS) /GPS: To be provided with valid certification as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India as applicable in the state of Assam.
- (x) Suitable Spark Arrestor in the engine exhaust. The Spark Arrestor may be additional attachment to be fitted with the exhaust or chassis inbuilt mechanism. In case Spark Arrestor is not needed/ recommended as per the Truck chassis manufacturer as additional attachment, the bidder shall submit supporting document(s) from the Truck manufacturer or from Truck manufacturer's dealer along with the technical bid
- (y) One set of Jack with Handle and Wheel Wrench with Lever shall be supplied along with each vehicle. In case the wheel nuts at front and rear are of different size, then separate Wheel Wrench & Handle for both front & rear shall be supplied along with each unit.
- (z) In case any of fittings/accessories etc. as mentioned in the tender (order) does not come along with the vehicle as standard fittings/accessories from the vehicle manufacturer, the supplier shall procure the same and fit the same prior to delivery. Cost in this regard shall be borne by the supplier.

d. Other Notes:

- (a) No preference shall be provided for the vehicles with higher specifications etc. meeting the tender specifications. All vehicles meeting the tender specifications shall be considered equal.
- (b) While selecting the vehicle, bidder/supplier shall note that the offered vehicle accommodates all the equipment, items etc. and meets the tender/order specifications.
 - The bidder /successful bidder (i.e., supplier) shall be solely responsible for selecting the make & model of vehicle and designing, fabrication, mounting of entire system etc. as per the requirements mentioned in the tender. Oil India Limited (OIL) shall no way be responsible in case any of the selected make & model vehicle is not found suitable later on. Moreover, in such instances, no compensation etc. shall be payable by OIL. Accordingly, the supplier should decide & plan precisely for successful execution of the entire project.
- (c) The supplier (i.e. successful bidder) shall take special care while fabricating of the unit with respect to accessibility during maintenance, repairing and servicing of the vehicle components.

For example, in case the filling points for Diesel Exhaust Fluid (DEF) & Fuel etc., the components like battery cut off switch etc. are covered, the coverings shall be provided with openable provision during maintenance, repairing and servicing etc. of the components, wherever applicable.

Vehicle battery box inside the driver's cabin is not acceptable.

e. <u>Body builder</u>: The entire design, fabrication and mounting etc. of the Steam Generator Unit (SGU) housing may be done by the supplier or may be done by any professional automobile body builder. Any supporting documents of the supplier / automobile body builder, as the case may be, like valid Trade Certificate issued by District Transport Office (DTO) / Regional Transport Office (RTO) as per Central Motor Vehicle Rules, 1989 of India, if required during permanent registration of the vehicle shall be supplied by the supplier.

C. PLATFORM

- i. A suitable platform is to be constructed on the truck chassis to mount the skid(s) with all the items of the Steam Generator Unit (SGU) described at para 3.0 to 3.5 above and to construct a weatherproof housing as detailed at para 5.0 below.
- ii. Longitudinal Runners (Chassis sub-frame): All steel structure channel.
- iii. Cross members (Chassis sub-frame): All steel structure channel.
- iv. Body Frame Structure: All welded steel structure. Structure is to be painted desirably with high rich Zinc primer or better.
- v. Flooring: Minimum 05 mm Chequered plate flooring. The entire floor should be covered with antiskid aluminium chequered plate.
- vi. Suitable damper/shock absorbers, if required to arrest vibration of housing as per design are to be fitted.
- vii. Positioning of the items of the Steam Generator Unit (SGU) on the platform should be such that the load is distributed evenly on the platform.
- **D.** <u>WORKMANSHIP</u>: The workmanship and fabrication/ mounting, finishing etc. should be of highest standard. The materials, fittings, accessories etc. supplied/ fitted shall be new, of recent make, best quality. Workmanship should be of good quality and appearance. Following is a partial and non-exhaustive list of examples:
 - (i) Flame cut edges shall be ground smooth. Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth.
 - (ii) Bolt holes shall be drilled (not torch cut).
 - (iii) Welds shall be of good quality and of sufficient strength.
 - (iv) Use self-locking nuts.
 - (v) All electrical wirings will be well supported with support type clamps & conduit wherever required.
 - (vi) The electrical connections, other than those which come along with the Truck, shall be suitable to operate in oilfield area. 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 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.

5.0 <u>UNITISATION & SPECIFICATIONS OF HOUSING</u>:

a. The mobile steam generator shall be generally fabricated on the basis of the supplied layout drawing (Not to Scale) as shown in **Annexure IA**. The bidders are also to note that the supplied drawing is only a reference drawing and in no case, it should be considered as the final drawing. However, the successful bidder shall have to make their own detailed lay out drawing, P&I drawing etc. and the same shall have to be submitted within 4 weeks from the date receipt of formal order for OIL's approval prior to starting actual fabrication of the unit.

- **b.** All the items of the Steam Generator detailed at para 3.0 to 3.5 above are to be installed on suitable individual skids of preferably on a single skid and the skid(s) is to be mounted on the truck platform through bolts extended up to the underneath cross members of the platform as well as chassis, as applicable. Mounting of the skid(s) either by the bolts or welding to the platform sheet (floor sheet) shall not be acceptable.
- **c.** The skid(s) is to be covered with suitable chequered plate flooring at areas where people will generally stand to operate different items of the steam generator unit.
- **d.** Positioning of different items of steam generator unit should be such that load is evenly distributed on the truck and does not create any problem in operating the truck.
- e. A suitable all steel construction weatherproof housing is to be constructed on the platform. Vertical posts of the housing structure are to be welded to the peripheral channels of platform through horizontal members and/or underneath cross members of platform. Welding of posts directly to the peripheral channels/floor sheet or welding of the horizontal members to the floor sheet itself should be avoided.

The housing is to be constructed as per following specifications –

- (i) **Structure** All welded MS structure made out of square tubing of adequate size (min 5.00 cm sides).
- (ii) Panelling Aluminium internal and external panelling of thickness not less than 18 gauges.
- (iii) **Height** Not more than 2200 mm from truck platform. Overall height of the complete MSG unit including chimney shall not be more than the overall height of the complete unit from the ground as provided by the bidder against para 4.0 (A).
- (iv) **Width & length** As per size of the truck platform (to cover the complete platform). The width and the length of the housing shall be such that is does not exceed the overall width and overall length of the complete unit as provided by the bidder against para 4.0 (A).
- (v) Doors 1 (One) full height 2 (two) panel door at rear of the housing (width approx. 600 mm less than the cabin width) at rear of the housing. 2 (two) full height 2 (two) panel doors of minimum 1500 mm width on either sides of the housing. Positioning of the side doors as per convenience/easy access. All doors shall be provided with strong hinges and locking provisions from inside & outside.
- (vi) **Windows** Minimum 4 (four) nos. windows of size preferably not less than 1.50 m x 0.75 m on sides of the housing with lockable sliding toughen glasses and aluminium frame.
- (vii) **Ventilation** For proper ventilation the housing shall be fitted with two nos. of suitable exhaust fans on opposite walls.
- (viii) **Insulations** Glass wool packing inside all walls and doors to protect personnel from heat.
- (ix) **Waterproofing** Suitable sealant/gasket shall be used to arrest water leakage through panel joints etc.
- (x) **Illumination** Adequate number of lights inside the housing for proper illumination. While at least one number light is to be connected to truck electrical system, power sources for the rest will be from the steam generator circuit.
 - In addition, two searchlights connected to truck's electrical system (switches inside the driver's cabin) shall be provided at rear and front top corners of the housing.
- (xi) Painting Two coats of primer followed by two coats of paints of following shades.
 Exterior Caterpillar Yellow or Golden yellow.
 Interior Light shade.

(xii) Other fitments/accessories -

- a. Adequate firefighting equipment (e.g., fire extinguishers) inside the housing with suitable mounting arrangements at suitable locations.
- b. Suitable foldable ladder/steps of sufficient width below each door.
- c. 01 (one) no. fixed type ladder at rear of the housing for climbing to housing's roof top.
- d. Suitable walkway on top of housing's roof to avoid damage to roof structure/panelling.
- e. Roof of the housing shall be made slanting towards sides to avoid water accumulation.
- f. Suitable ventilations with fixed cover on roof (Jack-roof type) and with folding cover on wall near the engine for easy escape of hot air shall be provided. Additionally, two numbers of exhaust fans shall be provided inside the MSG cabin for proper ventilation.
- **5.1** A detailed drawing of the housing showing dimensions, construction, material descriptions, positions of doors & windows, ladders/steps & walkway, floodlights, switchboards, fire extinguishers, ventilations etc. is to be submitted along with the bid for scrutiny and acceptance.

6.0 SPARES:

- **a) COMMISSIONING SPARES:** The supplier has to supply all the spare parts required for initial commissioning of the unit.
- **OPERATIONAL CRITICAL SPARES:** Supplier shall supply the following operational critical spares along with the supply of the EACH UNIT:
 - i. 1 ½" Globe type valve 2 nos.
 - ii. 1" global type valve 3 nos.
 - iii. Fuel pump (Suntec/Danfoss or equivalent) 1 no.
 - iv. Water pump -1 no.
 - v. 1 ½" non-return valve 2 nos.
 - vi. Ignition transformer 1 no.
 - vii. Spray nozzle 1 no.
 - viii. Safety valve 1 no.
 - ix. Steam coil 1 no.
 - x. Blower 1 no.
 - xi. Alternator 1 no.
 - xii. Ignition Electrodes 3/8" 1 no.
 - xiii. ½" Non return valve 1 no.
 - xiv. 1" Flange type globe valve 3 nos.
 - xv. 1" Check valve 2 nos.
 - xvi. 1 ½" Flange check valve 1 no.
 - xvii. 1 ½" Flange type Globe valve 2 nos.
 - xviii. Contactors 1 set.
 - xix. Overload relays 1 set.
 - xx. Fuses 1 set.
 - xxi. Lamps 1 set.
 - xxii. A set of instrumentation spares comprising field switch/ instruments, solenoid valve, flame sensor, programmable controller & card, power supply etc. (Quantity:01 no. each)
 - xxiii. Engine Spares:
 - (a) Fuel filter 06 nos.
 - (b) Lube oil filter 06 nos.
 - (c) Air filter- 06 nos.
 - (d) Complete Set of Belts 04 Sets
 - (e) Lube Oil for initial filling

Note:

- (i) All spares in specified quantity as indicated above shall be supplied along with each unit. Cost of these spares MUST BE INCLUDED IN THE TOTAL QUOTED PRICE OF EACH UNIT.
- (ii) Specific description, part nos., Make etc. and Unit price of each and every spare as mentioned above shall however be clearly indicated separately and submitted in the manner as mentioned in the Note below. Please note that no price should be mentioned in the Technical Bid.

(iii) Bidder shall also quote separately for any additional spares with similar details as felt necessary for 2 (two) years trouble free operation & maintenance. However, cost of the spares will not be considered for bid evaluation and SHOULD NOT BE INCLUDED IN THE COST OF THE UNIT.

NOTE FOR SUBMISSION OF SPARE PRICE LIST: Description, part numbers etc. (if available) and unit price of each & every spare as mentioned in Note (ii) & (iii) shall be provided separately as <u>pdf. document</u> under "Financial Documents" while submitting the Price Bids in GeM Portal. Please note that NO PRICE SHOULD BE MENTIONED IN THE TECHNICAL BID.

c) RECOMMENDED SPARES: The bidder is to furnish a list of spares & components that will be required for regular operation and maintenance, overhauling etc., throughout the life of the equipment complete with price of each item. Annual consumption of each spare should be furnished. The bidder should also provide detailed spare list of all the items including bought out items in the operation and maintenance manuals. The list should include a spare parts list along with OEM part numbers, make & model of the equipment and contract postal address of OEM for all items of the whole unit. The price quoted for recommended spares will not be taken into account for bid evaluation and SHOULD NOT BE INCLUDED IN THE COST OF THE UNIT.

NOTE FOR SUBMISSION OF RECOMMENDED SPARE PRICE LIST: The price of recommended spares [to be provided by bidder as per 6.0 (c) above] shall be provided separately as pdf. document under "Financial Documents" while submitting the Price Bids in GeM Portal. The price of these spares [6.0(c)] shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the unit. Also please note that NO PRICE should be mentioned in the TECHNICAL BID.

- d) 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 10 (ten) years from the certified date of completion / successful field commissioning of the unit.
- e) To provide Two (02) sets of toolbox of reputed make.

7.0 **DOCUMENTATION**:

- i) The following documents are to be submitted along with the bid:
 - a) Preliminary P&I diagram along with bill of equipment. Technical catalogue of all instrumentation items needs to be submitted.
 - b) Instrumentation schematic diagram and interlock control circuit diagram.
 - c) General layout diagram (Plan, Elevation & Side views) showing dimensions of various components and the complete Mobile Steam Generator unit as a whole.
 - d) Details of weight/load distribution on the truck chassis.
 - e) Detailed calculation for sizing of all equipment.
 - f) Relevant technical catalogue/manuals of each component like water pump, fuel pump, blower, diesel engine, coil tube, alternator, burner system, instruments & control system, offered truck chassis etc. Detailed specification of each component should be provided.
 - g) Indicative Electrical control circuit diagram and layout diagram.
 - h) Bill of materials for all equipment.
 - i) Filled up Annexure IV (Technical Evaluation Matrix) document.
- ii) The following documents are to be submitted by the successful bidder within 4 weeks from the receipt of the formal order for OIL's approval. Only after receiving approval from OIL, fabrication of the MSG unit shall start.
 - a) Detailed engineering drawing (Plan, Elevation & Side views) showing lay out of all equipment, load distribution, equipment mounting details, P&I drawing, electrical circuit diagram, panel wiring diagram, details (including make & model no) of all equipment mentioning all major dimensions and weight of the respective components and complete unit along with quality assurance plan.

<u>Note</u>: During detailed designing of the unit special emphasis shall be given to the issue of ease of accessibility, servicing/maintenance and removability of individual equipment while maintaining a reasonable compactness of the unit as a whole.

- b) Detailed calculation for sizing of all equipment.
- c) Loop diagram and lop details.
- d) PLC hardware and software.
- e) Logic details of startup, sequence, interlock, safety shutdown, alarm, control & monitoring.
- f) Ladder programs development for startup, sequence, interlock, safety shutdown, alarm, control & monitoring.
- g) Emergency & Shutdown logic.
- h) Power and control circuit diagrams of generator control panel, MCC and burner control system.
- i) Details of cables, luminaries, and other accessories.
- iii) The following documents are to be submitted prior to dispatch of the equipment. The supplier is to note that only after scrutiny of the following documents and obtaining categorical approval, the equipment shall be dispatched from works:
 - a) 5 sets of bounded Operation and maintenance manual (additionally one copy in a CD) covering all the equipment. The manuals shall contain details like make, model, part number etc. of all installed equipment including bought out items with contact postal address of the supplier/ OEM and a detailed spares list. However, to reduce the size of the manual, the manual may be separated into following volumes.
 - Manual for MSG unit with control panel and its related ancillaries like pumps, blowers etc.
 The manual shall contain the detailed P&I diagram, panel wiring diagram, electrical circuit diagram etc.
 - Manual for alternators, Motors and related panels.
 - Operation & maintenance manual and illustrated spare parts catalogue for the SGU prime mover (pilot engine).
 - Manual for Instrumentation and control system including recommended spare parts list.
 However, one copy of the manual shall be provided as master copy containing all the details in the same volume.
 - b) Necessary certificate/documents from competent Government authority to obtain permission from IBR, Assam for operating the boiler in OIL's operational area.
 - c) Engine emission certificates MSG prime mover.
 - d) License copy of software for control &instrumentation system (having lifetime validity) if any.
- **8.0 DEVIATIONS FROM THE SPECIFICATIONS:** The bidder shall enclose comprehensive list of intended deviations from the technical specifications, of any clearly highlighting the reasons thereof, along with the bid. If no deviations from the technical specifications are intended, the same shall be confirmed in the offer. But OIL reserves the right for acceptance or rejection of the deviation.
- **9.0 BID SUBMISSION & DOCUMENTATIONS:** Bidder's response to all tender stipulations should clearly be defined maintaining the same sequence as in the tender. 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 tender specifications/Technical leaflet' 'Noted' etc, or in any similar fashion is not encouraged. Quoting only the tender stipulation without any confirmation of acceptance of the same and/or without any confirmation of offering the same is also not acceptable.

10.0 <u>INSPECTION CUM ACCEPTANCE</u>:

10.1 THIRD PARTY INSPECTION:

Third Party inspection of the units is to be carried out for all the component of the unit by any one of following OIL approved Third Party Inspection agencies. <u>The bidder has to arrange and bear for the Third Party Inspection</u> at manufacturer's plant as per the broad scope of work mentioned herein. Bidder should confirm that items/equipment/material supplied by them will be inspected by any of the following third

party inspection agencies at their own cost. Third Party Inspection Report shall be submitted along with the dispatch document. **Bidder to include the Third Party Inspection charges in their quoted price.**

- (i) M/s Lloyds
- (ii) M/s Bureau Veritas
- (iii) M/s Rites
- (iv) M/s IRCLASS System and Solutions Private Limited
- (v) M/s Tuboscope Vetco
- (vi) M/s DNV MES India Private Limited

Scope of Third Party Inspection shall be as under -

- (i) Witness the manufacturing and assembly.
- (ii) Witness the functional and performance tests.
- (iii) Review of inspection procedure
- (iv) Review of tests and documents related to all pressure holding equipment.
- (v) Any other requirement of the inspection agency to satisfy of the equipment as per applicable standards.
- 10.2 Pre-dispatch Inspection: Pre shipment inspection shall be carried out by OIL [by representative of user department as well as service dept viz. Instrumentation, Logistics Dept. Field Engineering, Electrical Engineering, and representatives of state statutory bodies (state boiler authority as per IBR 1950)] at manufacturing site after accomplishment of Third-Party Inspection (TPI). The supplier shall inform OIL at least 01 (one) month ahead for such inspection to enable OIL to send its inspectors. The supplier has to arrange for inspection of the units by inspecting team including the statutory bodies (state boiler authority as per IBR 1950) at manufacturing site. OIL will bear the expenses towards traveling and accommodation etc. of the OIL's inspection team. However, the inspection at manufacturing site by the statutory body (as per IBR 1950) and approval from the same will be the sole responsibility of the bidder. The expenses towards the travelling and accommodation of the representative from statutory body (as per IBR 1950) shall be borne by the bidder. Bidder to include the price accordingly in their quote.

The Inspection cum Acceptance process would include the following minimum steps/tasks but not limited to –

- a. Physical verification / inspection of all the items / fittings / accessories including all Parts Catalogue, Maintenance & Service Manuals, Vehicle documents, etc. and actual loading on axles. The supplier shall arrange driver/operator, weighing facility and any other infrastructure during the process of inspection as and when required.
- b. Operational testing of the carrier.
- c. Supplier shall have to take note of any minor modification/s for operational requirement suggested by the inspector and comply with the same at no extra cost.
- d. The inspection report shall be prepared at the end of the inspection and jointly signed by both the parties.
- e. Supplier shall confirm in writing compliance of all the points raised in the inspection report as well as any other subsequent additions/changes, following deliberation with the inspector after arrival at Duliajan.
- **10.3** Supplier shall dispatch only on receipt of OIL's dispatch advice.
- **11.0** TRAINING TO OIL PERSONNEL ON MSG SYSTEM: During installation and commissioning of the unit, the commissioning engineer shall have to provide field training as well as classroom training for a period of minimum 1 (one) week to OIL's operating crew and technicians on Operation, Maintenance, troubleshooting, Working Principle and repair/ replacement of different equipment.

Bidders shall quote their training charges for evaluation purpose as per provision in GeM portal under ICT Charges.

12.0 **COMMISSIONING**:

12.1 The unit shall be commissioned at Duliajan, Assam, India with 3 (three) successful field jobs at different wells after arrival of the Supplier's Commissioning Engineer within a period of 03 (three) week's time.

- **12.2** The successful bidder shall quote for commissioning charges which shall include the to and fro charges, food & lodging and daily charges of the personnel. OIL will provide accommodation (on payment basis) subject to availability. OIL shall provide local transportation to the commissioning personnel.
- **12.3** The commissioning engineer shall be available at site within fifteen (15) days of the intimation given by OIL for commissioning the unit.
- **12.4** Bidders shall quote commissioning charges for evaluation purpose as per provision in GeM portal under ICT Charges.
- 13.0 GUARANTEE / WARRANTY: The bidder shall offer a period of at least 1 (one) year warranty for the entire equipment (including Truck chassis) supplied from the date of successful field commissioning of the entire equipment. OIL reserves the right to inspect, test and if necessary, reject any part/parts after delivery at site (including incomplete manuals, catalogues, etc.) in case of any fault on the part of the supplier. It shall in no way be waived by the reason that the unit/item was previously inspected and passed by OIL as per Inspection Clause detailed elsewhere in the tender. To keep the unit fully operational, in case of failure of any item during the warranty period, it shall be the supplier's responsibility to arrange replacement/repairing at site at their cost including customs, freight, etc. within a period of maximum 3 (three) weeks from the date of notification of such failure and warranty for such items shall be extended accordingly.
- **14.0** Following documents are to be submitted along with supply for each unit by the supplier and cost in this regard, if any, shall be borne by the supplier:
 - a) Invoice(s) in original.

Notwithstanding any clause mentioned elsewhere in the tender, the Invoices shall be submitted in 04 (four) parts separately as under for each complete unit for the purpose of registration of motor vehicle:

- (i) Invoice for the Truck chassis: It shall include the cost of the Truck chassis with driver's cabin.
- (ii) Invoice for the Steam Generator Unit (SGU) Housing: It shall include the cost of fabrication, mounting, etc. of the Steam Generator Unit (SGU) Housing.
- (iii) Invoice for the machines, equipment, items permanently mounted in the Steam Generator Unit (SGU) Housing.: It shall include the cost of the machines, equipment, items permanently mounted in the Steam Generator Unit (SGU) Housing
- (iv) Invoice for all other costs: It shall include all other costs not considered in the above (i), (ii), and (iii).

<u>Note</u>: Vehicle Chassis Number & Engine Number shall be mentioned in invoice(s) against above Sl. No. (i), (ii) & (iii).

The Truck shall be purchased by the supplier in such a way that the temporary registration & subsequent permanent registration of the Truck with District Transport Office (DTO)/Regional Transport Office (RTO) can be done in the name of Oil India Limited, Duliajan, Assam-786602 without any change of ownership. The supplier shall obtain the Invoice etc. from the vehicle dealer/manufacturer accordingly.

b) Sale Certificate, Emission Certificate, Initial Road Worthiness Certificate in Form 21, 22 & 22(A), Temporary Registration Certificate as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India; valid certification against Speed Limiting Device (SLD), valid certification against VTS/GPS etc. in original in the name of Oil India Limited, Duliajan, Assam-786602 for permanent registration of the vehicle in the name of Oil India Limited, Duliajan, Assam-786602 (India) with local government District Transport Office in the state of Assam (India).

The place, code of the permanent registration shall be intimated nearer the time.

- c) Any other documents as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India required for registration of the vehicle with government District Transport Office in the state of Assam (India) during the period of delivery of the vehicle.
- d) Any manuals/documents (such as Owner's manual) etc. supplied by the vehicle manufacturer.
- e) ASME/IBR-1950 certificates of Boiler & Pressure parts.

15.0 NOTES TO THE BIDDERS:

- (a) The supplier shall provide a tool kit for operation and maintenance of prime mover, boiler & instrumental panel.
- (b) 'OIL' logo will have to be marked prominently on both sides of the boiler house.
- (c) The bidder has to mention the names of manufacturer of all items quoted. All the items offered shall be from manufacturers as mentioned in the tender at the relevant places.
- (d) The bidder shall do the packaging of the unit in such a manner that all the equipment are easily accessible and removable for regular operation & maintenance.
- (e) The supplier shall obtain permission from the IBR, Assam for operating the boiler in OIL's operational area.
- (f) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer may be rejected.
- (g) OIL's Purchase order number must be engraved on the body of the item. Bidder must confirm the same categorically in their quotation.

16.0 DELIVERY:

- a. Notwithstanding any clause(s) on delivery mentioned elsewhere, the complete Truck Mounted Horizontal Mobile Steam Generator (MSG) unit as per tender/ order requirements, specifications, fitments, and accessories etc. shall be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) by the supplier through their own arrangement, cost & risk. The date of reporting of the Truck Mounted Horizontal Mobile Steam Generator (MSG) unit in Oil India Limited, Duliajan, Assam-786602 shall be considered as the actual date of delivery.
- b. Temporary Registration Certificate (if applicable) shall be arranged & supplied by the supplier as per The Central Motor Vehicles Rules, 1989 and Motor Vehicle Act, 1988 of India required for delivery [in Oil India Limited's premises at Duliajan, Assam-786602 (India) from supplier's destination] & subsequent permanent registration of the Truck Mounted Horizontal Mobile Steam Generator (MSG) unit.
 - Temporary Registration shall be done in the name of Oil India Limited, Duliajan, Assam-786602 (India) by the supplier at their cost. The place, code of the permanent registration shall be intimated nearer the time. Cost of permanent registration shall be borne by Oil India Limited.
- c. The supplier shall ensure that the vehicle shall be mobilized for delivery with all valid documents like Temporary Registration, Insurance as applicable, Driver's Licence (as applicable) etc. Oil India Limited (OIL) shall no way be held responsible for any loss, damage of the vehicle under any circumstances. If required, Oil India Limited (OIL) can arrange third party Motor Vehicle Insurance at the cost of Oil India Limited (OIL) on receipt of advance intimation & necessary document from the supplier.

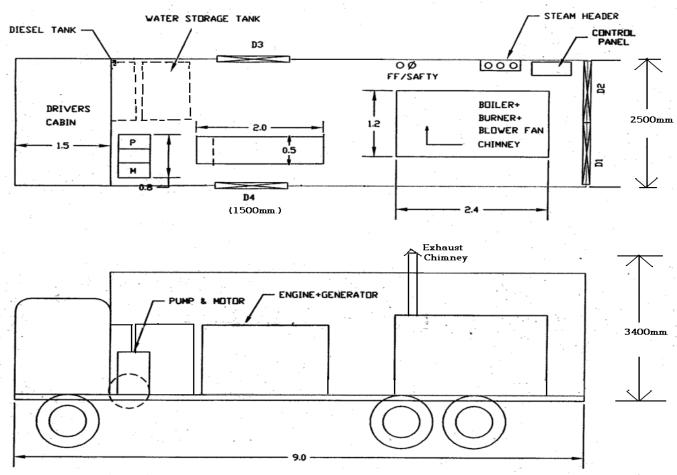
17.0 <u>VAHAN PORTAL DATABASE, PERMANENT REGISTRATION & HIGH SECURITY REGISTRATION PLATE (HSRP)</u> <u>KIT</u>:

The bidder/ supplier shall ensure that, the vehicle manufacturer shall enter the vehicle details in the portal "VAHAN" of Ministry of Road Transport & Highways (MoRTH), Government of India in accordance to Motor Vehicle Act, 1988 & Central Motors Vehicles Rules, 1989 of India prior to delivery of the vehicle. On receipt of the vehicle as per the purchase order and documents required for permanent registration, Oil India Limited shall apply for permanent registration of the vehicle at the office of the local government District Transport Office (DTO). On receipt of the government registration number, Oil India Limited shall inform the government registration number to the bidder/ supplier. The supplier shall supply the High Security Registration Plate (HSRP) Kit for the vehicle through the dealer/vehicle manufacturer or any other party authorized to issue the HSRP Kit. Cost of High Security Registration Plate (HSRP) Kit shall be borne by the bidder / supplier.

- **18.0 PAYMENT TERMS**: As mentioned elsewhere in the tender.
- 19.0 Sample copies of Form 21, Form 22 & Form 22A of Central Motor Vehicle Rules, 1989 to be submitted by the supplier are provided as Annexure IB, Annexure IC & Annexure ID.

ANNEXURE-IA

CHASIS LAYDUT



SKETCH ONLY FOR REPRESENTATION PURPOSE (NOT TO SCALE)

ANNEXURE – IB

FORM 21

[See rule 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 on	
Name of the buyer	
Son/wife/daughter of	
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. Horsepower or cubic capacity	
6. Fuel used	
7. Number of cylinders	
8. Month and year of manufacture	
9. Seating capacity (including driver)	
10. Unladen weight	
11. Maximum axle weight and number and	
description of tyres (in case of transport vehicles)	
(a) Front axle	
(b) Rear axle	
(c) Any other axle	
(d) Tandem axle	
12. Colour or colours of the body	
13. Gross vehicle weight	
14. Type of body	

(Signature of the manufacturer or dealer or officer of Defence Department or registered E-rickshaw or E-cart Association) *Strike out whichever is inapplicable.

ANNEXURE – IC

FORM 22

[See rule 47(1) (g)] ROAD-WORTHINESS CERTIFICATE FOR COMPLIANCE TO EMISSION AND NOISE STANDARDS

(To be issued by the Manufacturer or Importer or Registered Association in case of E-rickshaw or E-cart, along with the vehicle)

It is certified that the following vehicle complies with the provisions of the Motor Vehicles Act, 1988, and the rules made thereunder: -

1.	Mod	del/Commercial Name of the vehicle:				
2.	Cha	ssis number:				
	(Exc	ample: - Vehicle Identification Number (VIN)	or ATIN or PIN/Trailer Identification Number, etc.)			
3.	Engine number (Motor number, in case of Battery-Operated Vehicles):					
4.	4. Applicable Emission Norms:					
	(Exc	(Example: - Bharat Stage-IV/VI/TREM-III/Equivalent, as permitted under the act, Select NA for Battery				
(Оре	Operated Vehicle)				
5.		ssion, Sound Level for Horn and Pass by noi proval Testing as per Central Motor Vehicle	se values of the above vehicle model, obtained during Type Rules, 1989 are given below: -			
	(i)	Type Approval Certificate No.:				
	(ii)	Type of Fuel:				
		(Example: - Petrol/Diesel/CNG/LPG/Dual/	Biofuel/Hybrid, etc.)			
	(iii)	Emission values for vehicles: -				

TABLE POSITIVE IGNITION ENGINE OR COMPRESSION IGNITION ENGINE VEHICLES

Sr.	Pollutant	Units	Value (up to 3
No.	(as applicable)	(as applicable)	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	
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	Numbers/km or Numbers/kWh	

- (iv) Noise level (as applicable):

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

(Facsimile Signature of Manufacturer or Importer or Registered Association, in case of E-rickshaw or E-cart)

- *Note 1.* This Form shall be issued with the signature of the manufacturer or importer or registered association, in case of E-rickshaw or E-cart 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.

ANNEXURE – ID

FORM 22-A

(See rules 47(g), 115, 124(2), 125-C, 125-F, 125-G, 126-A, 127) INITIAL CERTIFICATE OF COMPLIANCE WITH POLLUTION STANDRADS, SAFETY STANDARDS OF COMPONENTS AND ROAD-WORTHINESS (FOR VEHICLES WERE BODY IS FABRICATED SEPARATELY)

(TO BE ISSUED BY THE MANUFACTURER)

Certified that the following vehicle complies with the provisions of the Motor Vehicles Act, 1988, and the

rules made thereunder, including the	following mass emission norms:
Brand name of the vehicle : Chassis number : Engine number/ motor number : (in case of battery operated vehicles) Sub-rule No. of Rule 115 : Emission Norms : (Bharat Stage-I/II/III, etc.)	
	Signature of chassis manufacture
Form 22-A, Part I shall be issued with facsimile signature in ink under the he	the signature of the manufacturer duly printed in the Form itself by affixing ead and seal of the manufacturer.
	PART II (TO BE ISSUED BY THE BODY BUILDER)
<u>•</u>	ne following vehicle has been fabricated by us and the same complies with Act, 1988, and the rules made there under:
	: :: :: :: :: :: :: :: :: :: :: :: :: :
*Applicable for buses only	(Signature of the body builder)
Form 22-A, Part II shall be issued with facsimile signature in ink under the ha	h the signature of the body builder duly printed in the Form itself by affixing and and seal of the body builder.

Note - PART II shall be applicable for new model of buses manufactured on or after the 1st October, 2014 and for the existing models of buses manufactured on and after 1st October, 2016 and in case of Road Ambulances and Motor Caravans manufactured from the date of applicability of AIS-125 (Part 1): 2014 and AIS-124: 2014 respectively.

ANNEXURE - II

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

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

A. BID REJECTION CRITERIA

(A.1) BRC - TECHNICAL:

1.0 The bidder shall be the Designer & Manufacturer of the tendered item.

OF

The bidder shall be a Dealer/Distributor/Sole Selling Agent/ Authorized Packager of the Designer & Manufacturer of the tendered item.

Note:

- a) Tendered Item: Mobile Steam Generator Unit.
- b) The Designer & Manufacturer shall be in business of manufacturing of Mobile Steam Generator Unit for last 05 years prior to Bid Closing date of this tender. Documentary evidence in this regard must be submitted along with the Technical Bid as per para 2.3.
- c) Bidders other than Designer & Manufacturer of Mobile Steam Generator Unit must submit a valid Authorization letter and back-up warranty from the Designer & Manufacturer. The Authorization letter must be duly sealed & signed by the Designer & Manufacturer on their official letter head clearly mentioning the status of the Bidder.
- d) The Dealer / Distributor / Agent / Authorised Packager shall categorically confirm in their technical bid that the offered Designer & Manufacturer of tendered item will not be changed after submission of the bid.

2.0 **BIDDERS' EXPERIENCE**:

- 2.1 In case the Bidder is the Designer & Manufacturer of tendered item, the bidder shall have the experience of successful execution (supply, installation and commissioning) of minimum 01 (one) no. of the tendered item in last seven (07) years preceding the original bid closing date of this tender to any E&P Company/Oil & Gas Company or Service Provider to an E&P company/Oil & Gas Company, either by themselves or through their agent/distributor/ dealer/ authorized packager and documentary evidences in this regard must be submitted along with the Technical Bid as per para 2.3.
- 2.2 In case the Bidder is a Dealer/Distributor/Sole Selling Agent/ Authorized packager of the Designer & Manufacturer of tendered item, the following criteria shall be met by the Bidder:
 - (i) The Bidder as a Dealer/Distributor/Sole Selling Agent/ Authorized Packager shall have the experience of successful execution (supply, installation, and commissioning) of minimum 01 (one) no. of the tendered item in last seven (07) years preceding the bid closing date of this tender to any E&P Company/Oil & Gas Company or Service Provider to an E&P company/Oil & Gas Company.
 - <u>Note</u>: The bidder's experience of successful execution of the Mobile Steam Generator Unit as above in clause 2.2 (i) where the Designer and Manufacturer other than the offered Designer & Manufacturer of the tendered item will also be accepted.
 - (ii) Their Designer & Manufacturer must also 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 documentary evidence to substantiate the above experience criteria (para 2.1 and 2.2, as applicable) must be submitted along with the technical bid, failing which the Bid shall be treated as incomplete and rejected:
 - (a) Copy of Purchase order(s)/contract(s) awarded by Client(s)
 - (b) Completion certificate from the client (on Client's/User's official letter head with signature & stamp)

OR

- (c) Any other documentary evidence that proves the successful execution of the Purchase order(s)/contract(s) as mentioned in point (a).
- 2.3.2 In case experience credentials are 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/Oil & Gas Company for which the tendered item has been utilized. Alternatively, 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/Oil & Gas Company for which the tendered item has been utilized for providing service.
- 2.3.3 The bidder who fulfils relevant experience criteria as per clause no. 2.1 or 2.2 (as applicable), vide execution of past orders for Oil India Limited, and their performances are found suitable, need not submit all credentials of past supply experience. For consideration of the above, the bidder has to provide a list of OIL's past purchase orders, with quantity supplied and specifications, which have been received at OIL and found suitable. It may be noted that fulfillment of required quantity for experience criteria vide clause no. 2.1 and 2.2 above is a must and only the quantity received by OIL and found suitable will be considered for the purpose stated above.
- 2.3.4 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.
- 2.3.5 The service provider to an E&P company/Oil & Gas Company shall mean company who has bought the tendered item and has provided service to an E&P company/Oil & Gas Company utilizing the tendered item.
- 2.3.6 Original Bid Closing Date shall be considered for evaluation of BRC Criteria in case of any extension of the bid closing date.
- 2.3.7 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.
- 2.3.8 A supply order executed by a bidder for its own organisation/subsidiary cannot be considered as experience for the purpose of meeting BEC.

3.0 **DELIVERY PERIOD**:

Delivery to be completed within <u>365 days</u> from the date of placement of order by OIL. The date of reporting of the Truck Mounted Horizontal Mobile Steam Generator (MSG) unit in Oil India Limited, Duliajan, Assam-786602 shall be considered as the actual date of delivery. Bidders must categorically confirm the above in their Technical Bid.

Installation & Commissioning of the Mobile Steam Generators shall be completed within **21 DAYS** from the date of receipt of site clearance from OIL.

Bids submitted by Bidders quoting delivery period more than the abovementioned duration shall not be accepted. Bidders must categorically confirm the delivery period in their Technical Bid.

(A.2) BRC - FINANCIAL:

1.0 The bidder must have an annual financial turnover from Operations of minimum INR 2,11,76,699.00 during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender Audited Annual Reports.

[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 - A) 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 document must be submitted along with the technical bid:
 - i) A certificate issued by a practicing Chartered Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual Turnover & Net worth as per format prescribed in (PROFORMA B)

OR

- ii) Audited Balance Sheet alongwith Profit & Loss account. In case of foreign bidders, selfattested/digitally signed printed published accounts are also acceptable.
- b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/ State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.
- 4.0 In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date on which the Audited Balance Sheet and Profit & Loss Account is signed. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.
- 5.0 In case the Bidder is subsidiary company (should be 100% 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 should be in line with Para A.2 (1.0) above.
 - (ii) Net Worth of the parent/ultimate parent/holding company should be positive in line with Para A.2 (2.0) above.
 - (iii) Corporate Guarantee (PROFORMA C) on parent/ultimate parent/holding company's 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) Documents to substantiate that the bidder is as 100% subsidiary of the parent/ultimate parent/holding company.

(A.3) BRC - COMMERCIAL:

- 1.0 Bids are invited under SINGLE STAGE TWO BID SYSTEM. Bidders should upload Techno-Commercial Bid (Unpriced Bid) and Priced Bid separately at the designated fields assigned in GeM Portal. 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. 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 discounts.
- **3.0** Bids received in physical form 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 90 days** from the date of actual Bid Closing Date. Bids with lesser validity shall be straightway rejected.
- 6.0 Bidders must confirm that goods/materials to be supplied against the order arising out of this tender shall be of recent make, unused, of the best quality & workmanship and free from defects. The Bidder must undertake to stand guaranteed for the materials as called for in the tender. Defective goods/materials rejected by OIL, whether the entire lot or part thereof, shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.
- 7.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Security must be valid for a period as called for in the tender document. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected. (Please refer Annexure III: GENERAL NOTES TO BIDDERS)
- 8.0 Bids must be accompanied by Bid Security for the amount as mentioned in the tender document and shall be in the prescribed format (PROFORMA G) if submitted in the form of Bank Guarantee (BG). Bid Security may also be paid through online payment mode. Bid Security must be submitted within the scheduled Bid Closing date and time of the Tender, failing which the bid may be treated as incomplete and may lead to rejection of the bid without making any reference to the bidder. The amount of Bid Security (EMD) must be strictly as specified in the tender document. Bid Security if submitted in the form of BG/e-PBG must be valid at least for a period of 135 days from the date of original bid closing date of the tender. Bid shall be rejected without further reference, if the Bid Security (EMD) is not received strictly as above, except where exempted. OIL will not assume any responsibility whatsoever for submission of deficient/faulty Bid Security or for delay/non-delivery of the same (Please refer Annexure III: GENERAL NOTES TO BIDDERS).
- 9.0 Bid must be uploaded together with the Integrity Pact(*If applicable against the tender*) and the same must be duly signed digitally. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact, their bid shall be rejected straightway (Please refer Annexure III: GENERAL NOTES TO BIDDERS).
- **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 bi	d shall be rejected straightway if it does not conform to any one of the following clauses:
	a) b) c) d)	Validity of bid shorter than the validity indicated in the Tender. Incase the party refuses to sign Integrity Pact. Original Bid Security not received within the stipulated date & time mentioned in the Tender. 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.
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ANNEXURE - III

GENERAL NOTES TO BIDDERS

- **1.0** The bid is governed by GeM General Terms &Conditions (GeM GTC) prevalent on the bid closing date of tender.
- **2.0** Bidders shall submit their offer mentioning pointwise compliance/noncompliance to all the terms & conditions, BEC/BRC, Specifications etc. Any deviation(s) from the tender terms & conditions, BEC/BRC, Specifications etc. should be clearly highlighted specifying justification in support of deviation.
- **3.0** To ascertain the substantial responsiveness of the bid, OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by OIL, failing which the offer will be summarily rejected. However, bidder(s) must note that there should not be any additional financial involvement arising out of such post tender clarifications.
- 4.0 The Bidder to submit following Technical Evaluation Sheet along with technical bid -

Annexure –IV: Bid Evaluation Matrix (Technical Specification) Annexure –V: Bid Evaluation Matrix (Bid Rejection Criteria)

5.0 INTEGRITY PACT

OIL shall be entering into an Integrity Pact, **if applicable** with the bidders as per format enclosed vide **PROFORMA - D** of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact have been signed by the bidder's authorized signatory who sign the Bid. If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.

OIL's Independent External Monitors at present are as under:

DR. TEJENDRA MOHAN BHASIN, Former Vigilance Commissioner, CVC E-mail: tmbhasin@gmail.com

SHRI RAM PHAL PAWAR, IPS (Retd.), Former Director, NCRB, MHA E-mail: rpawar61@hotmail.com ramphal.pawar@ips.gov.in

SHRI AJIT MOHAN SHARAN, IAS (Retd.) Former Secretary, Ministry of Ayush, Gol

Mob No.: 9810701876 E-mail: ams057@gmail.com

- 5.1 In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact.
- 5.2 In the event of any dispute between the management and the contractor relating to those contracts where Integrity Pact is applicable, in case, both the parties are agreeable, they may try to settle dispute through mediation before the panel of IEMs in a time bound manner. If required, the organizations may adopt any mediation rules for this purpose. In case, the dispute remains unresolved even after mediation by the panel of IEMs, the organisation may take further action as per the terms and conditions of the contract.

6.0 DOMESTICALLY MANUFACTURED IRON & STEEL PRODUCTS (DMI & SP): Not Applicable

Steel Policy notified vide Notification No. 324 dated 29.05.2019 and as amended from time to time by Ministry of Steel, Government of India is applicable against this tender. The detailed policy may be referred in Ministry's website. Also, refer **ANNEXURE – VI** to this tender in this regard.

7.0 MICRO AND SMALL ENTERPRISES (MSE)

Categorisation and various Criteria applicable to MSE bidders shall be guided by the Gazette Notification No. CG-DL-E-26062020-220191 dated 26.06.2020 and Amendment vide Gazette Notification no. CG-DL-E-16062021-227649 dated 16thJune, 2021 issued by Ministry of Micro, Small and Medium Enterprises.

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

Udyam Registration Number with Udyam Registration Certificate.

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

7.1 For availing benefits under Public Procurement Policy (Purchase preference), the interested MSE Bidders must ensure that they are the manufacturer of tendered item (Primary Product Category) and registered with the appropriate authority for the said item(s).

8.0 PREFERENCE TO MAKE IN INDIA (MII)

Department for Promotion of Industry and Internal Trade (DPIIT), has issued the revised 'Public Procurement (Preference to Make in India), Order 2017" vide Order no. No. P-45021/2/2017-PP (BE-II) dated 04.06.2020. Bidders are requested to go through the policy and its subsequent amendments, if any, and take note of the same while submitting their offer.

- 8.1 The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification (PROFORMA E) that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made. Such undertaking shall become a part of the contract.
- 8.2 In cases of procurement <u>for a value in excess of Rs. 10 crores</u>, the 'Class-I local supplier' / 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
- 9.0 RESTRICTIONS ON PROCUREMENT FROM A BIDDER OF A COUNTRY SHARING LAND BORDER WITH INDIA:

 Ministry of Finance of Govt. of India, Department of Expenditure, Public procurement Division vide office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020 (order-Public Procurement no.1) has proclaimed the insertion of Rule 144 (xi) in the General Financial Rules (GFRs), 2017 w.e.f. 23rd July, 2020 and amended vide O.M. No. F.7/10/2021-PPD (1) dated 23.02.2023 (order public procurement no. 4) from Procurement Policy Division, Department of Expenditure, Ministry of Finance forwarded by Department of Public Enterprises vide O.M. No. F. No. DPE/7 (4)/2017-Fin dated 24.02.2023 regarding restrictions on procurement from a bidder of a country which shares a land border with India on the grounds of defence of India on matters directly or indirectly related thereto including national security. Bidders are requested to take note of the following clauses and submit their offers accordingly wherever applicable.
 - (1) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority [Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT)]. Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, shall also require to be registered with the same competent authority to be eligible to bid in this tender.
 - (2) "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

- (3) "Bidder (or entity) from a country which shares a land border with India" for the purpose of this Order means:
 - a. An entity incorporated, established or registered in such a country; or
 - b. A subsidiary of an entity incorporated, established or registered in such a country; or
 - An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d. An entity whose beneficial owner is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- (4) The beneficial owner for the purpose of para (3) above will be as under:
 - (i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation:

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five percent of shares or capital or profits of the company.
- b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements.
- (ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
- (iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- (iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- (v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- (5) An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- (6) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.
- (7) <u>Validity of Registration</u>: The registration should be valid at the time of submission of bid and at the time of acceptance of bid. If the bidder was validly registered at the time of acceptance/placement of order, registration shall not be a relevant consideration during contract execution.
- (8) <u>Undertaking regarding compliance</u>: The bidders are required to provide undertakings as per PROFORMA F(I), PROFORMA F(II) & PROFORMA F(III) along with their bid towards compliance of the above guidelines for participation in this tender. If the undertakings given by a bidder whose bid is accepted is found to be false, this would be a ground for debarment/action as per OIL's Banning Policy and further legal action in accordance with law.

10.0 **SETTLEMENT OF DISPUTES:**

- 10.1 <u>Arbitration (Applicable for Suppliers/Contractors other than PSU and MSME)</u>: Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties are unable to settle mutually, the same shall be referred to Arbitration as provided hereunder.
- 10.1.1 A party wishing to commence arbitration proceeding shall invoke Arbitration Clause by giving 30 days' notice to the other party. The notice invoking arbitration shall specify all the points of dispute with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter. If the claim is in foreign currency, the claimant shall indicate its value in Indian Rupee for the purpose of constitution of the arbitral tribunal.
- 10.1.2 It is agreed and undertaken by the Parties that irrespective of country of origin of the Contractor, the arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996 and under no circumstances, the proceedings shall be construed as International Arbitration.
- 10.1.3 The number of arbitrators and the appointing authority will be as under:

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

- 10.1.4 The parties agree that they shall appoint only those persons as arbitrators who accept the conditions of the arbitration clause. No person shall be appointed as Arbitrator or Presiding Arbitrator who does not accept the conditions of the arbitration clause.
- 10.1.5 If any of the Arbitrators so appointed dies, resigns, becomes incapacitated or withdraws for any reason from the proceedings, it shall be lawful for the concerned party/arbitrators to appoint another person in his place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his predecessor had left if both parties consent for the same; otherwise, he shall proceed de novo.
- 10.1.6 Parties agree and undertake that neither shall be entitled for any pre-reference or pendente-lite interest on its claims. Parties agree that any claim for such interest made by any party shall be void.
- 10.1.7 The arbitral tribunal shall complete the proceedings, make and publish the award within time stipulated in the Arbitration and Conciliation Act, 1996 (as amended).
- 10.1.8 If after commencement of the arbitration proceedings, the parties agree to settle the dispute mutually or refer the dispute to conciliation, the arbitrators shall put the proceedings in abeyance until such period as requested by the parties. Where the proceedings are put in abeyance or terminated on account of mutual settlement of dispute by the parties, the fees payable to the arbitrators shall be determined as under:
 - (i) 20% of the fees if the claimant has not submitted statement of claim.
 - (ii) 40% of the fees if the pleadings are complete.
 - (iii) 60% of the fees if the hearing has commenced.

- 10.1.9 Each party shall be responsible to make arrangements for the travel and stay etc. of the arbitrator appointed by it. Claimant shall also be responsible for making arrangements for travel/stay arrangements of the Presiding Arbitrator and the expenses incurred shall be shared equally by the parties.
 - In case of sole arbitrator, both parties shall equally share all expenditures that may be required to be incurred.
- 10.1.10 The fees and other administrative/secretarial expenses of the arbitrator(s) shall not exceed the model fee as stipulated in Schedule of the Act and such expenses shall be equally borne by the parties.
- 10.1.11 The Place/Seat of Arbitration shall be Guwahati or the place where the contract is executed. The venue of the arbitration shall be decided by the Arbitrator(s) in discussion with the parties. The cost of arbitration sittings shall be equally borne by the parties.
- 10.1.12 The Arbitrator(s) shall give reasoned and speaking award and it shall be final and binding on the parties.
- 10.1.13 Subject to aforesaid, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof shall apply to the arbitration proceedings under this clause.

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

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

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

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

10.4 Resolution of disputes through conciliation by OEC

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

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

- 10.4.1 The party desirous of resorting to conciliation shall send a notice of 30 (thirty) days to the other party of its intention of referring the dispute for resolution through OEC. The notice invoking conciliation shall specify all the points of disputes with details of the amount claimed to be referred to OEC and the party concerned shall not raise any new issue thereafter.
- 10.4.2 OIL shall nominate three outside experts, one each from Financial/commercial, Technical and Legal fields from the Panel of Outside Experts maintained by OIL who shall together be referred to as OEC (Outside Experts Committee).
- 10.4.3 Parties shall not claim any interest on claims/counterclaims from the date of notice invoking conciliation till execution of settlement agreement, if so, arrived at. In case, parties are unable to reach a settlement, no interest shall be claimed by either party for the period from the date of notice invoking conciliation till the date of OEC recommendations in any further proceeding.
- 10.4.4 The Proceedings of the OEC shall be broadly governed by Part III of the Arbitration and Conciliation Act, 1996 including any modifications thereof. Notwithstanding above, the proceedings shall be summary in nature and Parties agree to rely only upon documentary evidence in support of their claims and not to bring any oral evidence in the OEC proceedings.
- 10.4.5 OEC shall hear both the parties and recommend possible terms of settlement between the parties. The recommendations of OEC shall be non-binding and the parties may decide to accept or not to accept the same. Parties shall be at liberty to accept the OEC recommendation with any modification they may deem fit.
- 10.4.6 Where recommendations are acceptable to both the parties, a settlement agreement will be drawn up in terms of the OEC recommendations or with such modifications as may be agreed upon by the parties. The settlement agreement shall be signed by both the parties and authenticated by all the OEC members either in person or through circulation. This settlement agreement shall have the same legal status and effect as that of an arbitration award on agreed terms on the substance of the dispute rendered by an arbitral tribunal under Section 30 of the Arbitration and Conciliation Act, 1996.
- 10.4.7 OIL will share all other guidelines regarding reconciliation through OEC with the Contractor when it resorts to settlement through OEC. Both parties agree to adhere to these guidelines.
- 10.4.8 All the expenditure incurred in the OEC proceedings shall be shared by the parties in equal proportion. The parties shall maintain account of expenditure and present to the other for the purpose of sharing on conclusion of the OEC proceedings.
- 10.4.9 The OEC proceedings must be completed within a period of 3(three) months from the date of constitution of the OEC with a provision of extension of one months, subject to mutual agreement. The Place of OEC shall be either at New Delhi or Guwahati.
- 10.4.10 If the parties are not able to resolve the dispute through OEC or do not opt for conciliation through OEC, the party may invoke arbitration clause as provided in the contract.
- 10.4.11 The parties shall be represented by their in-house employees/executives. No party shall bring any advocate or outside consultant/advisor/agent. Ex-officers of OIL who have handled the matter in any capacity directly or indirectly shall not be allowed to attend and present the case before OEC on behalf of Contractor. However, ex-employees of parties may represent their respective organizations.
- 10.4.12 Solicitation or any attempt to bring influence of any kind on either OEC Members or OIL is completely prohibited in conciliation proceedings and OIL reserves the absolute right to close the conciliation proceedings at its sole discretion if it apprehends any kind of such attempt made by the Contractor or its representatives.

10.5 Exclusions

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

- 10.5.1 Any claim, difference or dispute relating to, connected with or arising out of OIL's decision to initiate any proceedings or suspension or debarment or banning or decision to suspend or to ban or to debar business dealings with the bidder/Contractor and/or with any other person involved or connected or dealing with bid/contract/bidder/Contractor.
- 10.5.2 Any claim, difference or dispute relating to, connected with or arising out of OIL's decision under the provision of Integrity Pact executed between OIL and the Bidder/Contractor.
- 10.5.3 Any claim, difference or dispute relating to, connected with or arising out of OIL's decision to comply with any order or directive of any statutory or government authority.
- 10.5.4 Any claim which is less than Rs. 25 Lakh.

11.0 TAX COLLECTIBLE AT SOURCE (TCS):

Tax Collectible at Source (TCS) applicable under the Income-tax Law and charged by the SUPPLIER shall also be payable by OIL along with consideration for procurement of goods/materials/ equipment. If TCS is collected by the SUPPLIER, a TCS certificate in prescribed Form shall be issued by the SUPPLIER to OIL within the statutory time limit.

Payment towards applicable TCS u/s 206C (IH) of Income Tax Act, 1961 will be made to the supplier provided they are claiming it in their invoice and on submission of following undertaking along with the invoice stating that:

- a. TCS is applicable on supply of goods invoiced to OIL as turnover of the supplier in previous year was more than Rs. 10 Cr. And
- b. Total supply of goods to OIL in FY (As applicable) exceeds Rs. 50 Lakh and
- c. TCS as charged in the invoice has already been deposited (duly indicating the details such as challan No. and date) or would be deposited with Exchequer on or before the due date and
- d. TCS certificate as provided in the Income Tax Act will be issued to OIL in time.

However, Performance Security deposit will be released only after the TCS certificate for the amount of tax collected is provided to OIL. Supplier will extend the performance bank guarantee (PBG), wherever required, till the receipt of TCS certificate or else the same will be forfeited to the extent of amount of TCS, if all other conditions of Purchase order are fulfilled.

The above payment condition is applicable only for release of TCS amount charged by supplier u/s 206C (I H) of Income tax Act, 1961.

12.0 CONCESSIONAL GST

The items covered in this Tender shall be used by Oil India Limited in the PEL/ML areas and hence concessional **GST @12%** will be applicable as per Govt. Policy in vogue.

Note: Successful bidder shall arrange to provide all necessary documents (invoice etc.) to OIL for applying Essentiality Certificate on receipt of request from OIL or at least **45 days** prior to their readiness for despatch, whichever is earlier. Further, successful bidder shall affect dispatch only on receipt of relevant certificates/shipment clearance from OIL, failing which all related liabilities shall be to supplier's account.

13.0 APPLICABILITY OF BANNING POLICY OF OIL INDIA LIMITED:

OIL's Banning Policy, 2023 will be applicable against the tender (and order in case of award) to deal with any agency (bidder/contractor/supplier/ vendor/service provider) who commits deception, default, fraud or indulged in other misconduct of whatsoever nature in the tendering process and/or order execution processes.

The bidders who are on Holiday/Banning/Suspension list of OIL on due date of submission of bid/ during the process of evaluation of the bids, the offers of such bidders shall not be considered for bid opening/evaluation/award. If the bidding documents were issued inadvertently/downloaded from website, the offers submitted by such bidders shall also not be considered for bid opening/evaluation/ Award of Work.

13.1 The bidder shall fill up and submit proforma of declaration of Blacklisting/Holiday Listing (PROFORMA – G) along with the technical bid.

14.0 PERFORMANCE SECURITY

Successful bidder will be required to furnish a Performance Bank Guarantee @3% of the order value with validity as mentioned in the tender document. The Performance Security must be submitted exactly as per **PROFORMA – H**. Bidder must confirm the same in their Technical Bid.

The Bank Guarantee issued by the bank must be routed through SFMS platform as per the following details:

- (i) MT 760/MT 760 COV for issuance of bank guarantee.
- (ii) MT 760/MT 767 COV for amendment of bank guarantee.

[Order Number should reflect in the SFMS text under MT 760/MT 760 COV]

The above message/intimation shall be sent through SFMS by the BG issuing Bank branch to ICICI Bank, Duliajan Branch, IFSC Code- ICIC0000213, Branch Address.: ICICI Bank Ltd, Kunja Bhavan, Daily Bazaar, Duliajan, Dibrugarh, Assam - 786602. The Bank details are as under:

Bank Details of Beneficiary				
Bank Name	ICICI BANK LTD.			
Branch Name	DULIAJAN			
Branch Address	KUNJA BHAVAN, DAILY BAZAAR, DULIAJAN, DIBRUGARH, ASSAM - 786602			
IFSC Code	ICIC0000213			
Unique identifier code (Field 7037)	OIL503988890			
Company name	Oil India Limited			

The vendor shall submit to OIL the copy of the SFMS message as sent by the issuing bank branch along with the original bank guarantee.

- 14.1 Performance Security shall be issued from any scheduled Indian Bank or any branch of an International Bank situated in India and registered with the Reserve Bank of India as scheduled foreign Bank in case of domestic suppliers.
- 14.2 Bank Guarantees issued by a Bank in India should be on non-judicial Stamp Paper/Franking receipt of requisite value, as per Indian Stamp Act, purchased in the name of the Banker or the Seller.
- 14.3 Bank Guarantee with condition other than those mentioned in OIL's prescribed format shall not be accepted.
- 14.4 The Bank Guarantee issued by a Bank amongst others shall contain the complete address of the Bank including Phone Nos., Fax Nos., E-mail address, Code Nos. of the authorized signatory with full name and designation and Branch Code.
- 14.5 The Performance Security shall be payable to Purchaser as compensation for any breach or loss resulting from Supplier's failure to fulfil its obligations under the Purchase Order/Contract. In the event of such default on the part of Seller, the Performance Security shall be encashed unconditionally, and the proceeds thereof shall be forfeited without any further reference to the Seller. In such an eventuality, the Seller shall be liable to face penal actions including debarment as per OIL's Banning Policy, 2023.
- 14.6 The Performance Security shall be discharged by Purchaser not later than 30 days following its expiry after completion of obligations under the order/contract. In the event of any extension to the contractual validity or delay in supply/ execution or extension of Warranty Period of the Purchase Order/Contract, validity of the Performance Security shall be extended by the Seller/Contractor by the equivalent period.
- 14.7 The Performance Security shall not accrue any interest during its period of validity or extended validity.

 OIL shall not be liable to pay any bank charges, commission or interest on the amount of Performance Security.
- 14.8 Failure of the successful Bidder to comply with the requirements of above clauses shall constitute sufficient grounds for annulment of the award and forfeiture of their Bid Security or Performance Security. The defaulting party shall also be debarred from business as per OIL's Banning Policy, 2023.

- 14.9 In case, the Performance Security in the form of a Bank Guarantee is found to be not genuine or issued by a fake banker or issued under the fake signatures, the Purchase Order placed on the bidder shall be treated as cancelled forthwith and the bidder shall be banned from participating in future tenders in accordance with the provisions of Company's Banning Policy, 2023. Further, the Bid Security submitted by such bidder shall be invoked without any further reference, besides other penal action, as the Company may think appropriate.
- 14.10 In case Annual Maintenance Contract (AMC) is required and OIL intends to enter into a separate contract with the successful bidder for AMC, the Successful bidder must undertake to submit separate Performance Security against the AMC at the applicable rate & validity to be stipulated in the contract. (3% of annualized contract value valid for three months beyond entire execution period).
- 14.11 Performance Security if submitted in the form of fixed/term deposit; the following details must be provided in the form of declaration by the vendor/party for confirmation of Term deposit/Fixed Deposit from the issuing bank.
 - (iv) Full address of the issuing bank
 - (v) Branch Code
 - (vi) Authorized signatory with full name and designation
 - (vii) Phone (Mobile) Numbers of the branch
 - (viii) Email address of the branch
 - (ix) Such fixed/term deposit must be pledged in favour of OIL and it must in the printed form on the physical original FDR in words "Pledged in favour of Oil India Limited"

Further, to avoid delay in confirmation of Fixed deposit from the issuing bank and consequent delay in processing of bills and payment, vendor/party may arrange the confirmation mail regarding issue of fixed deposit with the following details directly from bank's official email id to OIL's following e-mail id (FD PS@OILINDIA.IN):

FD NO.	Issue Date	Maturity Date	FD Amount	Beneficiary/ Contractor Name	Whether above FD is pledged in favour of 'Oil India Limited' (Yes/No)	FD amount pledged (in ₹) as per bank's books of accounts	Mode of FD Renewal (Auto Renewal/ Auto closure)	Remarks (if any) of the issuing Bank
Α	В	С	D	E	F	G	Н	I

15.0 BID SECURITY:

Bids must be accompanied by Bid Security for the amount as mentioned in the tender and shall be in the prescribed format (PROFORMA – I) as Bank Guarantee (BG) or Online payment. (Refer GeM GTC for details).

In case of the Bid Security is submitted in the form of Bank Guarantee, scanned copy of Bank Guarantee shall be uploaded by the bidder in the online bid and hard copy of the Bank Guarantee will have to be submitted directly to OIL within the Bid Closing (BC) date and time, failing which the bid may be treated as incomplete and may lead to rejection of the bid by OIL without making any reference to the bidder.

The Original Bid Security shall be submitted manually in sealed envelope **superscribed** with tender no., tendered item detail and due date to: **GM-MATERIALS, MATERIALS DEPARTMENT, KIND ATTENTION – M. B. SINGHA, CHIEF MANAGER MATERIALS, OIL INDIA LIMITED, DULIAJAN- 786602, ASSAM.**

In case of Online payment of Bid Security, bidder shall provide the Online transaction details in their online bid as proof of submission of Bid Security to OIL. The online payment of Bid Security amount should be received in OIL's bank account on or before the Bid closing date and time failing which the offer will be rejected outright without any further reference.

OIL's Bank account Details for Online submission of Bid Security				
Name	Oil India Limited			
Bank	State Bank of India			
Branch	Duliajan			

Account Number	10494832599
Account Type	Current
IFSC Code	SBIN0002053

- 15.1 Bid Security shall be issued from any scheduled Indian Bank or any branch of an International Bank situated in India and registered with the Reserve Bank of India as scheduled foreign Bank in case of domestic suppliers.
- 15.2 Bank Guarantee issued by a scheduled Bank in India at the request of some other non-scheduled Bank in India shall not be accepted.
- 15.3 Bank Guarantees issued by a Bank in India should be on non-judicial Stamp Paper/Franking receipt of requisite value, as per Indian Stamp Act, purchased in the name of the Banker or the Seller.
- 15.4 Bank Guarantee with condition other than those mentioned in OIL's prescribed format shall not be accepted.
- 15.5 The Bank Guarantee issued by a Bank amongst others shall contain the complete address of the Bank including Phone Nos., Fax Nos., E-mail address, Code Nos. of the authorized signatory with full name and designation and Branch Code.
- 15.6 The bidders will extend the validity of the Bid Security, if and whenever specifically advised by OIL, at the bidder's cost.
- 15.7 The Bid Security shall not accrue any interest during its period of validity or extended validity. OIL shall not be liable to pay any bank charges, commission or interest on the amount of Bid Security.
- 15.8 In case, the Bid Security in the form of a Bank Guarantee is found to be not genuine or issued by a fake banker or issued under the fake signatures, the bid submitted by the concerned bidder shall be rejected and the bidder shall be banned from participating in future tenders in accordance with the provisions of OIL's Banning Policy. Further, the Bid Security submitted by such bidder shall be invoked without any further reference, besides other penal action, as OIL may think appropriate.
- 15.9 In case of Bank Guarantee, the Bank Guarantee issuing bank branch must ensure the following:

The Bank Guarantee issued by the bank must be routed through SFMS platform as per the following details:

- (i) MT 760/MT 760 COV for issuance of bank guarantee.
- (ii) MT 760/MT 767 COV for amendment of bank guarantee.

[Tender Number should reflect in the SFMS text under MT 760/MT 760 COV]

The above message/intimation shall be sent through SFMS by the BG issuing Bank branch to ICICI Bank, Duliajan Branch, IFSC Code- ICIC0000213, Branch Address: ICICI Bank Ltd, Kunja Bhavan, Daily Bazaar, Duliajan, Dibrugarh, Assam – 786602. The Bank details are as under:

Bank Details of Beneficiary				
Bank Name	ICICI BANK LTD.			
Branch Name	DULIAJAN			
Branch Address	KUNJA BHAVAN, DAILY BAZAAR, DULIAJAN, DIBRUGARH, ASSAM – 786602			
IFSC Code	ICIC0000213			
Unique identifier code (Field 7037)	OIL503988890			
Company name	Oil India Limited			

The bidder shall submit to OIL the copy of the SFMS message as sent by the issuing bank branch along with the original bank guarantee.

15.10 The Bid Security of the unsuccessful bidders will be returned after finalization of tender whereas the Bid Security of the successful bidder will be discharged on such bidder's furnishing the Performance Security to OIL against the Purchase Order secured by the bidder within the stipulated time frame. The successful

bidder will, however, extend validity of the Bid Security till such time the Performance Security is furnished.

15.11 For timely return of Bid Security, bidders shall submit following details alongwith their technical bid.

- For Bank Guarantee((BG): Name, Email id, Phone number and Address where the Bid Security is to be returned by Courier.
- Online payment: Name, Email id, Phone number and Bank details (Bank Name, Branch Name, Branch Address, IFSC Code, Unique identifier code, Company name) where the Bid Security amount shall be returned by Online transfer.

In case of non-submission of above details, return of Bid Security may be delayed.

16.0 FINANCING OF TRADE RECEIVABLES OF MICRO AND SMALL ENTERPRISES (MSEs) THROUGH TRADE RECEIVABLES DISCOUNTING SYSTEM (TREDS) PLATFORM.

Based on the initiatives of Government of India to help MSE vendors get immediate access to liquid fund based on Buyers credit rating by discounting, OIL has registered itself on TReDS platform with M/s RXIL and M/s A TREDS Ltd. (Invoice Mart). MSE vendors can avail this benefit by registering themselves with any of the exchanges providing e-discounting/electronic factoring services on TReDS platform and following the procedures defined therein, provided OIL is also participating in such TReDS Platform as a Buyer.

- i) MSE Vendor should be aware that all costs relating to availing the facility of discounting on TReDS platform including but not limited to Registration charges, Transaction charges for financing, Discounting Charges, Interest on financing, or any other charges known by any name shall be borne by MSE Vendor.
- ii) MSE Vendor hereby agrees to indemnify, hold harmless and keep OIL and its affiliates, Directors, officers, representatives, agents and employees indemnified, from any and all damages, losses, claims and liabilities (including legal costs) which may arise from Sellers submission, posting or display, participation, in any manner, on the TReDS Platform or from the use of Services or from the Buyer's breach of any of the terms and conditions of the Usage Terms or of this Agreement and any Applicable Law on a full indemnity basis.
- iii) OIL shall not be liable for any special, indirect, punitive, incidental, or consequential damages or any damages whatsoever (including but not limited to damages for loss of profits or savings, business interruption, loss of information), whether in contract, tort, equity or otherwise or any other damages resulting from using TReDS platform for discounting their (MSE Vendor's) invoices.

Note:

- (i) Buyer means OIL who has placed Purchase Order/ Contract on a MSE Vendor (Seller).
- (ii) Seller means a MSE vendor, who has been awarded Purchase Order/ Contract by OIL (Buyer).

17.0 UNLOADING FOR BULKY/HEAVY ITEMS:

All the Goods in the GeM shall be offered on Free Delivery at Site basis including unloading. **HOWEVER, OIL SHALL PROVIDE CRANE FOR UNLOADING OF BULKY/HEAVY ITEMS ONLY**. Supplier shall depute adequate crew, who has experience of unloading of such items at Destination (Duliajan) with necessary safety gears i.e. helmet, safety boots, hand gloves etc. at unloading point.

The safety of the crew deputed by the supplier shall entirely be the responsibility of supplier and therefore they shall take all necessary measures/precautions to ensure that no injuries occur to personnel or property. Supplier must ensure that the crew involved for unloading are properly trained on the procedures and aware of the potential hazards while handling the items.

18.0 <u>UNLOADING OF TUBULARS</u>:

All the Goods in the GeM shall be offered on Free Delivery at Site basis including unloading. HOWEVER, OIL SHALL PROVIDE CRANE FOR UNLOADING OF TUBULARS ONLY. Supplier shall depute adequate crew, who has experience of unloading of tubulars, at Destination (Duliajan) with necessary safety gears i.e. helmet, safety boots, hand gloves etc. at unloading point. <a href="https://docs.org/resource-transform-the-crew-to-be-put-to-by-the-crew-to-by-the-crew-to-be-put-to-by-the-crew-to-be-put-to-by-the-crew-to-be-put-to-by-the-crew-to-be-put-

- (a) Supplier to ensure that height of the loaded tubular is below the cabin height of the vehicle for safe off-loading.
- (b) Supplier to ensure that tubular bundles are securely fastened by very strong material to withstand the rigors of road transportation and capable of lifting by Crane. In the case tubular bundles are found loosened and/or tubulars found completely resting on the side support/bales of vehicle in way that it may free fall upon unshackling, OIL will not unload such vehicle due to safety reasons.

The safety of the crew deputed by the supplier shall entirely be the responsibility of supplier and therefore they shall take all necessary measures/precautions to ensure that no injuries occur to personnel or property. Supplier must ensure that the crew involved for unloading are properly trained on the procedures and aware of the potential hazards while handling tubulars.

19.0 UNLOADING OF CONSIGNMENT RECEIVED THROUGH RAIL:

Unloading of consignment from Railway Wagons at Destination (**Duliajan**) shall be completely in OIL's scope.

20.0 QUANTITY TOLERANCE FOR TUBULARS:

Bidders should note that, in the event of order, quantity tolerance of +0%/-2% of order quantity will be applicable, if otherwise mentioned elsewhere in this document.

21.0 <u>SET-OFF</u>:

Any sum of money due and payable to the Seller (including Security Deposit refundable to them) under any purchase order may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of a sum of money arising out of any other purchase order made by the Seller with Oil India Limited (or such other person or persons contracting through Oil India Limited).

22.0 FURNISHING FRAUDULENT INFORMATION/ DOCUMENT:

If it is found that a Bidder has furnished fraudulent document/information, the Bid Security/ Performance Security shall be forfeited and the party will be debarred for a period of 3(three) years from date of detection of such fraudulent act, besides the legal action. In case of major and serious fraud, period of debarment may be enhanced. In this regard, bidders are requested to submit an Undertaking as per **PROFORMA** - J along with their offer failing which their offer shall be liable for rejection.

23.0 MODIFICATION/AMENDMENT OF TENDER DOCUMENT: At any time prior to the deadline for submission of bids, the Company may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the tender Documents through issuance of Corrigendum(s)/Addendum(s). Bidders are expected to take the Corrigendum(s)/ Addendum(s) into account in preparation and submission of their bid. No separate intimation for Corrigendum(s)/ Addendum(s) published by OIL shall be sent to the Bidders.

24.0 GENERAL CONDITIONS OF CONTRACT FOR SERVICES (ANNEXURE—VII) Not Applicable

General Conditions of Contract FOR SERVICES (GCC - SERVICES) shall be applicable for all services to be rendered including AMC (as and when entered into).

25.0 SIGNING OF BIDS:

25.1 Bids are to be submitted online in GeM portal. The bid including all uploaded documents shall be signed by duly authorized representative of the bidder holding a Power of Attorney to bind the Bidder to the contract. The letter of authorisation (**PROFORMA-K**) shall be indicated by written Power of Attorney accompanying the Bid.

26.0 BIDDERS FINANCIAL STANDING:

The bidder should not be under liquidation, court receivership or similar proceedings and should not be bankrupt. Bidder to upload undertaking (PROFORMA-L) to this effect with bid.

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

27.1 It will be solely the Supplier's responsibility to fulfil all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely; the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is

- operating. Ensure that all sub-contractors, if any, hired by Supplier comply with the same requirement as the Supplier himself and shall be liable for ensuring compliance all HSE laws.
- 27.2 It will be entirely the responsibility of the Supplier/his Supervisor/ representative to ensure strict adherence to all HSE measures and statutory rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by company's Installation Manager/Safety Officer/Engineer/Official/Supervisor/ Junior Engineer for safe operation.
- 27.3 Any compensation arising out of the job carried out by the Supplier whether related to pollution, Safety or Health will be paid by the Supplier only.
- Any compensation arising due to accident of the Supplier's personnel while carrying out the job, will be payable by the Supplier.
- 27.5 When there is a significant risk to health, environment or safety of a person or place arising because of a non-compliance of HSE Measures, Company shall have the right to direct the Supplier to cease work until the non-compliance is corrected.

28.0 DOCUMENTATION (FOR DOMESTIC/INDIGENOUS SUPPLIERS):

- 28.1 Preparation and submission of proper documents by Seller is one of the very important requirements. The Seller must strictly follow the instructions.
- 28.2 Seller shall ensure that all the documents have clear reference of OIL's Purchase Order number.
- 28.3 Seller shall forward the documents, as mentioned below, by courier service immediately after the dispatch is made:

1. WHERE PAYMENT AGAINST DIRECT SUBMISSION OF DESPATCH DOCUMENTS TO COMPANY:

A)	General Manager (A/P),	i)	Bill in original + one copy.
	Finance & Accounts Department	ii)	Copy of the C-Note/RR.
	Oil India Limited, Duliajan,	iii)	Copy of Mill Inspection Certificate, if any.
	PIN - 786602	iv)	Copy of Third-Party Inspection Certificate, if any.
		v)	Copy of Delivery Challan.
		vi)	Copy of TPI Declaration
		vii)	Copy of Tax Invoice.
		viii)	Copy of packing list.
		ix)	Documentary evidence of payment of Customs
			Duty, if any.
B)	DGM - Materials (Receiving),	i)	Clear Consignee copy of RR/C-Note-Original+1
	Materials Department		copy.
	Oil India Limited, Duliajan,	ii)	Copy of Tax Invoice.
	PIN - 786602	iii)	Delivery Challan (Original).
		iv)	Packing list (Original).
		v)	Mill inspection certificate, if any (Original).
		vi)	Copy of Third-Party Inspection certificate, if any.
		vii)	Copy of TPI Declaration
		viii)	Warranty Certificate (Original)
C)	Chief Manager Materials (FP)	One	set consisting copies of all the
	Materials Department	docu	ments as mentioned in (B) above.
	Oil India Limited, Duliajan,		
	PIN - 786602		

Note: Where payment is after receipt and acceptance of materials i.e. after CRAC, the complete set of documents meant for General Manager (A/P) as indicated in(A) above should be submitted to Dy. General Manager Materials (Receiving).

PROFORMA - A

FORMAT FOR CERTIFICATE OF COMPLIANCE OF FINANCIAL CRITERIA (ON THE OFFICIAL PAD OF THE BIDDER TO BE EXECUTED BY THE AUTHORIZED SIGNATORY OF THE BIDDER)

	nuse No. A.2 (3.0) - Financial Criteria of the BEC No.:	
	the authorized signatory(s) of ess) do hereby affirm and declare as under:-	(Company or firm name
	ance sheet/Financial Statements for the financial year not been audited as on the Original Bid closing Date.	(as the case may be) has
	 ry	Signature of the authorized
<u>Note</u> :	This certificate are to be issued only considering the ti Statements i.e. if the last date of preceding financial / acc months reckoned from the original bid closing date.	

PROFORMA – B

CERTIFICATE OF ANNUAL TURNOVER & NETWORTH

TO BE ISSUED BY PRACTISING CHARTERED ACCOUNTANTS' FIRM ON THEIR LETTER HEAD **TO WHOM IT MAY CONCERN** This is to certify that the following financial positions extracted from audited financial statements of M/s...... (Name of the bidder) for the last 3 (three) completed accounting years upto.....(as the case may be) are correct. TURNOVER **NET WORTH YEAR** In INR (Rs.) Crores/ In INR (Rs.) Crores / **USD Million* USD Million*** *Rate of conversion (if used any): USD 1.00 = INR Place: Date: Seal: Membership No.: Registration Code: Signature:

NOTE: As per the guidelines of ICAI, every practicing CA is required to mention Unique Document Identification Number (UDIN) against each certification work done by them. Documents certified by CA without UDIN shall not be acceptable.

^{*}Applicable for Global Tenders.

PROFORMA - C

PARENT/ ULTIMATE PARENT/ HOLDING COMPANY'S CORPORATE GUARANTEE TOWARDS FINANCIAL STANDING (Delete whichever not applicable) (TO BE EXECUTED ON COMPANY'S LETTER HEAD)

DEED OF GUARANTEE

PROFORMA - D

INTEGRITY PACT

Between

Oil India Limited (OIL) hereinafter referred to as "The Principal"

And

(Name of the bidder).....hereinafter referred to as "The Bidder/Contractor"

Preamble:

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organization "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section: 1 - Commitments of the Principal

- (1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (i) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
 - (ii) The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.
 - (iii) The Principal will exclude from the process all known prejudiced persons.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officers and in addition can initiate disciplinary actions.

Section: 2 - Commitments of the Bidder/Contractor

- (1) The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - (i) The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which h e/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - (ii) The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, Subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

- (iii) The Bidder (s) / Contractor (s) will not commit any offence under the relevant Anticorruption Laws of India, further, the Bidder (s) / Contractor (s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- (iv) The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- (v) Bidders to disclose any transgressions with any other company that may impinge on the anticorruption principle.
- (vi) The Bidder (s)/ Contractor (s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder (s)/ Contractor (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further, all the payments made to the Indian agent/ representative have to be in India Rupees only.
- (vii) Bidders not to pass any information provided by Principal as part of business relationship to others and not to commit any offence under PC/ IPC Act;
- (2) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- The Bidder/Contractor signing Integrity Pact shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter.

Section 3 - Disgualification from tender process and exclusion from future Contracts

If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or risibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

- 1. If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.
- 2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
- 3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.
- 4. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.
- 5. Integrity Pact, in respect of a particular contract, shall be operative from the date Integrity Pact is signed by both the parties till the final completion of the contract **or as mentioned in Section 9-Pact Duration whichever is later**. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings. Any issue relating to execution of contract, if specifically raised before the IEMs shall be looked into by IEMs.

Section 4 - Compensation for Damages

- (1) If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to Earnest Money Deposit / Bid Security.
- (2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to Security Deposit / Performance Bank Guarantee.
- (3) The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 - Previous transgression

- (1) The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section: 6 - Equal treatment of all Bidders/Contractor/Subcontractors

- (1) The Principal will enter into Pacts on identical terms with all bidders and contractors.
- The Bidder / Contractor undertake(s) to procure from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the provisions laid down in this agreement/Pact by any of its sub-contractors/sub-vendors.
- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section: 7 - Criminal charges against violating Bidders/Contractors/ Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section: 8 -External Independent Monitor/Monitors

- (1) The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.
- The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.

- (4) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the Independent External Monitor shall give an opportunity to the bidder / contractor to present its case before making its recommendations to the Principal.
- (6) The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
- (7) If the Monitor has reported to the Chairperson of the Board a Substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- (8) The word 'Monitor' would include both singular and plural.
- (9) In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.

Section: 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairperson of the Principal.

Section: 10 - Other provisions

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
- (2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- If the Contractor / Bidder is a Joint Venture or a partnership concern or a consortium, this agreement must be signed by all partners or consortium members. In case of sub-contracting, the Principal contractor shall take the responsibility of the adoption of IP by the sub-contractor and all sub-contractors shall also sign the IP.
- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
- (5) Issues like warranty / guarantee, etc. shall be outside the purview of IEMs.

M. B. SINGHA	
For the Principal	For the Bidder/Contractor

Date:	Witness 1:
Place: Duliajan	Witness 2:

PROFORMA – E

<u>UNDERTAKING FOR LOCAL CONTENT</u> (To be submitted in the letter head of the bidder)

We,	(Name o	of the bidder) have submitted Bid against
Tender No	dated	of Oil India Limited.
We hereby undertake that we meet	the mandatory minimum local co	ntent requirement as per the provision of
Public Procurement (Preference to	Make in India) Order, 2017 of De	epartment for Promotion of Industry and
Internal Trade (DPIIT), Govt. of India	as revised vide Order No. P45021	L/2/2017-PP (BE-II) dated 16th September
2020 (and as amended time to time) with modifications as notified vi-	de MoP&NG Order No. FP-20013/2/2017-
FP-PNG-Part (4) (E-41432) dated 26th	n April 2022. The percentage of Loc	cal Content in the bid is %.
	For and on behalf o	of
	Authorized signator	γ
	Contact No	

PROFORMA - F(I)

<u>UNDERTAKING TOWARDS COMPLIANCE OF PROVISIONS FOR RESTRICTIONS ON PROCUREMENT FROM A BIDDER OF A COUNTRY WHICH SHARES LAND BORDER WITH INDIA</u>

(To be typed on the letter head of the bidder)

Ref. No	Date:
Tender NoDate:	_
OIL INDIA LIMITED MATERIALS DEPARTMENT, DULIAJAN, ASSAM, INDIA	
Dear Sirs,	
a country which shares a land border with India; we cer a country, have been registered with the Competent Au	regarding restrictions on procurement from a bidder of tify that we are not from such a country/or if from such thority. We hereby certify that we fulfil all requirements erever applicable, evidence of valid registration by the
Yours faithfully, For (type name of the firm here)	
Signature of Authorised Signatory Name: Designation: Phone No. Place: Date: (Affix Seal of the Organization here, if applicable)	

PROFORMA – F(II)

UNDERTAKING FOR WORKS INVOLVING POSSIBILITY OF SUB-CONTRACTING

(To be typed on the letter head of the bidder)

Ref. No	Date:
Tender NoDate:	-
OIL INDIA LIMITED MATERIALS DEPARTMENT, DULIAJAN, ASSAM, INDIA	
Dear Sirs,	
We, M/s, have read the clause a country which shares a land border with India and on certify that we are not from such a country/or if from su Authority and will not sub-contract any work to a con registered with the Competent Authority. We hereby ce eligible to be considered. [wherever applicable, evidence be attached]	sub-contracting to contractors from such-countries, we ch a country, have been registered with the Competent stractor from such countries unless such contractor is rtify that we fulfil all requirements in this regard and is
Yours faithfully, For (type name of the firm here)	
Signature of Authorized Signatory Name: Designation: Phone No. Place: Date: (Affix Seal of the Organization here, if applicable)	

PROFORMA – F(III)

ADDITIONAL UNDERTAKING BY BIDDER IN CASES OF SPECIFIED TRANSFER OF TECHNOLOGY

(To be typed on the letter head of the bidder) Ref. No_____ Date:____ Tender No. Date: **OIL INDIA LIMITED** MATERIALS DEPARTMENT, **DULIAJAN, ASSAM, INDIA** We, M/s , have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. We certify that we do not have any ToT arrangement requiring registration with the competent authority. OR We, M/s ______, have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. We certify that we have valid registration to participate in this procurement. [Evidence of valid registration by the Competent Authority shall be attached] Yours faithfully, For (type name of the firm here) Signature of Authorised Signatory Name: Designation: Phone No. Place: Date: (Affix Seal of the Organization here, if applicable)

PROFROMA – G

PROFORMA OF DECLARATION OF BLACKLISTING / HOLIDAY LISTING

GM- MATERIALS MATERIALS DEPARTMENT P.O. DULIAJAN, PIN-786602

DIST. DIBRUGARH, ASSAM, INDIA

TO,

Dear Sir,			
Sub: OIL's Tender No			

We hereby declare that we are presently neither placed on any holiday list or blacklist declared by OIL India Limited, nor any inquiry is pending by Oil India Limited in respect of corrupt or fraudulent practice.

It is understood that if this declaration is found to be false in any particular, Oil India Limited shall have the right to reject my/our bid, and if the bid has resulted in a contract, the contract is liable to be terminated without prejudice to any other right or remedy (include blacklisting or holiday listing) available to Oil India Limited.

For and on behalf of Authorized signatory	
Name	
Designation	
Contact No.	

PROFORMA – H

FORMATFORPERFORMANCEBANKGUARANTEE

To,
GENERAL MANAGER – MATERIALS (HOD)
OIL INDIA LIMITED, MATERIALS DEPARTMENT,
DULIAJAN, ASSAM, INDIA, PIN – 786602

WHF	EAS(Name and address of Contractor)
	nafter called "Contractor") had undertaken, in pursuance of Contact No to
	te (Name of Contract and Brief Description of the Work)
	nafter called "the Contract").
(IICIC	indictive conduct j.
	WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank
Guara	ntee as security for compliance with Contractor's obligations in accordance with the Contract.
AND '	VHEREAS we (May incorporate the Bank Name) have agreed to give the Contractor such a Bank Guarantee; NOW
	FORE we hereby affirm that we are Guarantors on behalf of the Contractor, up to a total of (Amount of
	ntee in figures) (in words
), such amount being payable in the types and proportions of currencies in which the Contract price is
	le, and we undertake to pay you, upon your first written demand and without cavil or arguments, any sum or
	within the limits of guarantee sum as aforesaid without your needing to prove or to show grounds or reasons for
-	lemand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the
Contr	actor before presenting us with the demand.
₩o fı	rther agree that no change or addition to or other modification of the terms of the Contract or the work to be
	med thereunder or of any of the Contract documents which may be made between you and the Contractor shall
	way cease us from any liability under this guarantee, and we hereby waive notice of such change, addition or
	cation.
This g	uarantee is valid until theday ofday of
The d	etails of the Issuing Bank and Controlling Bank are as under:
	ssuing Bank:
	BANK FAX NO:
	BANK EMAIL ID:
	BANK TELEPHNE NO:
	FSC CODE OF THE BANK:
2.	Controlling Office:
	Address of the Controlling Office of the BG issuing Bank:
	Name of the Contract Person at the Controlling Office with Mobile No. and e-mail address:
ľ	otwithstanding anything contained herein:
(Our liability under this Bank Guarantee shall is restricted up to Rs
() This guarantee shall be valid till
(We are liable to pay the guarantee amount or any part thereof under this Bank Guarantee only and only if you
	serve upon us a written claim or demand on or before(Date of Expiry of BG PLUS
	one year claim period).
(I) At the end of the claim period that is on or after(Date of expiry
	ofthe Bank Guarantee Plus Minimum of 1 year claim period shall be stipulated) all
	your rights under this Guarantee shall stand extinguished and we shall be discharged from all our liabilities
	under this Guarantee irrespective of receipt of original Bank Guarantee duly discharged, by Bank.

Name of the Contact Person at the Controlling Office with Mobile No. and e-mail address:

_	
Addicis	
UNDERTAKING BY V	VENDOR ON SUBMISSION OF BANK GUARANTEE
То,	
Oil India Limited,	
Materials Department,	
Duliajan, Assam - 786602	
We. M/s	are submitting the Bid Security/Performance Security (strike
	of Oil India Limited, Duliajan in the form of bank guarantee bearing
	valid
up to as per terms and	conditions of Tender / Contract No
BG issuing bank details:	
Bank:	
Branch:	
IFS Code:	
Contact Details	
E-mail Addresses:	Mobile No.: Telephone
	No.: Fax No.:
Correspondence Address	
	State: Country:
H No./Street/City:	Pin Code:
	Fill Code.
<u>Declaration</u> :	
We have arranged to send the confirmati	ion of issuance of the bank guarantee via SFMS portal through our
_	ne tender and hereby confirming the correctness of the details
mentioned.	. 5
	Authorized Signature:
	Name:
	Vendor Code:
	Email ID:
	Mobile No.:

Enclosure: Original bank guarantee

PROFORMA - I

BID SECURITY FORM

To:
M/s. OIL INDIA LIMITED,
MATERIALS DEPARTMENT

Whereas	(hereinafter called 'the Bidder') has
submitted their Bid No	dated against OIL INDIA LIMITED, DULIAJAN,
ASSAM, INDIA (hereinafter called the	Purchaser) 's Tender Nofor the
supply of	
'the Bid')KNOW ALL MEN by these prese	ents.
	having our registered
office at	(hereinafter called 'the Bank') are
bound unto the Purchaser, in the sum	of
for which payment well and truly to bassigns by these presents.	e made to the said Purchaser, the Bank binds itself, its successors and
Sealed with the said Bank this	day of
THE CONDITIONS of this obligation are:	
1. If the Bidder withdraws their Bid duri or	ng the period of Bid validity specified by the Bidder,
2. If the Bidder, having been notified ovalidity:	of the acceptance of their bid by the Purchaser during the period of bid
a) fails or refuses to accept the	order; or
b) fails or refuses to furnish the or	performance security
3. If the Bidder furnishes fraudulent doc	ument/information in their bid.
of letter /fax/Email) without the Purch	up to the above amount upon receipt of their first written demand (by way aser having to substantiate their demand, provided that in their demand unt claimed by it is due to it owing to the occurrence of any of the dition or conditions.
=	to and including (Bidder to indicate er), and any demand in respect thereof should reach the Bank not later
The details of the Issuing Bank and Cont	rolling Bank are as under:
Δ Issuing Bank	

B. Controlling Office:

BANK FAX NO: BANK EMAIL ID: BANK TELEPHONE NO.: IFSC CODE OF THE BANK:

Address of the Controlling Office of the BG issuing Bank:

SIGNATURE AND SEAL OF THE GUARANTORS ______

Designation: _____
Name of Bank: _____
Address: _____

Date: ______Place: _____

PROFORMA - J

FORMAT OF UNDERTAKING BY BIDDERS TOWARDS SUBMISSION OF AUTHENTIC INFORMATION/DOCUMENTS

(To be typed on the letter head of the bidder)

Ref. No	Date
То,	
10,	
General Manager (Materials) Materials Department	
Oil India Limited, Duliajan	
Sub: Undertaking of authenticity of information/documents s	ubmitted
Ref: Your tender No Dated	
Sir,	
With reference to our quotation no date hereby undertake that no fraudulent information/documents h	• •
neresy undertake that no haddalent information, documents i	lave been submitted by us.
We take full responsibility for the submission of authentic infor	mation/documents against the above cited bid.
We also agree that, during any stage of the tender/contract	t agreement in case any of the information/documents
submitted by us are found to be false/forged/fraudulent, OIL h	
of our EMD and/or PBG and/or cancel the award of contract a	and/or carry out any other penal action on us, as deemed
fit.	
Yours faithfully, For (type name of the firm here)	
For (type hame of the firm here)	
Signature of Authorised Signatory	
Name:	
Designation:	
Phone No.	
Place: Date:	
Dutc.	
(Affix Seal of the Organization here, if applicable)	

<u>PROFORMA – K</u>

LETTER OF AUTHORITY

TO, **GM- MATERIALS MATERIALS DEPARTMENT** P.O. DULIAJAN, PIN-786602 DIST. DIBRUGARH, ASSAM, INDIA Dear Sir, Sub: OIL's Tender No. _____ _____of____ _____ (Name and address) is confirm that Mr. authorised to represent us to Bid, negotiate and conclude the agreement on our behalf with you against OIL's _____for any commercial /Legal purpose etc. We confirm that we shall be bound by all and whatsoever our said representative shall commit. Authorised Person's Signature: _____ Yours faithfully, Signature: _____ Signature: ______Name & Designation: ______ For & on behalf of: _____

Note: This letter of authority shall be on printed letter head of the Bidder and shall be signed by a person competent and having the power of attorney (power of attorney shall be annexed) to bind such Bidder.

PROFORMA - L

UNDERTAKING FOR BIDDERS FINANCIAL STANDING

TO,

GM- MATERIALS

MATERIALS DEPARTMENT P.O. DULIAJAN, PIN-786602 DIST. DIBRUGARH, ASSAM, INDIA	
Dear Sir,	
Sub: OIL's Tender No	
We.	(Name of the bidder) have submitted Bid against Tender No.
dated we are not under liquidation, court receivership or	of Oil India Limited. We hereby undertake that
	For and on behalf of
	Authorized signatory
	Name
	Designation
	Contact No

PROFORMA - M

EXCEPTION / DEVIATION PROFORMA

Oil India Limited expects the bidders to fully accept the terms and conditions of the bidding documents. However, should the bidder experience some exception and deviations to the terms of the bidding documents, the same should be indicated here and put in unpriced bid. In order to be considered responsive, Bidder's offer must specifically include the following statement:

(a) We certify that our offe	r complies with all NIT	requirements and s	pecifications wi	ithout any deviations.

Or

(b) We certify that our offer complies with all NIT requirements and specifications with the following deviations:

Clause No. of Bidding Document	Full compliance/ not agreed	Exception/ deviations taken by the Bidders	Remarks

Signature of the Bidder:	
Name:	

Seal of the company

PROFORMA - N

PROFORMA OF AUTHORISATION LETTER FOR ATTENDING TENDER OPENING

Ref No.	Date:			
TO, GM- MATERIAI MATERIALS DE P.O. DULIAJAN DIST. DIBRUGA	PARTMENT			
Dear Sir,				
Sub: OIL's Tend	ler No			
	represent us during b			
				Yours Faithfully,
		Name: Signature of Bidd Name:	er:	

Note: This letter of authority shall be on printed letter head of the Bidder and shall be signed by a person who signs the bid.

<u>ANNEXURE – IV</u>

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED)		
	TECHNICAL SPECIFICATIONS		
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
1.0	Design, Manufacture, unitization, and supply of a New Modern Truck Mounted Horizontal Mobile Steam Generator (MSG) unit as per following specifications:		documentary evidence;
2.0	SCOPE OF WORK		
2.1	To design and manufacture the Mobile Steam Generator.		
2.2	To procure and supply truck chassis as per specification furnished in para 4.0 for mounting the Mobile Steam Generator Unit.		
2.3	To unitize and install the steam generator unit on the truck chassis and to construct a weatherproof housing on the truck platform as detailed at para 5.0 below.		
2.4	a) To furnish necessary certificate/documents from competent Government authority and obtain permission from IBR, Assam for operating the boiler in OIL's operational area.		
2.4	(b) To provide documents as mentioned in Para 14.0 for registration of the complete unit in the name of M/S Oil India Limited, Duliajan.		
2.5	To commission the unit at site operating at the rated capacity and desired conditions to OIL's satisfaction.		
2.6	To furnish five (05) copies of detailed operating and servicing manuals for smooth operation and maintenance of the unit. (Additionally, one soft copy)		
3.0	TECHNICAL SPECIFICATIONS : Detailed technical specifications of the Mobile Steam Generator are as under.		
3.1	BOILER/STEAM GENERATOR: The boiler shall have the following features.		
3.1.1	Duty Conditions: The boiler shall meet the following duty & working condition.		
	Steam output capacity: 1000 kg/hr dry & saturated Steam at 100 Deg C. Max. Working pressure: 42.2 Kg/sq.cm (600 psig) (Maximum) Max. Steam temperature: 253 Deg C.		

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS		
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
	Max. Time allowed to generate: Max. 5 minutes. Steam at the rated output & Pressure of 42.2 kg/sq.cm from cold start. Design code: IBR 1950 with latest amendments/ASME.		
3.1.2	Type: Fully automatic, Oil fired, once through, water tube, coil type, laterally wound, force circulation, forced draft, 3 pass design horizontal type.		
3.1.3	<u>Design code of Pressure parts</u> : The pressure parts must be designed & made as per latest edition of ASME/IBR - 1950 code.		
3.1.4	<u>Coil Tube design</u> : The boiler has two concentric helical, closed pitch coils fabricated out of carbon steel, seamless tubes. The coils are connected to form continuous flow passage. This coil assembly is kept inside a shell assembly. The unit is horizontally mounted on a skid. Removable refractory cover mounted on the jacket covers the front of the unit. The pressure parts including inner and outer coils must be made out of seamless boiler quality alloy steel tube suitable for high temperature & pressure service.		
	The coil shall be technically wound with closed pitch except at the entrance of each pass. The winding shall be done in cold condition and the ovality of the tubes shall be within tolerable limits. The tubes shall be 100% radiographed at all circumferential welds before winding and the coils are fully stress relieved at elevated temperature as per IBR code requirement. The coil ends shall be flanged joined and independent of the feed water and main steam header. That is, replacement or maintenance of the tube bundle shall be independent of the headers.		
3.1.5	Shell Design: The shell assembly comprises of a double shell arrangement containing the pressure parts as described above and to preheat the combustion air between the shells along with suitable radiator to reflect radiant heat to the convection zones. Necessary refractory work at the burner and far end shall be provided, using proper quality materials. The far end shell must be independent of the coil bundle. That is, the far end wall should be easily removable without disturbing the coil for maintenance. The shell shall be provided with a peephole for visual inspection of fire.		

	BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED)		
	TECHNICAL SPECIFICATIONS		
			TO BE FILLED BY THE BIDDER
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not	Relevant Location of their Bid to support the remarks/compliance
		Applicable)	(Reference of Document name / Serial number / Page number of bid for documentary evidence)
3.1.6	<u>Fuel</u> : The fuel for generating steam should be high-speed diesel (HSD). The bidder shall indicate the gross calorific value of the fuel and fuel consumption per hour at rated output.		
3.1.7	Feed water quality: The bidder shall specify the feed water quality for smooth and efficient operation of the unit.		
	inline diesel engine of suitable HP for continuous running (24 Hrs.) with an overload capacity of 10% for a period not exceeding one Hour in any 12 hours running when running at 1500 R.P.M. as per site conditions given below and shall conform to specifications IS:10000/BS:5514. The Governing is to be in accordance with Class A-2 specifications to IS: 10000/BS: 5514.		
	Maximum Temperature : 40° C		
	Minimum Temperature : 5º C		
	Maximum Relative Humidity at 35 º C : 95%		
	Maximum Altitude above mean Sea Level : 150 M		
	HSD conforming to IS: 1593:1982 and having the following specifications:		
	Cetane number : 42.5 Gross calorific Value : 19480 BTU/CFT (10000 CAL/GM)		
	The engine should be of reputed manufacturer like KIRLOSKAR/RUSTON/ CUMMINS/ CATERPILLAR / GREAVES, complete with, charging alternator, electrical self-starter with suitable maintenance free battery, drive pulley for power take off, air cleaner, fuel filter & speed regulator to run (a) air blower (b) fuel pump, (c) feed water pump and (d) Charging alternator of the Mobile Steam Generator. Belt guard shall be provided on all the V-belt assemblies. A suitably selected flexible coupling should be incorporated to transfer power from the engine to the Alternator.		

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS		
			TO BE FILLED BY THE BIDDER
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	Relevant Location of their Bid to support the remarks/compliance
		Аррисавіе)	(Reference of Document name / Serial number / Page number of bid for documentary evidence)
	Suitable PESO spark arrestor with silencer along with necessary piping covered with exhaust lagging shall be provided at the engine exhaust and the engine exhaust shall be provided outside the boiler hut and it shall be suitably insulated.		
	The engine shall have minimum 20% reserve HP. Power balance for the unit i.e., generation and consumption of power shall be clearly indicated in the bid. Alternative arrangement shall be provided for manual starting of the engine. The engine shall be firmly anchored to the skid, using vibration isolator of reputed make.		
	The minimum requirements for the engine shall be as below –		
a.	Suitable diesel engine of adequate power and conforming to –		
i.	The emission limit of the Diesel engine of the generating set must comply with the latest CPCBIV + norms or as notified by Govt. of India as per G.S.R. 436(E). –sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government (Govt. of India) and subsequent notifications as applicable.		
ii.	The offered Engine of the DG set should have valid Conformity of Production Verification for Emission Compliance from Certification Agencies as per latest CPCB IV+ notification. A copy of the same has to be furnished along with the offer.		
iii.	The offered DG sets should be enclosed in Acoustic Enclosure mounted on to common base frame with provision of easy portability of the whole generating set. The maximum permissible sound pressure level for the diesel generator (DG) sets should be 75 dB(A) at 1 meter away from the enclosure surface and must conform to the latest CPCB norms.[As notified by Environment (Protection) second Amendment Rules vide GSR 371(E), dated 17th May 2002 at serial no.94 and its amendments vide GSR No 520(E) dated 1st July 2003; GSR 448(E), dated 12th July 2004; GSR 315(E) dated 16th May 2005; GSR 464(E) dated 7th August 2006; GSR 566(E) dated 29th August 2007 and GSR 752(E) dated 24th October 2008; G.S.R. 215 (E), dated 15th March, 2011 under the Environment (Protection) Act, 1986)]		
iv.	The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCB IV+ notification for Noise Limit. A copy of the same has to be furnished along with the		

BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED) **TECHNICAL SPECIFICATIONS** TO BE FILLED BY THE **BIDDER Relevant Location of their BIDDER'S RESPONSE** Bid to support the Clause (Complied / Not remarks/compliance Description Complied/Deviation / Not No Applicable) (Reference of Document name / Serial number / Page number of bid for documentary evidence) offer. [Certification agencies/Authorised agencies of certification are- 1) ARAI, Pune, 2) Naval Science & Technology Laboratory, Visakhapatnam, 3). Fluid Control Research Institute, Palghat, 4) National Aerospace Laboratory, Bangalore, 5) International Centre for Automotive Technology, Manesar, Haryana, 6) National Test House (Northern Region), Ghaziabad, Uttar Pradesh]. The engine shall be complete with Digital / manual Tachometer & Hour meter in addition to all standard Lube oil b. pressure gauges & meters, starting switch, ignition switch, ammeter, filters, spark arrestor etc. Emergency/Safety engine shutdown system in case of Low lubricating oil pressure &over speed should be provided. Anti-vibration mountings and Engine "Low Lube Oil Pressure" indication display red lamp should also be provided. 12 V engine electric starter (Lucas or Delco Remy make) with heavy duty maintenance free battery enclosed in a c. safety enclosure, engine mounted Battery charging Alternator (Make: LUCAS TVS or equivalent reputed make) and Starting ring fitted to the Engine Flywheel should be provided. The Fuel System should comprise of Mechanical Governor, Fuel Injectors, Fuel Pump, Fuel Filter Assembly, Fuel d. lines and Fuel Tank having storage capacity to meet the Fuel requirements of 12 hours of full load operations. The connection from the fuel tank to the pump to be made using appropriate flexible hose to avoid shaking and damage of the same instead of completely rigid connection. The engine with all other accessories, tanks, etc. shall be installed on a suitable skid equipped with lifting lugs for e. lifting of the complete unit. The skid shall have provision to facilitate installation of the same on a truck platform. Lubricating System: The Lubricating System should comprise of Gear driven lubricating Oil Pump, Lubricating Oil f. Filter with a replaceable Filter Element, Lubricating Oil Cooler, Lubricating Oil Pan, Oil level dipstick and Crankcase breather. Engine to be supplied with standard painting and it should have SAE standard rotation. g. **NOTE**: The bidder should submit the following information along with relevant performance rating curves and engine product catalogues.

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS		
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
	 (i) Gross HP developed at rated RPM. (ii) Deduction of blower fan, charging alternator and other ancillary equipment. (iii) Net HP developed at rated RPM. (iv) Fuel consumption at rated power as 110%, 75%, and 50% of rated load. In case of above system, the alternator, its control panel, lighting scheme, earthing scheme, electrical works & cabling etc. will be as per clause (3.1.9) – A/B//E/F/G below. 		
3.1.9	ELECTRICAL SYSTEM All pumps & blower will be electrical motor driven. The details of electrical system & devices are as under:		
A.	ALTERNATOR: Power for all electrical equipment inside the MSG unit shall be provided by an air-cooled diesel engine driven (as mentioned in 3.1.8 above) acoustically enclosed 3 – phase alternator. Air blower, fuel pump, feed water pump shall be driven by directly coupled electric motors. The alternator prime mover/engine shall have all the features of the engine stated above. The continuous alternator KVA output at 40 deg C ambient shall be 20% more than the sum of starting KVA of the largest motor and the maximum total running KVA of other electrical equipment (except the largest motor). The engine shall be able to provide the required power during motor starting & running. The engine output rating shall be on continuous basis at 40 deg C ambient and at rated alternator output KW. The engine & alternator rated output on continuous basis shall be at least 20% more than the continuous running electrical load. The bidder shall submit detail calculations for KVA rating of alternator & KW rating of the engine along with the bid.		
	Alternator shall conform to IS: 13364/IEC 60034.		
	The alternator shall meet the following technical specifications and conform to relevant BIS.		

	BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED)				
	TECHNICAL SPECIFICATIONS				
	TECHNICAL SI ECINICATIONS				
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	Relevant Location of thei Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)		
	1. Rated voltage: 415V (+/-) 6% AC.		,		
	2. Rated frequency: 50 Hz (+/-) 3%, 1500 RPM				
	3. Phase system: 3 phase, 4 wires.				
	4. Power factor: 0.8 lagging.				
	5. Class of insulation for stator, rotor: F/H.				
	6. Phase sequence: UVW.				
	7. Rating: Continuous.				
	8. Connection: Star.				
	9. All windings should be made from electrolytic grade copper.				
	10. Alternator Internal protection (enclosure): IP 23				
	11. Alternator cable terminal box protection: IP 54.12. Excitation system: Brushless Self excited & auto regulated.				
	13. The automatic voltage regulator shall ensure that voltage dip during starting of highest size motor with othe	or .			
	electrical loads running at rated output shall not be more than 10% of the alternator rated voltage.				
	14. Mounting: Foot mounted.				
	15. Suitable cable termination box for four core, copper conductor, steel armoured PVC insulated cable connection.				
	16. Alternator is to be mounted on anti-vibration pads.				
	17. Alternator shall have two external grounding terminals.				
	18. The following information in respect of the alternator shall also be provided:				
	(i) Rated output,				
	(ii) Motor starting ability				
	(iii) Voltage swing when rated load is suddenly switched on				
	(iv) Overload capacity				

	BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED)			
	TECHNICAL SPECIFICATIONS			
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)	
	 (v) Short circuit withstand capacity (vi) Automatic voltage regulation (vii) Unbalanced current withstand capacity (viii) efficiency of alternator at 25%, 50%, 75% & 100% load (0.8 PF). 		uccumentary evidence	
	 Alternator make shall be Stamford/ Kirloskar/ NGEF/Crompton Greaves/Leroy Somer. Alternative make if offered will be subject to OIL's approval. Alternator shall be guaranteed for a period of one year from the date commissioning of the unit. The alternator along with the Prime mover shall be housed in an acoustic enclosure. 			
В.	CONTROL PANEL Suitable Industrial type control panel shall be provided for the alternator. The panel shall comprise of the following:			
(i)	Four pole, 415V MCCB, minimum 25 kA breaking capacity, continuous current rating 25% higher than the genset full load current, adjustable (in both current and time) microprocessor-controlled overload, short circuit and ground fault release, with shunt trip coil, quantity – 1 no. Make: Schneider (NSX series)/Legrand (DPX3 series)/Siemens (3VT series)/ABB (Tmax series)/L&T.			
(ii)	1 No. 3 phase, 4 wires, Microprocessor based, Over and Under Voltage Monitoring Relay for the following protections for the alternator (Make: Schneider (Model RM3 TR114VS7)/ProkDvs (Model-LVM11-34-2CF)/ABB Ltd. or equivalent reputed brand)			
	 1) Over voltage - 110 % 2) Under voltage - 85 % with 1- 10 seconds time setting 3) Incorrect phase rotation 			
(iii)	1 No. Over and Under frequency monitoring relay from 40 to 60 HZ with accuracy 0.1%, suitable for 415V. Trip time 0-10 Sec with LED indication, 2NO+ 2NC contact, Make: ProkDvs (Model –HILO-2C-F)/ Minilec (FCS D2) or equivalent reputed brand.			

	BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED)		
	TECHNICAL SPECIFICATIONS		
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
(iv)	One no. Digital Multifunction for display of V, I, KW, Frequency, KWH shall be provided in the panel. Current Transformer: Output 5 A or 1 A of reputed make at rated primary current. Burden – 15 VA, Class-I; Quantity – 3 nos; Make of meter: HPL-Socomec (Diris A40)/Schneider (EM 6400 series). Make of CT: Kappa/A.E./L&T or equivalent reputed brand.		
(v)	MCB ('C' curve) for protection of meters and earth leakage relay.		
(vi)	LED indication lamps for indication of incoming 3 phase power supply; Quantity – 3 nos.		
(vii)	Other components like pushbuttons, as required		
Sub No	tes for Panel:		
N.1	The generator control panel shall be industrial type, self-supporting, floor mounting, built with rigid framework of suitable size MS Angle/Channel, shall have sufficient strength with vibration dampers, dust & vermin proof made of 14SWG CRCA sheet steel, cubicle type conforming to IP54, having front and rear hinged doors with locking arrangement, danger plate fitted on both sides, lifting lugs on top, ventilation louvers with perforated sheet on both sides, detachable gland plates for easy & safe entry of cables, double earthing studs on two sides complete with suitably sized zinc plated &passivated double nuts and spring washers.		
N.2	Control panel shall be thoroughly cleaned before applying 2 coats of rust preventing primer followed by 3 coats of light grey paint as per BIS code.		
N.3	All control wiring shall be done with 1100V grade, single core 1.5 sq mm, ISI, FIA, TAC approved and marked, PVC insulated, flexible copper cable. CT and Ammeter wiring shall be done with 2.5 sq mm copper cable. CT wires shall be terminated with ring type lugs. All wires shall be numbered with ferrule for Identification. Make: Finolex/Havell's/equivalent reputed make.		
N.4	All power connections inside the panel shall be made with copper wire or copper straps of current rating as per MCCB rating. Generator output terminals shall be connected to the control panel input at heavy duty terminals with 1100V grade, heavy duty, ISI approved and marked, PVC insulated, flexible copper conductor cables in heavy duty metallic flexible conduit.		

	BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED)		
	TECHNICAL SPECIFICATIONS		
			TO BE FILLED BY THE BIDDER Relevant Location of their
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for
			documentary evidence)
N.5	The overall dimensions of the panel shall be sufficient for safe and comfortable working inside the panel. Panel shall conform to IS: 8623/equivalent IEC Standard.		
C.	ELECTRIC MOTOR: Induction motors of suitable rating (with adequate reserve HP) & RPM shall be provided for running the air blower, fuel pump and feed water pump. The motors shall have the following minimum specification: a) Voltage: 415V (+/-) 6% AC. b) Rating: min. 10% Higher than the driven load. c) Frequency: 50 Hz (+/-) 3% d) Duty: S-1 (Continuous) e) Enclosure: Totally enclosed Fan cooled (TEFC) f) Class of insulation: F but limited to temperature rise of B class insulation. g) Degree of protection: IP: 55. h) Suitable cable termination box. i) 2 nos suitable earth terminals shall be provided. j) Standard: Motor should confirm to IS 12615: 2011 and IS 15999-2021 for performance. k) Motor shall be guaranteed for one year from date of commissioning of the unit. l) Make: Kirloskar/Crompton Greaves/Bharat Bijlee/ABB. The motors shall be directly coupled through direct, flexible couplings & complete with coupling guards.		
D.	MOTOR CONTROL CENTER: A suitable MCC panel shall be provided for starting of the air blower, fuel pump and feed water pump motors. As the MCC panel also will house the boiler controls (with sensitive PLCs and other instrumentation), sufficient and proper isolation/space shall be provided for instrumentation items and high voltage interference generating items like contactors/MCCBs etc. of motor starters.		

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS		
	TECHNICAL SPECIFICATIONS		TO BE FILLED BY THE BIDDER
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	Relevant Location of thei Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
	The MCC panel shall have the minimum technical specification as under:		
(a)	INCOMER: Qty. – 1 no. It shall be supplied from the output of the generator control panel. It shall comprise the following:		
	 (a1) MCCB, 4 pole, minimum 25 kA breaking capacity, continuous current rating as per design of control panel, adjustable (in both current and time) microprocessor-controlled overload, short circuit and ground fault release, with shunt trip coil, qty – 1 no. Make: Schneider (NSX series)/Legrand (DPX3 series)/Siemens (3VT series)/ABB (Tmax series)/or equivalent reputed brand. (a2) Earth leakage relay with core balance current transformer. Range – 0.3 Amp to 3.0 Amp with adjustable time delay, indication LEDs, test and reset push button: Qty – 1 no. ELR shall trip the MCCB in case of an earth leakage. Make: Schneider/Legrand/ABB/Siemens or equivalent reputed brand. 		
	(a3) Analogue ammeter (with selector switch) with current transformer, 5 A or 1 A secondary at rated primary current. Burden – 15 VA, Class-I; Qty – 3 nos; Make of meter: reputed. Make of CT: Kappa/A.E./L&T.		
	(a4) Analogue voltmeter with selector switch.		
	(a5) Control MCBs ('C' curve) for protection of meters – as required.		
(b)	BUSBAR: A suitable length of 4 nos (Three phases and one neutral) electrolyte grade high conductivity tinned copper busbar shall be provided. Continuous current rating of the busbar shall be two times the current rating of the panel incomer MCCB. Busbar insulation support material shall be non-hygroscopic SMC/GRP. Busbar shall be insulated with colour coded heat shrinkable PVC sleeves.		
(c)	OUTGOING MOTOR & LIGHTING FEEDERS: Direct online (DOL) starters for motors up to 5 HP and star/delta starters for motors above 5 HP shall be provided along with one no. spare starter for highest sized motor.		

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			name / Serial number / Page number of bid for documentary evidence)
	Besides starters one no. lighting feeder (Fitted with MCB and switch) and one no. spare feeder (Fitted with 25-amp 4 pole MCCB) shall be provided. Starters shall have following components:		
	 (c1) Incomer MCCB, 3 pole, microprocessor-controlled overload and short circuit release; suitably rated MPCB may also be offered matching the motor HP/kW. Make: Schneider/Siemens/ABB/Legrand/or equivalent reputed brand. (c2) TP power contactor with auxiliary contacts. Make: Schneider/ABB/Siemens/ or equivalent reputed brand. (c3) Thermal overload relay within built single phasing preventer. Qty – 1 No: Make: Same as contactor. (c4) Timer for star/delta starter, make: Schneider/ABB/Siemens or equivalent reputed brand. (c5) Start & Stop push button (if not controlled through PLC) Qty – 1 set; Make: Siemens/L&T (c6) ON/OFF/Trip LED Indication: Qty – 1 set; Make: Siemens/L&T. (c7) MCBs for control circuit 		
UB-NC	TE FOR MCC PANEL:		
N.1	The MCC panel shall be industrial type, self-supporting, floor mounting, built with rigid framework of suitable size MS Angle/Channel of sufficient strength with vibration dampers, dust and vermin proof made of 14SWG CRCA sheet steel, cubicle type conforming to IP54, having front hinged doors with locking arrangement, danger plate fitted on both sides, lifting lugs on top, ventilation louvers with perforated sheet on both sides, detachable gland plates for easy & safe entry of cables, double earthing studs on two sides complete with suitably sized zinc plated & passivated double nuts and spring washers.		
N.2	MCC shall be thoroughly cleaned before applying 2 coats of rust preventing primer followed by 3 coats of light grey paint as per IS code.		
N.3	All control wiring shall be done with 1100V grade, single core 1.5 sq.mm, ISI, FIA, TAC approved and marked, PVC insulated, flexible copper cable, CT and ammeter wiring shall be done with 2.5 sq.mm copper cable. All wires shall be numbered with ferrule for identification. Make: Finolex/ Havell's.		

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N.4	All power connections inside the panel shall be made with copper wire or copper straps of current rating as per individual MCCB rating. Motors should be connected to the respective panel at heavy duty brought out terminals with 1100 V grade, Heavy duty, ISI approved and marked, PVC insulated, PVC sheathed, Galvanized steel armoured, stranded Copper conductor cables. Heavy duty single compression cable glands shall be used for all cable entries. Make of Cable: Finolex/Havell's/L&T/reputed N5. The overall dimensions of the panel shall be sufficient for safe and comfortable working inside the panel. Panel shall conform to IS: 8623/IEC equivalent.		
	It is to be noted that the MCC panel shall also house the PLC/SLC controls and instrumentation. Hence the section 3.5, MSG Control Panel and Instrumentation, shall also be referred while designing the MCC.		
E.	EARTHING DETAILS: The entire earthing work shall conform to IS: 3043. Two nos 25x5 mm galvanized GI straps shall be mounted suitably inside the unit, which will act as parallel earth bus bars. Two nos. earth connections (either with suitable size GI straps or GI wire rope, suitably terminated with crimp type lug) from alternator, motors, control panel & MCC shall be connected to these straps so as to ensure two earth connections for each device. The generator neutral shall also be earthed to the earth straps with suitable sized insulated copper cables. Earthing scheme shall be as per IS: 3043.		
F.	ELECTRICAL WORKS & CABLES: Entire electrical installation work will be as per BIS/IEC, CEA Regulations NEC codes. All items used shall conform to relevant IS. The layout plan & electrification work shall be planned considering safety of operating staff, equipment & maintenance aspect.		
	Bidder shall refer equivalent international standards for items where only Indian Standards (as per BIS-Bureau of Indian Standards) has been mentioned. All cables will be terminated through suitably sized Heavy duty single compression glands and connections will be made through properly rated terminal strips and tinned copper sockets crimped rigidly to the copper conductors.		
G.	ILLUMINATION AND LIGHTING DETAILS: Interior of the unit shall have sufficient illumination with minimum 3 nos.		

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	of industrial type, 240V, IP55 bulkhead/well glass fittings with LED lamps. These shall be wired with metallic conduit wiring/armoured cable wiring using stranded copper conductor cables approved by ISI. Make of light fittings: Philips/Bajaj/Crompton/GE.		
	MCB shall be used as switches for illumination system and shall be housed in metallic enclosure, properly earthed. One no Industrial type socket outlet of 10 amps with 10 amps MCB shall be provided inside the unit. Make: Schneider/Siemens/ABB/Legrand.		
Н.	DOCUMENTS:		
	i. Following documents are to be submitted along with the offer:		
	a. Confirmation/undertaking from the bidder that they comply with all the electrical specification of the tender.b. Indicative Electrical layout and Power distribution schematics.		
	c. Confirmation / undertaking that all the Electrical motors shall be as per specification & ratings as per clause 3.1.9(C) and calculation sheet with respect to the driven load shall be submitted for OIL's approval after placement of order.		
	d. Confirmation / undertaking that the alternator shall be as per specification and rating as per clause 3.1.9(A) and calculation sheet of the alternator rating shall be submitted for OIL's approval after placement of order.		
	ii. After placement of PO, successful bidder shall submit the following documents for OIL's approval before procurement / manufacturing / fabrications of the Electrical equipment.		
	i. Calculation sheet of the rating of each motor. ii. Calculation sheet of the alternator rating.		
	iii. Detailed layout plan / general arrangement of all the Electrical equipment.		

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3.1.10 (a)	 iv. Electrical Single Line Diagram and Power Distribution Diagram. v. Detailed Control Circuit Power circuit diagram of the Generator Control Panel, MCC panel & Lightning Distribution Board. vi. Datasheets of the alternator, electrical motors, cables and luminaries. vii. Bill of Materials of the Generator Control Panel, MCC panel and the Lightning Distribution Board. viii. Factory test report of the all-electrical equipment. ix. Site Test report/commissioning test report of the all the electrical equipment. iii. Following documents are to be submitted along with the supply in hard copies and soft copies. a. O&M manual of the Alternator, Generator control panel, MCC panel and the Electrical panels. b. As built Control Circuit Power circuit diagram of the Generator Control Panel, MCC panel & Lightning Distribution Board. c. As built b. Electrical Single Line Diagram and Power Distribution Diagram. d. As built Bill of Materials of the Generator Control Panel, MCC panel and the Lightning Distribution Board. e. List of spares for 2 years O&M. FUEL BURNING COMBUSTION SYSTEM: The fuel burning system of the boiler shall comprise of the following: BURNER: The burner shall be pressure jet, direct electric spark ignition type using spark electrodes/plugs and hightension power supply from inverter/magneto of a well proven design comprising of burner gun, electrode, air fuel 		
	mixing devices, ignition transformer and other accessories if any, all rated for continuous duty service. The burning system shall be adequate to produce heat required for generating steam at the desired rate within 3 to 5 minutes of cold start. Make – Monarch/Invalco/Hauck Manufacturing Company (ELSTER) etc. Manual describing combustion principle for steam generation is to be submitted.		

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(b)	<u>COMBUSTION AIR BLOWER</u> : Centrifugal type air blower of suitable capacity is to be driven directly either by the diesel engine through belt drive or by directly coupled electric motor complete with all the accessories for power transmission. It shall also be provided with an over pressure relief valve.		
(c)	<u>FUEL PUMP</u> : Gear type fuel pump suitable for pumping HSD or any second-grade fuel oil, either mounted on the same shaft as that of the air blower driven by the diesel engine through belt drive or by directly coupled suitable electric motor. The fuel pump shall be complete with all accessories required for power transmission. It shall also be equipped with internal over pressure relief arrangement / automatic by-pass control valve. Make - Sofag, Sun		
(d)	strand, Neel or equivalent reputed make. The position of the pump should be easily accessible for maintenance. <u>DIESEL OIL TANK</u> : HSD tank of suitable capacity, based on the feed water tank capacity and fuel consumption rate, for continuous full load operating time made of MS sheet, complete with inlet and drain nozzles fitted with valves, graduated level gauge shall be firmly anchored to the skid to withstand severe wrenching and shocks. Necessary MS piping up to the diesel engine and boiler fuel pump should be provided.		
(e)	MANUAL HSD FILLING PUMP: One (1) no hand operated HSD filling pump (gear type) complete with suction and discharge flexible rubber hoses for filling HSD tank shall be mounted near the tank. While the length of the discharge hose shall be as per assembly requirement, the length of the suction hose shall not be less than 40 ft.		
3.1.11	FEED WATER PUMP: Triplex reciprocating plunger type positive displacement pumps of suitable capacity of a reputed manufacturer like SPECK etc. to be driven either by the diesel engine through belt drive or by directly coupled suitable electric motor complete with all accessories for power transmission. The pump shall be complete with fluid over pressure relief valve, suction stabilizer and pulsation dampener. The bidder shall clearly specify volumetric capacity, pump HP and other technical details. Piping shall be provided for connecting the water pump to the coil inlet. A suitable strainer shall be provided at the suction of the pump to remove foreign materials. The position of the pump should be easily accessible for maintenance.		
3.1.12	<u>FEED WATER TANK</u> : Tank/s made of MS sheets (Plate thickness min. 5 mm) with suitable anti-corrosive paint of capacity not less than 6000 litre, fitted with inlet, outlet, drain and vent nozzles (in each tank) fitted with valves, level indicator/gauges shall be provided. The tank shall be properly designed to reduce water surging on turns and		

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	withstand violent wrenching and shocks. It shall be firmly anchored to a skid mounted above the chassis as shown in the attached layout diagram. The tanks shall be easily detachable from main unit for cleaning and maintenance without dismantling other units. If the tanks are made in several sections, then each section shall have isolating valve and individual tank drainage facility. Suitable air vent nozzle shall be provided in each tank to eliminate air pockets while filling up. Proper care shall be taken that the tanks are suitably connected to the feed water pump and there is no starvation of water to the pumps. Suitable provision shall be made to reduce metal to metal friction		
	for longevity of the tanks.		
3.1.13	<u>STEAM HEADER</u> : The steam header for mounting safety relief valves, steam pressure indicator, high steam pressure switch, coil blow down valves including steam stop, auxiliary and check valves. The steam header shall have flanged ends for mounting all the valves. It should be placed at the Right-hand side of the Unit.		
3.1.14	<u>DUCTING</u> : Ducting shall be provided for the flue gases from outlet of the boiler complete with a rain head outside the boiler housing.		
3.2	<u>PIPING</u> : Piping to connect water pump, boiler as well as steam outlet shall be of boiler quality duly certified by the competent authority. Suitable insulation shall be done up to the rear of the boiler housing. Drain piping for fuel, feed water and steam coil shall be suitably provided.		
3.3	STEAM HOSE/PIPE: 25mm (1") NB 12-meter-long flexible metal braided high pressure hose (Four nos.) of steam working pressure of 70 kg/sq.cm (1000 Psig) at 100 Deg C. complete with quick release coupling at each end shall be provided.		
	Or <u>Alternatively</u> : Two sets of 25mm (1") NB pipes of 70 kg/sq.cm (1000 Psig) working pressure duly insulated with quick release couplings at each end shall be provided. The far end of the pipe shall be 12 m away from the steam outlet of the boiler along the ground. Accordingly, necessary elbows/bends and short joints with quick release couplings shall be provided. Additionally, provision should be made to keep at least 4 Nos. of steam hose suitable coiled adjacent to the boiler housing.		

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3.4	<u>VALVES</u> : The boiler shall be equipped with 2 nos each of coil blow down valves (at suitable position for easy operation), safety relief valves, steam stop valves (suitably covered for safe operation) and feedback (non-return) valves for coil blow down, over pressure release, steam shut off and preventing reverse flow respectively. These valves are minimum requirement for the unit.		
	All the valves shall be IBR quality flanged type valves. The bidder has to provide necessary document in support of this along with the quotation.		
3.5	MSG CONTROL PANEL AND INSTRUMENTATION:		
A.	Control panel shall be designed based on microprocessor-based state of the art technology Programmable Logic Controller (PLC)/Sequence Logic Controller (SLC) system suitable for Mobile Steam Generation (MSG) operation and control. The fault functions shall be both visually and audibly indicated on the unit's control panel and shall remain 'ON' until manually reset. It will have sequence starting system to ensure that all functions associated with starting operation are performed in correct sequence. The initiation shall be by means of a switch of push type, on the unit control panel. Provision shall also be incorporated for emergency shutdown of the MSG unit. The MSG units shall be provided with automatic safety shutdown devices and annunciation system with fuel cut-off. The PLC shall have RAM of minimum 1 MB.		
	i. Flame failure. ii. Steam pressure high. iii. Steam temperature high. iv. Low feed water pressure. v. Low fuel oil pressure. vi. Blow down valve open. vii. Low air pressure.		

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	SEQUENCE AND CONTROL FOR THE FOLLOWING CONDITIONS SHOULD BE OFFERED		, , , , , , , , , , , , , , , , , , , ,
	 i. Primary safety checks. ii. Start of blower fan and fuel pump. iii. Secondary safety checks. iv. Start ignition and fuel supply. v. Prove pilot flame establishment. vi. Continue operation till high steam pressure reached. vii. On-off operation set pressure failure. viii. Safety lock out for flame, or any other safety shutdown condition as mentioned above. 		
В.	Field and panel mounted indicating instruments shall also be available to monitor various process parameters.		
	 Panel mounted indicating meter. i. Steam temperature. (Analog type input, preferably 4-20 ma) ii. Steam flowmeter with data logging facility. (Analog type input, preferably 4-20 ma). Necessary meter run for the flowmeter will be in bidder's scope. The flowmeter shall be preferably of M/s Emerson, M/s Cameron, M/s ABB, M/s Krohne or M/s Yokogawa. Panel mounted indicating lamp & switches: Indicating lamp: i. 230 V AC ON. ii. Safety Lockout Internal. iii. Start. iv. Flame ON. 		

	BID EVALUATION MATR		
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	v. Water pump ON. vi. Water pump OFF. vii. Water pump Trip. viii. Fuel Pump ON. ix. Fuel pump OFF. x. Fuel pump trip. xi. Air blower ON. xii. Air blower OFF. xiii. Air blower trip. xiv. Steam Temperature high. xv. Steam pressure high. xvi. Low steam pressure. xvii. Low air pressure. xviii. Low fuel pressure. xix. Low fuel oil level. xx. Low feed water level. xxi. Blow down valve open status. Switches (Push Buttons): i. Start push button. iii. Alarm Test push button. iv. Alarms accept PB. v. Alarm reset PB. vi. Start PB for water pump.		

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-	viii. Start PB for fuel pump.				
	ix. Stop PB for fuel pump.				
	x. Start PB for air blower.				
	xi. Stop PB for air blower.				
	xii. Auto/Manual water pump selector switch.				
	xiii. Auto/Manual fuel pump selector switch.				
	xiv. Auto/Manual air blower selector switch.				
	xv. 230 V AC power ON/OFF switch.				
	Field mounted instruments (Analog type)				
	i. Steam pressure gauges.				
	ii. Feed water pressure gauge.				
	iii. Steam temperature gauge.				
	iv. Indicating thermostat or temperature switch for steam temperature, with a set point for high temperature				
	(superheat alarm)				
	v. Steam pressure switch for both high & low.				
	vi. Air pressure switch.				
	vii. Pressure switch for fuel oil.				
	viii. Pressure switch for feed water.				
	ix. Level switch for fuel oil level.				
	x. Level switch for feed water level.				
	xi. Limit switch for blow down valve.				
	xii. Alarm rest, engine start and main switch.				
	xiii. Tachometer, lube oil pressure indicator, temperature indicator for the diesel engine.				
	Ignition of burner should be carried out using ignition transformer and ignition electrodes operating at 230 V AC, 50 Hz.				

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D.	Steam temperature controller function shall be incorporated in the control programme.		documentary evidence)	
E.	A low voltage/under voltage (less than < 180 V AC) indication of instrument Panel incoming power (230 V AC, 50 Hz) to be provided.			
F.	All three phase (415 V, 3 PH, 50 Hz) motor starter relays, overload relays, current transformers etc. should be placed in the control panel in such a way that no high voltage interference will occur in the PLC side. Therefore, the control panel should be designed like that upper half of the panel should include all instrumentation items and lower half of the panel should include all three-phase electrical component including ignition transformer with proper isolation. As a safety requirement, there shall be a physical separation between PLC components and the high voltage components.			
G.	The control panel shall be mounted in such a way that it can absorb maximum shock/vibration since the panel is truck mounted and truck is required to move very frequently, sometimes on bad road condition also.			
Н.	The control panel shall have an entry for easy access and shall be suitable for use in IP-65 environment. The control system shall be designed in such a way that failure of portion of the system shall not jeopardize the health of the MSG unit i.e., the health of various auxiliaries as well as the steam generation availability shall be always ensured.			
I.	All the indication as well as sequence, interlock, startup and safety shutdown through PLC using analog / digital I/O cards. Also preferred analog / digital indication in the panel as mentioned.			
J.	The control panel shall include a programmable logic controller (PLC)/SLC with the following features to cater the operational need of the boiler. (i) Indication of status of inputs and outputs for easy debugging. (ii) Expandable inputs/outputs for 10% spare. (iii) Program memory held in EPROM. (iv) Communication port for connection to PC or laptop computer. (v) Designed to work in boiler environment.			

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	(") TI DIG		documentary evidence)		
	(vii) The PLC program back up shall be handed over to OIL and logic checking need to be verified during FAT/PDI.(viii) The PLC should have the facility to log the cumulative steam flow data in addition to instantaneous flow data.				
K.	Control cabinets shall be industrial grade, enclosed type and shall be designed for bottom entry for cable connection and cabinet structure shall be rigid. Cabinets shall be equipped with easy access door and door shall be equipped with lockable handles and concealed hinges. All cable entry to the cabinet shall be properly rooted through conceal tray/conduit. Proper illumination shall be provided with operating door switch inside the cabinet.				
L.	One (1) laptop/handheld programmer with latest OS (minimum i5 or better) and configuration for interfacing with PLC/SLC.				
4.0	TRUCK UNIT				
A.	Overall dimensions & overall weight of complete unit (Truck Mounted Horizontal Mobile Steam Generator):				
a.	Overall Length: Within 12.0 metres/ The bidder shall clearly mention the overall length of the complete unit.				
b.	Overall Width: Within 2.6 metres. The bidder shall clearly mention the overall width of the complete unit.				
C.	Overall Height from ground level: Within 4.5 metres. The bidder shall clearly mention the overall height of the complete unit from ground level.				
d.	Overall weight of the unit: The overall weight of the complete unit shall not exceed the Truck manufacturer's Gross Vehicle Weight (GVW) Rating of the offered Truck.				
	Note:				
	Overall weight is the weight of the complete unit with all equipment & fittings, i.e. sum total of the weight of the				
	Truck chassis with Driver's cabin, weight of the housing, weight of the steam generator along with its components,				
	weight of the Generating Set, weight of boiler diesel fuel tank fully filled with diesel, weight of feed water tank fully				
	filled with water, weight of all equipment, items, accessories etc. that are mounted, carried, kept in the unit.				
	The bidder shall clearly mention the Truck manufacturer's Gross Vehicle Weight (GVW) Rating of the offered Truck and overall weight of the complete unit.				

BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED) **TECHNICAL SPECIFICATIONS** TO BE FILLED BY THE **BIDDER Relevant Location of their BIDDER'S RESPONSE** Bid to support the Clause (Complied / Not remarks/compliance Description Complied/Deviation / Not No Applicable) (Reference of Document name / Serial number / Page number of bid for documentary evidence) Overhang: No overhang beyond the original chassis except as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India shall be allowed. Extension of the original chassis/ body by welding/ bolting or by any other means to accommodate the Mobile Steam Generator items on the chassis shall not be acceptable. f. The complete unit shall comply with District Transport Office (DTO) / Regional Transport Office (RTO) regulations of Assam. India. В. TRUCK CHASSIS for MOBILE STEAM GENERATOR UNIT: The chassis for the "Mobile Steam Generator" unit shall be procured & supplied by the successful bidder. The successful bidder shall be responsible for supplying all equipment / accessories and properly mounting them on the chassis as described in this specification. Other details and requirements which are not covered under this specification, but necessary to complete the "Mobile Steam Generator" unit and / or to fulfil the operation/ performance requirement shall be provided by the Successful Bidder, who will be responsible for the design and construction of the complete unit to the full satisfaction of M/s Oil India Limited. b. The bidder/supplier shall take special care in selecting and designing the Mobile Steam Generator unit considering the unit's application in typical oilfield roads. The offered model shall be latest and conforming to international quality standard norms, having specifications, fittings, accessories etc. as mentioned in the tender/order documents. The offered Truck shall meet the following specifications and requirements: c. i. Month / year of manufacture: Brand new Truck procured after the date of issuance of Oil India Limited's Purchase Order / GeM Contract. ii. Make & Model: (a) Truck model of any vehicle manufacturer of India meeting the specifications as mentioned in the tender. (b) The bidder shall clearly mention the make & model of the offered Truck chassis. (c) The bidder shall submit the technical leaflet of the offered Truck chassis to support the specifications along with the technical bid.

BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED) **TECHNICAL SPECIFICATIONS** TO BE FILLED BY THE **BIDDER Relevant Location of their BIDDER'S RESPONSE** Bid to support the Clause (Complied / Not remarks/compliance Description Complied/Deviation / Not No Applicable) (Reference of Document name / Serial number / Page number of bid for documentary evidence) Gross Vehicle Weight (GVW) Rating of Truck chassis: Not less than 28,000 Kg. The bidder shall mention the Gross iii. Vehicle Weight (GVW) Rating of the offered Truck chassis. iv. **Drive & Axles:** (a) **Drive**: 6 x 2 drive. Bidder shall mention the drive of the offered Chassis. (b) Axles: Front Axle – 01 (one) no. non powered front axle. Rear Axle – 01 (one) no. powered & 01 (one) no. non powered axle, i.e., total 02 (two) rear axles. Wheelbase: In the range of 4800 mm to 6850 mm. ٧. The wheelbase is the horizontal distance between the center of the front axle and the Centre point between the two rear axles. The bidder shall clearly mention the wheelbase of the offered Truck chassis. **Truck Engine**: Water-cooled diesel fuel engine of adequate power and torque shall be provided. vi. The Truck engine is to be used for road drive of the unit only. The Truck engine shall not be utilized to run any equipment/ item(s)/ machineries etc. of Mobile Steam Generator (MSG) unit. Truck Engine Emission Norms: Shall meet Bharat Stage - VI (BS VI) OBD Stage II engine emission norms. The vii. emission norms shall comply with Real Drive Emissions (RDE) using Portable Emissions Measurement System (PEMS) requirements. The bidder shall mention the emission norms of the offered vehicle chassis in the technical bid. Steering: Power assisted & Right Hand steering system (i.e., the steering wheel shall be on right hand side inside viii. the driver's cabin when viewed from rear of the vehicle). **Gearbox / Transmission**: Minimum 5 forward speed & 1 reverse speed. ix. Brake: x. (a) Foot operated pneumatic or hydraulic power assisted brake acting on all wheels with Antilock Braking System. (b) Suitable hand operated parking brake. **Suspension (Front & Rear)**: As per the Truck manufacturer. xi.

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xii.	Wheels with Tyre: Total 10 (ten) nos. as detailed below:		
	 (a) Total number of wheels with tyre in Front Axle – Total 02 (two) numbers (b) Total number of wheels with tyre in 02 (two) nos. Rear Axle – Total 08 (eight) nos. (c) Suitable mounting arrangement facility for spare wheel shall be provided. 		
xiii.	Truck Engine Fuel Tank & Diesel Exhaust Fluid (DEF) Tank: As per the Truck manufacturer. The bidder shall note that use of fuel from Truck Engine Fuel Tank & DEF from the Truck DEF Tank to run the prime mover of the MSG Unit shall not be allowed.		
xiv.	Driver's cabin:		
	(a) Fully built driver's cabin. Driver's cabin supplied along with the Truck by the Truck manufacturer of the offered Truck with all gauges, fittings & accessories, driving controls etc. shall be provided.		
	(b) Seating Capacity inside the driver's cabin shall not be less than 02 (two) numbers including the Driver.		
	(c) Driver's cabin shall have 01 (one) bench type seat behind and parallel to the driver & co-driver seat originally built by the vehicle manufacturer. Driver's cabin with Single Cabin / Day Cabin shall not be allowed.		
	(d) The seats shall have seat belts as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India as applicable in the state of Assam.		
xv.	Speed Limiting Device (SLD): To be provided with valid certification as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India as applicable in the state of Assam.		
xvi.	Painting: (a) Exterior of Driver's cabin: As per the Truck manufacturer's standard. (b) Interior of Driver's cabin: Light shade as per Truck manufacturer's standard. (c) Chassis & undercarriage - Rustproof painting.		

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xvii.	Other fitments & accessories, etc.:		,		
	Following fitments & accessories etc. shall be fitted in each vehicle:				
	(a) All standard fittings, gauges/ meters, controls, dashboard & accessories as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India.				
	(b) Horn.				
	(c) Audible Alarm when the vehicle is put in reverse gear.				
	(d) Hazard Warning Lights.				
	(e) Direction Indicator Lights.				
	(f) Stop Lamps.				
	(g) Head Lamps				
	(h) Parking Lamps.(i) Cabin Lamps.				
	(j) Fog Lamps.				
	(k) Top, side marker lamps				
	(I) To fix Retro-reflective tape on front, rear & both sides of the vehicle as per colour code – Front: White, Rear: Red and Sides: Yellow				
	(m) Windscreen Wipers.				
	(n) Battery along with well covered battery box.				
	(o) Glove box.				
	(p) Mud Flaps & Guards.				
	(q) Rear View Mirrors at both sides of Driver's cabin				
	(r) Wherever feasible, bumper(s), side underrun protection device (SUPD), rear underrun protection device				
	(RUPD), front underrun protection device (FUPD) are to be fitted.				

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	 (s) Door footsteps for Driver & crew members. (t) First Aid Box at suitable location. (u) Towing provision / attachment at front & rear of the vehicle (v) Minimum 01 (one) number of Fire Extinguisher. Mounting arrangement for Fire Extinguisher shall be provided at suitable location of the vehicle. (w) Vehicle Tracking System (VTS) /GPS: To be provided with valid certification as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India as applicable in the state of Assam. (x) Suitable Spark Arrestor in the engine exhaust. The Spark Arrestor may be additional attachment to be fitted with the exhaust or chassis inbuilt mechanism. In case Spark Arrestor is not needed/ recommended as per the Truck chassis manufacturer as additional attachment, the bidder shall submit supporting document(s) from the Truck manufacturer or from Truck manufacturer's dealer along with the technical bid. (y) One set of Jack with Handle and Wheel Wrench with Lever shall be supplied along with each vehicle. In case the wheel nuts at front and rear are of different size, then separate Wheel Wrench & Handle for both front & rear shall be supplied along with each unit. (z) In case any of fittings/accessories etc. as mentioned in the tender (order) does not come along with the vehicle as standard fittings/accessories from the vehicle manufacturer, the supplier shall procure the same and fit the same prior to delivery. Cost in this regard shall be borne by the supplier. 		
d.	Other Notes: (a) No preference shall be provided for the vehicles with higher specifications etc. meeting the tender specifications. All vehicles meeting the tender specifications shall be considered equal. (b) While selecting the vehicle, bidder/ supplier shall note that the offered vehicle accommodates all the equipment, items etc. and meets the tender/order specifications.		

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		Applicable)	(Reference of Document name / Serial number / Page number of bid for documentary evidence)
	The bidder /successful bidder (i.e., supplier) shall be solely responsible for selecting the make & model of vehicle and designing, fabrication, mounting of entire system etc. as per the requirements mentioned in the tender. Oil India Limited (OIL) shall no way be responsible in case any of the selected make & model vehicle is not found suitable later on. Moreover, in such instances, no compensation etc. shall be payable by OIL. Accordingly, the supplier should decide & plan precisely for successful execution of the entire project.		
	(c) The supplier (i.e. successful bidder) shall take special care while fabricating of the unit with respect to accessibility during maintenance, repairing and servicing of the vehicle components. For example, in case the filling points for Diesel Exhaust Fluid (DEF) & Fuel etc., the components like battery cut off switch etc. are covered, the coverings shall be provided with openable provision during maintenance, repairing and servicing etc. of the components, wherever applicable. Vehicle battery box inside the driver's cabin is not acceptable.		
e.	Body builder: The entire design, fabrication and mounting etc. of the Steam Generator Unit (SGU) housing may be done by the supplier or may be done by any professional automobile body builder. Any supporting documents of the supplier / automobile body builder, as the case may be, like valid Trade Certificate issued by District Transport Office (DTO) / Regional Transport Office (RTO) as per Central Motor Vehicle Rules, 1989 of India, if required during permanent registration of the vehicle shall be supplied by the supplier.		
C.	PLATFORM		
	 i. A suitable platform is to be constructed on the truck chassis to mount the skid(s) with all the items of the Steam Generator Unit (SGU) described at para 3.0 to 3.5 above and to construct a weatherproof housing as detailed at para 5.0 below. ii. Longitudinal Runners (Chassis sub-frame): All steel structure channel. 		
	iii. Cross members (Chassis sub-frame): All steel structure channel.		

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	 iv. Body Frame Structure: All welded steel structure. Structure is to be painted desirably with high rich Zinc primer or better. v. Flooring: Minimum 05 mm Chequered plate flooring. The entire floor should be covered with anti-skid aluminium chequered plate. vi. Suitable damper/shock absorbers, if required to arrest vibration of housing as per design are to be fitted. vii. Positioning of the items of the Steam Generator Unit (SGU) on the platform should be such that the load is distributed execution. 				
D.	distributed evenly on the platform. WORKMANSHIP:				
<u> </u>	The workmanship and fabrication/ mounting, finishing etc. should be of highest standard. The materials, fittings, accessories etc. supplied/ fitted shall be new, of recent make, best quality. Workmanship should be of good quality and appearance. Following is a partial and non-exhaustive list of examples:				
	 i. Flame cut edges shall be ground smooth. Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth. ii. Bolt holes shall be drilled (not torch cut). iii. Welds shall be of good quality and of sufficient strength. 				
	 iv. Use self-locking nuts. v. All electrical wirings will be well supported with support type clamps & conduit wherever required. vi. The electrical connections, other than those which come along with the Truck, shall be suitable to operate in oilfield area. 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 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. 				

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NO		Complied/Deviation / Not Applicable)	(Reference of Document name / Serial number / Page number of bid for documentary evidence)
5.0	UNITISATION & SPECIFICATIONS OF HOUSING:		
a.	The mobile steam generator shall be generally fabricated on the basis of the supplied layout drawing (Not to Scale) as shown in Annexure AI . The bidders are also to note that the supplied drawing is only a reference drawing and in no case, it should be considered as the final drawing. However, the successful bidder shall have to make their own detailed lay out drawing, P&I drawing etc. and the same shall have to be submitted within 4 weeks from the date receipt of formal order for OIL's approval prior to starting actual fabrication of the unit.		
b.	All the items of the Steam Generator detailed at para 3.0 to 3.5 above are to be installed on suitable individual skids of preferably on a single skid and the skid(s) is to be mounted on the truck platform through bolts extended up to the underneath cross members of the platform as well as chassis, as applicable. Mounting of the skid(s) either by the bolts or welding to the platform sheet (floor sheet) shall not be acceptable.		
c.	The skid(s) is to be covered with suitable chequered plate flooring at areas where people will generally stand to operate different items of the steam generator unit.		
d.	Positioning of different items of steam generator unit should be such that load is evenly distributed on the truck and does not create any problem in operating the truck.		
е	A suitable all steel construction weatherproof housing is to be constructed on the platform. Vertical posts of the housing structure are to be welded to the peripheral channels of platform through horizontal members and/or underneath cross members of platform. Welding of posts directly to the peripheral channels/floor sheet or welding of the horizontal members to the floor sheet itself should be avoided.		
	The housing is to be constructed as per following specifications —		
	 i. Structure – All welded MS structure made out of square tubing of adequate size (min 5.00 cm sides). ii. Panelling – Aluminium internal and external panelling of thickness not less than 18 gauges. 		
	iii. Height – Not more than 2200 mm from truck platform. Overall height of the complete MSG unit including		

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	chimney shall not be more than the overall height of the complete unit from the ground as provided by the bidder against para 4.0 (A).					
	iv. Width & length – As per size of the truck platform (to cover the complete platform). The width and the length of the housing shall be such that is does not exceed the overall width and overall length of the complete unit as provided by the bidder against para 4.0 (A).					
	v. Doors – 1 (One) full height 2 (two) panel door at rear of the housing (width approx. 600 mm less than the cabin width) at rear of the housing. 2 (two) full height 2 (two) panel doors of minimum 1500 mm width on either sides of the housing. Positioning of the side doors as per convenience/easy access. All doors shall be provided with strong hinges and locking provisions from inside & outside.					
	vi. Windows – Minimum 4 (four) nos windows of size preferably not less than 1.50 m x 0.75 m on sides of the housing with lockable sliding toughen glasses and aluminium frame.					
	vii. Ventilation – For proper ventilation the housing shall be fitted with two nos of suitable exhaust fans on opposite walls.					
	viii. Insulations – Glass wool packing inside all walls and doors to protect personnel from heat.					
	ix. Waterproofing – Suitable sealant/gasket shall be used to arrest water leakage through panel joints etc.					
	x. Illumination – Adequate number of lights inside the housing for proper illumination. While at least one number light is to be connected to truck electrical system, power sources for the rest will be from the steam generator circuit.					

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Clause No	Description	(Complied / Not Complied/Deviation / Not Applicable)	Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for			
	In addition, two searchlights connected to truck's electrical system (switches inside the driver's cabin) shall be		documentary evidence)			
	provided at rear and front top corners of the housing. xi. Painting — Two coats of primer followed by two coats of paints of following shades. Exterior — Caterpillar Yellow or Golden yellow.					
	Interior – Light shade. xii. Other fitments/accessories –					
	 a. Adequate firefighting equipment (e.g., fire extinguishers) inside the housing with suitable mounting arrangements at suitable locations. b. Suitable foldable ladder/steps of sufficient width below each door. c. 01 (one) no fixed type ladder at rear of the housing for climbing to housing's roof top. d. Suitable walkway on top of housing's roof to avoid damage to roof structure/panelling. e. Roof of the housing shall be made slanting towards sides to avoid water accumulation. f. Suitable ventilations with fixed cover on roof (Jack-roof type) and with folding cover on wall near the engine for easy escape of hot air shall be provided. Additionally, two numbers of exhaust fans shall be provided inside the MSG cabin for proper ventilation. 					
5.1	A detailed drawing of the housing showing dimensions, construction, material descriptions, positions of doors & windows, ladders/steps & walkway, floodlights, switchboards, fire extinguishers, ventilations etc. is to be submitted along with the bid for scrutiny and acceptance.					
6.0	SPARES:					
(a)	COMMISSIONING SPARES: The supplier has to supply all the spare parts required for initial commissioning of the unit.					

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		Applicable)	(Reference of Document name / Serial number / Page number of bid for documentary evidence)	
(b)	OPERATIONAL CRITICAL SPARES: Supplier shall supply the following operational critical spares along with the supply of the EACH UNIT:			
	i. 1½" Globe type valve – 2 nos.			
	ii. 1" global type valve – 3 nos.			
	iii. Fuel pump (Suntec/Danfoss or equivalent) – 1 no.			
	iv. Water pump – 1 no.			
	v. 1 ½" non-return valve – 2 nos.			
	vi. Ignition transformer – 1 no.			
	vii. Spray nozzle – 1 no.			
	viii. Safety valve – 1 no.			
	ix. Steam coil – 1 no.			
	x. Blower – 1 no.			
	xi. Alternator – 1 no.			
	xii. Ignition Electrodes 3/8" – 1 no.			
	xiii. ½" Non return valve – 1 no.			
	xiv. 1" Flange type globe valve – 3 nos.			
	xv. 1" Check valve – 2 nos.			
	xvi. 1 ½" Flange check valve – 1 no.			
	xvii. 1 ½" Flange type Globe valve - 2 nos.			
	xviii. Contactors – 1 set.			
	xix. Overload relays – 1 set.			
	xx. Fuses – 1 set.			
	xxi. Lamps – 1 set.			
	xxii. A set of instrumentation spares comprising field switch/ instruments, solenoid valve, flame sensor,			

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	programmable controller & card, power supply etc. (Quantity:01 no. each)		-
	xxiii. Engine Spares: (a) Fuel filter - 06 nos. (b) Lube oil filter - 06 nos. (c) Air filter- 06 nos. (d) Complete Set of Belts – 04 Sets (e) Lube Oil for initial filling		
	(6) 2000 011 101 1111116		
	Note: (i) All spares in specified quantity as indicated above shall be supplied along with each unit. Cost of the spares MUST BE INCLUDED IN THE TOTAL QUOTED PRICE OF EACH UNIT.	ese	
	(ii) Specific description, part nos., Make etc. and Unit price of each and every spare as mentioned above so however be clearly indicated separately and submitted in the manner as mentioned in the Note below Please note that no price should be mentioned in the Technical Bid.		
	(iii) Bidder shall also quote separately for any additional spares with similar details as felt necessary for 2 (two years trouble free operation & maintenance. However, cost of the spares will not be considered for evaluation and SHOULD NOT BE INCLUDED IN THE COST OF THE UNIT.		
	NOTE FOR SUBMISSION OF SPARE PRICE LIST: Description, part numbers etc. (if available) and unit price each & every spare as mentioned in Note (ii) & (iii) shall be provided separately as pdf . document un "Financial Documents" while submitting the Price Bids in GeM Portal. Please note that NO PRICE SHOLBE MENTIONED IN THE TECHNICAL BID.	der	
(c)	RECOMMENDED SPARES: The bidder is to furnish a list of spares & components that will be required for regu		
	operation and maintenance, overhauling etc., throughout the life of the equipment complete with price of ea	ich	

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	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 manuals. The list should include a spare parts list along with OEM part numbers, make & model of the equipment and contract postal address of OEM for all items of the whole unit. The price quoted for recommended spares will not be taken into account for bid evaluation and SHOULD NOT BE INCLUDED IN THE COST OF THE UNIT. NOTE FOR SUBMISSION OF RECOMMENDED SPARE PRICE LIST: The price of recommended spares [to be provided by bidder as per 6.0 (c) above] shall be provided separately as pdf. document under "Financial Documents" while submitting the Price Bids in GeM Portal. The price of these spares [6.0(c)] shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the unit. Also please note that NO PRICE should be mentioned in the TECHNICAL BID.		
(d)	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 10 (ten) years from the certified date of completion / successful field commissioning of the unit.		
(e)	To provide Two (02) sets of toolbox of reputed make.		
7.0	DOCUMENTATION:		
i)	The following documents are to be submitted along with the bid:		
(a)	Preliminary P & I diagram along with bill of equipment. Technical catalogue of all instrumentation items needs to be submitted.		
(b)	Instrumentation schematic diagram and interlock control circuit diagram.		
(c)	General layout diagram (Plan, Elevation & Side views) showing dimensions of various components and the complete Mobile Steam Generator unit as a whole.		
(d)	Details of weight/load distribution on the truck chassis.		
(e)	Detailed calculation for sizing of all equipment.		

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

TECHNICAL SPECIFICATIONS

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(f)	Relevant technical catalogue/manuals of each component like water pump, fuel pump, blower, diesel engine, coil		-	
	tube, alternator, burner system, instruments & control system, offered truck chassis etc. Detailed specification of			
	each component should be provided.			
(g)	Indicative Electrical control circuit diagram and layout diagram.			
(h)	Bill of materials for all equipment.			
(i)	Filled up Annexure – IV (Technical Evaluation Matrix) document.			
ii)	The following documents are to be submitted by the successful bidder within 4 weeks from the receipt of the			
	formal order for OIL's approval. Only after receiving approval from OIL, fabrication of the MSG unit shall start.			
a.	Detailed engineering drawing (Plan, Elevation & Side views) showing lay out of all equipment, load distribution,			
	equipment mounting details, P&I drawing, electrical circuit diagram, panel wiring diagram, details (including make & model no) of all equipment mentioning all major dimensions and weight of the respective components and			
	complete unit along with quality assurance plan.			
	Note: During detailed designing of the unit special emphasis shall be given to the issue of ease of accessibility,			
	servicing/maintenance and removability of individual equipment while maintaining a reasonable compactness of			
	the unit as a whole.			
b.	Detailed calculation for sizing of all equipment.			
c.	Loop diagram and lop details.			
d.	PLC hardware and software.			
e.	Logic details of startup, sequence, interlock, safety shutdown, alarm, control & monitoring.			
f.	Ladder programs development for startup, sequence, interlock, safety shutdown, alarm, control & monitoring.			
g.	Emergency & Shutdown logic.			
h.	Power and control circuit diagrams of generator control panel, MCC and burner control system.			
i.	Details of cables, luminaries, and other accessories.			
iii.	The following documents are to be submitted prior to dispatch of the equipment. The supplier is to note that only			

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	after scrutiny of the following documents and obtaining categorical approval, the equipment shall be dispatched from works:		documentary evidence)
a.	 5 sets of bounded Operation and maintenance manual (additionally one copy in a CD) covering all the equipment. The manuals shall contain details like make, model, part number etc. of all installed equipment including bought out items with contact postal address of the supplier/ OEM and a detailed spares list. However, to reduce the size of the manual, the manual may be separated into following volumes. Manual for MSG unit with control panel and its related ancillaries like pumps, blowers etc. The manual shall contain the detailed P&I diagram, panel wiring diagram, electrical circuit diagram etc. 		
	 Manual for alternators, Motors and related panels. Operation & maintenance manual and illustrated spare parts catalogue for the SGU prime mover (pilot engine). Manual for Instrumentation and control system including recommended spare parts list. However, one copy of the manual shall be provided as master copy containing all the details in the same volume. 		
b.	Necessary certificate/documents from competent Government authority to obtain permission from IBR, Assam for operating the boiler in OIL's operational area.		
c.	Engine emission certificates MSG prime mover.		
d.	License copy of software for control &instrumentation system (having lifetime validity) if any.		
8.0	<u>DEVIATIONS FROM THE SPECIFICATIONS</u> : The bidder shall enclose comprehensive list of intended deviations from the technical specifications, of any clearly highlighting the reasons thereof, along with the bid. If no deviations from the Technical specifications are intended, the same shall be confirmed in the offer. But OIL reserves the right for acceptance or rejection of the deviation.		
9.0	BID SUBMISSION & DOCUMENTATIONS: Bidder's response to all tender stipulations should clearly be defined maintaining the same sequence as in the tender. Bidder shall furnish specific details / specifications of all major		

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS		
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
10.0	components, systems with Make & Model etc. Submission of technical leaflet/catalogue alone is not sufficient. General Response like – 'As per tender specifications / Technical leaflet' 'Noted' etc, or in any similar fashion is not encouraged. Quoting only the tender stipulation without any confirmation of acceptance of the same and/or without any confirmation of offering the same is also not acceptable. INSPECTION CUM ACCEPTANCE		
10.1	THIRD PARTY INSPECTION:		
	Third Party inspection of the units is to be carried out for all the component of the unit by any one of following OIL approved Third Party Inspection agencies. The bidder has to arrange and bear for the Third Party Inspection at manufacturer's plant as per the broad scope of work mentioned herein. Bidder should confirm that items/equipment/material supplied by them will be inspected by any of the following third party inspection agencies at their own cost. Third Party Inspection Report shall be submitted along with the dispatch document. Bidder to include the Third Party Inspection charges in their quoted price.		
	(i) M/s Lloyds (ii) M/s Bureau Veritas (iii) M/s Rites		
	(iv) M/s IRCLASS System and Solutions Private Limited		
	(v) M/s Tuboscope Vetco (vi) M/s DNV MES India Private Limited		
	Scope of Third Party Inspection shall be as under –		
	(i) Witness the manufacturing and assembly		

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS		
	TECHNICAL DI LON TONTO		TO BE FILLED BY THE BIDDER
Clause No	Description	BIDDER'S RESPONSE (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)
	(ii) Witness the functional and performance tests		
	(iii) Review of inspection procedure		
	(iv) Review of tests and documents related to all pressure holding equipment		
	(v) Any other requirement of the inspection agency to satisfy of the equipment as per applicable standards.		
10.2	<u>Pre-dispatch Inspection</u> : Pre shipment inspection shall be carried out by OIL (by representative of user department as well as service dept viz. Instrumentation, Logistics Dept. Field Engineering, Electrical Engineering, and representatives of state statutory bodies (state boiler authority as per IBR 1950)) at manufacturing site after accomplishment of Third-Party Inspection (TPI). The supplier shall inform OIL at least 1 (One) month ahead for such inspection to enable OIL to send its inspectors. The supplier has to arrange for inspection of the units by inspecting team including the statutory bodies (state boiler authority as per IBR 1950) at manufacturing site (In case of foreign Bidders). OIL will bear the expenses towards traveling and accommodation etc. of the OIL's inspection team. However, the inspection at manufacturing site by the statutory body (as per IBR 1950) and approval from the same will be the sole responsibility of the bidder. The expenses towards the travelling and accommodation of the representative from statutory body (as per IBR 1950) shall be borne by the bidder. Bidder has to quote the same accordingly in the inspection and commissioning charges.		
	The Inspection cum Acceptance process would include the following minimum steps/tasks but not limited to –		
	a. Physical verification / inspection of all the items / fittings / accessories including all Parts Catalogue, Maintenance & Service Manuals, Vehicle documents, etc. and actual loading on axles. The supplier shall arrange driver/operator, weighing facility and any other infrastructure during the process of inspection as and when required.		
	b. Operational testing of the carrier. c. Supplier shall have to take note of any minor modification/s for operational requirement suggested by the		
	c. Supplier shall have to take hote of any fillior mounication/s for operational requirement suggested by the		

	BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED)		
	TECHNICAL SPECIFICATIONS		
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance
		Applicable)	(Reference of Document name / Serial number / Page number of bid for documentary evidence)
	inspector and comply with the same at no extra cost.		
	d. The inspection report shall be prepared at the end of the inspection and jointly signed by both the parties.		
	e. Supplier shall confirm in writing compliance of all the points raised in the inspection report as well as any		
10.3	other subsequent additions/changes, following deliberation with the inspector after arrival at Duliajan. Supplier shall dispatch only on receipt of OIL's dispatch advice.		
11.0	TRAINING TO OIL PERSONNEL ON MSG SYSTEM:		
11.0	During installation and commissioning of the unit, the commissioning engineer shall have to provide field training		
	as well as classroom training for a period of minimum 1 (one) week to OIL's operating crew and technicians on		
	Operation, Maintenance, troubleshooting, Working Principle and repair/ replacement of different equipment.		
	Bidders shall quote their training charges for evaluation purpose as per provision in GeM portal under ICT charges.		
12.0	COMMISSIONING:		
12.1	The unit shall be commissioned at Duliajan, Assam, India with 3 (three) successful field jobs at different wells after		
12.2	arrival of the Supplier's Commissioning Engineer within a period of 03 (three) weeks time. The successful bidder shall quote for commissioning charges which shall include the to and fro charges, food &		
12.2	lodging and daily charges of the personnel. OIL will provide accommodation (on payment basis) subject to		
	availability. OIL shall provide local transportation to the commissioning personnel.		
12.3	The commissioning engineer shall be available at site within fifteen (15) days of the intimation given by OIL for		
	commissioning the unit.		
12.4	Bidders shall quote commissioning charges for evaluation purpose as per provision in GeM portal under ICT Charges.		
13.0	GUARANTEE / WARRANTY: The bidder shall offer a period of at least 1 (one) year warranty for the entire		
	equipment (including Truck chassis) supplied from the date of successful field commissioning of the entire		
	equipment. OIL reserves the right to inspect, test and if necessary, reject any part / parts after delivery at site		
	(including incomplete manuals, catalogues, etc.) in case of any fault on the part of the supplier. It shall in no way be		

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS		
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
	waived by the reason that the unit / item was previously inspected and passed by OIL as per Inspection Clause detailed elsewhere in the NIT. To keep the unit fully operational, in case of failure of any item during the warranty period, it shall be the supplier's responsibility to arrange replacement / repairing at site at their cost including customs, freight, etc. within a period of maximum 3 (three) weeks from the date of notification of such failure and warranty for such items shall be extended accordingly.		
14.0	Following documents are to be submitted along with supply for each unit by the supplier and cost in this regard, if any, shall be borne by the supplier:		
(a)	Invoice(s) in original.		
	Notwithstanding any clause mentioned elsewhere in the tender, the Invoices shall be submitted in 04 (four) parts separately as under for each complete unit for the purpose of registration of motor vehicle:		
	 (i) Invoice for the Truck chassis: It shall include the cost of the Truck chassis with driver's cabin. (ii) Invoice for the Steam Generator Unit (SGU) Housing: It shall include the cost of fabrication, mounting, etc. of the Steam Generator Unit (SGU) Housing. 		
	 (iii) Invoice for the machines, equipment, items permanently mounted in the Steam Generator Unit (SGU) Housing.: It shall include the cost of the machines, equipment, items permanently mounted in the Steam Generator Unit (SGU) Housing. (iv) Invoice for all other costs: It shall include all other costs not considered in the above (i), (ii), and (iii). 		
	Note: Vehicle Chassis Number & Engine Number shall be mentioned in invoice(s) against above Sl. No. (i), (ii) & (iii).		
	The Truck shall be purchased by the supplier in such a way that the temporary registration & subsequent permanent registration of the Truck with District Transport Office (DTO) / Regional Transport Office (RTO) can be done in the name of Oil India Limited, Duliajan, Assam-786602 without any change of ownership. The supplier shall obtain the Invoice etc. from the vehicle dealer/manufacturer accordingly.		

	BID EVALUATION MATRIX (TECHNICAL)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS		
Clause No	Description	BIDDER'S RESPONSE (Complied / Not Complied/Deviation / Not	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks/compliance
		Applicable)	(Reference of Document name / Serial number / Page number of bid for documentary evidence)
(b)	Sale Certificate, Emission Certificate, Initial Road Worthiness Certificate in Form 21, 22 & 22(A), Temporary Registration Certificate as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India; valid certification against Speed Limiting Device (SLD), valid certification against VTS/GPS etc. in original in the name of Oil India Limited, Duliajan, Assam-786602 for permanent registration of the vehicle in the name of Oil India Limited, Duliajan, Assam-786602 (India) with local government District Transport Office in the state of Assam (India).		
	The place, code of the permanent registration shall be intimated nearer the time.		
(c)	Any other documents as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India required for registration of the vehicle with government District Transport Office in the state of Assam (India) during the period of delivery of the vehicle.		
(d)	Any manuals/documents (such as Owner's manual) etc. supplied by the vehicle manufacturer.		
(e)	ASME/IBR-1950 certificates of Boiler & Pressure parts.		
15.0	 NOTES TO THE BIDDERS: a. The supplier shall provide a tool kit for operation and maintenance of prime mover, boiler & instrumental panel. b. 'OIL' logo will have to be marked prominently on both sides of the boiler house. 		
	c. The bidder has to mention the names of manufacturer of all items quoted. All the items offered shall be from manufacturers as mentioned in the tender at the relevant places.		
	d. The bidder shall do the packaging of the unit in such a manner that all the equipment are easily accessible and removable for regular operation & maintenance.		
	 e. The supplier shall obtain permission from the IBR, Assam for operating the boiler in OIL's operational area. f. To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected. 		

	BID EVALUATION MATRIX (TECHNICAL)			
	(TO BE FILLED IN BY BIDDER DULY SIGNED) TECHNICAL SPECIFICATIONS			
			TO BE FILLED BY THE BIDDER	
Clause No	Description	BIDDER'S RESPONSE (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)	
	g. Oil India Purchase order no must be engraved on the body of the item. Bidder must confirm the same categorically in their quotation.			
16.0	DELIVERY:			
(a)	Notwithstanding any clause(s) on delivery mentioned elsewhere, the complete Truck Mounted Horizontal Mobile Steam Generator (MSG) unit as per tender/ order requirements, specifications, fitments and accessories etc. shall be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) by the supplier through their own arrangement, cost & risk. The date of reporting of the Truck Mounted Horizontal Mobile Steam Generator (MSG) unit in Oil India Limited, Duliajan, Assam-786602 shall be considered as the actual date of delivery.			
(b)	Temporary Registration Certificate (if applicable) shall be arranged & supplied by the supplier as per The Central Motor Vehicles Rules, 1989 and Motor Vehicle Act, 1988 of India required for delivery [in Oil India Limited's premises at Duliajan, Assam-786602 (India) from supplier's destination] & subsequent permanent registration of the Truck Mounted Horizontal Mobile Steam Generator (MSG) unit. Temporary Registration shall be done in the name of Oil India Limited, Duliajan, Assam-786602 (India) by the			
	supplier at their cost. The place, code of the permanent registration shall be intimated nearer the time. Cost of permanent registration shall be borne by Oil India Limited.			
(c)	The supplier shall ensure that the vehicle shall be mobilized for delivery with all valid documents like Temporary Registration, Insurance as applicable, Driver's Licence (as applicable) etc. Oil India Limited (OIL) shall no way be held responsible for any loss, damage of the vehicle under any circumstances. If required, Oil India Limited (OIL) can arrange third party Motor Vehicle Insurance at the cost of Oil India Limited (OIL) on receipt of advance intimation & necessary document from the supplier.			
17.0	VAHAN portal database, Permanent Registration & High Security Registration Plate (HSRP) Kit: The bidder/supplier shall ensure that, the vehicle manufacturer shall enter the vehicle details in the portal "VAHAN" of Ministry of Road Transport & Highways (MoRTH), Government of India in accordance to Motor Vehicle Act, 1988 & Central Motors Vehicles Rules, 1989 of India prior to delivery of the vehicle. On receipt of the vehicle as per the			

BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED) **TECHNICAL SPECIFICATIONS** TO BE FILLED BY THE **BIDDER Relevant Location of their BIDDER'S RESPONSE** Bid to support the Clause (Complied / Not remarks/compliance Description Complied/Deviation / Not No Applicable) (Reference of Document name / Serial number / Page number of bid for documentary evidence) purchase order and documents required for permanent registration, Oil India Limited shall apply for permanent registration of the vehicle at the office of the local government District Transport Office (DTO). On receipt of the government registration number, Oil India Limited shall inform the government registration number to the bidder/ supplier. The supplier shall supply the High Security Registration Plate (HSRP) Kit for the vehicle through the dealer/vehicle manufacturer or any other party authorized to issue the HSRP Kit. Cost of High Security Registration Plate (HSRP) Kit shall be borne by the bidder / supplier. 18.0 Payment terms: As mentioned elsewhere in the tender. Form 21, Form 22 & Form 22A of Central Motor Vehicle Rules, 1989 to be provided by the supplier. Sample Copy 19.0 enclosed. **CHECKLIST** Whether quoted as manufacturer? 1.0 2.0 Whether quoted as OEM Dealer/Supply House? 3.0 If guoted 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? Whether agreed to the tender warranty clause of the tender? 4.0 Whether submitted **EMD/Bid Security within the bid closing date** as per tender requirement? 5.0 6.0 Whether quoted a firm delivery period as per the tender requirement? 7.0 Whether confirmed to submit PBG as asked for in tender? 8.0 Whether Bid Security submitted as per requirement of the tender? 9.0 Whether confirmed Bid Validity as per the tender requirement? 10.0 Whether confirmed Payment Terms as per the tender? Whether guoted as MSE unit? If yes, whether necessary document submitted? 11.0

BID EVALUATION MATRIX (TECHNICAL) (TO BE FILLED IN BY BIDDER DULY SIGNED) **TECHNICAL SPECIFICATIONS** TO BE FILLED BY THE BIDDER **Relevant Location of their BIDDER'S RESPONSE** Bid to support the Clause (Complied / Not remarks/compliance Description Complied/Deviation / Not No Applicable) (Reference of Document name / Serial number / Page number of bid for documentary evidence) 12.0 Whether submitted Integrity Pact duly signed and sealed as per **PROFORMA – D?** 13.0 Ministry of Finance of Govt. of India, Department of Expenditure, Public procurement Division vide office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020(order-Public Procurement no.1) has proclaimed the insertion of Rule 144 (xi) in the General Financial Rules (GFRs), 2017 w.e.f. 23rd July, 2020 regarding restrictions on procurement from a bidder of a country which shares a land border with India on the grounds of defence of India on matters directly or indirectly related thereto including national security. Bidders are requested to take note of the office memorandum and submit their offers accordingly, wherever applicable. In this regard, bidders must submit duly sealed & signed undertaking as per format provided vide, PROFORMA -F(I), F(II) & F(III) along with the technical bid. Whether uploaded along with the bid? Whether indicated the country of origin for the items quoted? Please mention the "Country of origin" under 14.0 Remarks here. Whether submitted format of undertaking by bidders towards submission of authentic information/ documents as 15.0 per PROFORMA - H

Whether copy of the SFMS message for Bid Security/ EMD as sent by the issuing bank branch submitted along with

Whether submitted undertaking by bidders towards submission of authentic information/documents (PROFORMA

Whether submitted Proforma of Declaration of Blacklisting / Holiday Listing (PROFORMA – G)?

Whether submitted undertaking for bidders financial standing ((PROFORMA – L)?

16.0

17.0

18.0 19.0

20.0

-J)?

the original bank guarantee?

Whether submitted undertaking for Local Content (PROFORMA E)?

<u>ANNEXURE – V</u>

	BID EVALUATION MATRIX (BID REJECTION CRITERIA) (TO BE FILLED IN BY BIDDER DULY SIGNED)				
	BID EVALUATION CRITERIA				
Clause Number	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER 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	BRC-TECHNICAL				
1.0	The bidder shall be the Designer & Manufacturer of the tendered item. OR The bidder shall be a Dealer/Distributor/Sole Selling Agent/ Authorized Packager of the Designer & Manufacturer of the tendered item. Note: a) Tendered Item: Mobile Steam Generator Unit. b) The Designer & Manufacturer shall be in business of manufacturing of Mobile Steam Generator Unit for last 05 years prior to Bid Closing date of this tender. Documentary evidence in this regard must be submitted along with the Technical Bid as per para 2.3. c) Bidders other than Designer & Manufacturer of Mobile Steam Generator Unit must submit a valid Authorization letter and back-up warranty from the Designer & Manufacturer. The Authorization letter must be duly sealed & signed by the Designer & Manufacturer on their official letter head clearly mentioning the status of the Bidder. d) The Dealer / Distributor / Agent / Authorised Packager shall categorically confirm in their technical bid that the offered Designer & Manufacturer of tendered item will not be changed after submission of the bid.				
2.0	BIDDERS' EXPERIENCE:				
2.1	In case the Bidder is the Designer & Manufacturer of tendered item, the bidder shall have the experience of successful execution (supply, installation and commissioning) of minimum 01 (one) no. of the tendered item in last seven (07) years preceding the original bid closing date of this tender to any E&P Company/Oil & Gas Company or Service Provider to an E&P company/Oil & Gas Company, either by themselves or through their agent/distributor/ dealer/ authorized packager and documentary evidences in this regard must be submitted along with the Technical Bid as per para 2.3.				

BID EVALUATION MATRIX (BID REJECTION CRITERIA) (TO BE FILLED IN BY BIDDER DULY SIGNED) **BID EVALUATION CRITERIA** TO BE FILLED BY THE BIDDER BIDDER'S RESPONSE Relevant Location of their Bid to Clause (Complied / Not Complied support the remarks / compliance DESCRIPTION Number /Deviation/Not Applicable) (Reference of Document name / Serial number / Page number of bid for documentary evidence) In case the Bidder is a Dealer/Distributor/Sole Selling Agent/ Authorized packager of the Designer & 2.1(i) Manufacturer of tendered item, the following criteria shall be met by the Bidder: The Bidder as a Dealer/Distributor/Sole Selling Agent/ Authorized Packager shall have the experience of successful execution (supply, installation, and commissioning) of minimum 01 (one) no. of the tendered item in last seven (07) years preceding the bid closing date of this tender to any E&P Company/Oil & Gas Company or Service Provider to an E&P company/Oil & Gas Company. Note: The bidder's experience of successful execution of the Mobile Steam Generator Unit as above in clause 2.2 (i) where the Designer and Manufacturer other than the offered Designer & Manufacturer of the tendered item will also be accepted. Their Designer & Manufacturer must also meet the experience criteria set out in para 2.1 above and 2.1(ii) 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

The following documentary evidence to substantiate the above experience criteria (para 2.1 and 2.2, as applicable) must be submitted along with the technical bid, failing which the Bid shall be treated as incomplete and rejected: 2.3.1 (a) Copy of Purchase order(s)/contract(s) awarded by Client(s) (b) Completion certificate from the client (on Client's/User's official letter head with signature & stamp) (c) Any other documentary evidence that proves the successful execution of the Purchase order(s)/contract(s) as mentioned in point (a). 2.3.2 In case experience credentials are 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/Oil & Gas Company for which the tendered item has been utilized. Alternatively, 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/Oil & Gas Company for which the tendered item has been utilized for providing service.

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

BID EVALUATION CRITERIA

	BID EVALUATION CRITERIA		TO BE FILLED BY THE BIDDER
Clause Number	DESCRIPTION	BIDDER'S RESPONSE (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)
2.3.3	The bidder who fulfils relevant experience criteria as per clause no. 2.1 or 2.2 (as applicable), vide execution of past orders for Oil India Limited, and their performances are found suitable, need not submit all credentials of past supply experience. For consideration of the above, the bidder has to provide a list of OIL's past purchase orders, with quantity supplied and specifications, which have been received at OIL and found suitable. It may be noted that fulfillment of required quantity for experience criteria vide clause no. 2.1 and 2.2 above is a must and only the quantity received by OIL and found suitable will be considered for the purpose stated above.		
2.3.4	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.		
2.3.5	The service provider to an E&P company/Oil & Gas Company shall mean company who has bought the tendered item and has provided service to an E&P company/Oil & Gas Company utilizing the tendered item.		
2.3.6	Original Bid Closing Date shall be considered for evaluation of BRC Criteria in case of any extension of the bid closing date.		
2.3.7	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.		
2.3.8	A supply order executed by a bidder for its own organisation/subsidiary cannot be considered as experience for the purpose of meeting BEC.		
3.0	DELIVERY PERIOD: Delivery to be completed within 365 days from the date of placement of order by OIL. The date of receipt of materials at site shall be considered as the date of delivery. Bidders must categorically confirm the above in their Technical Bid. Installation & Commissioning of the Mobile Steam Generators shall be completed within 21 DAYS from the date of receipt of site clearance from OIL. Bids submitted by Bidders quoting delivery period more than the abovementioned duration shall not be accepted. Bidders must categorically confirm the delivery period in their Technical Bid.		

	BID EVALUATION MATRIX (BID REJECTION CRITERIA)		
	(TO BE FILLED IN BY BIDDER DULY SIGNED) BID EVALUATION CRITERIA		
Clause Number	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
A.2	BRC - FINANCIAL:		
1.0	The bidder must have an annual financial turnover from Operations of minimum INR 2,11,76,699.00 during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender Audited Annual Reports.		
	[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 - A) 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 document must be submitted along with the technical bid:-		

	BID EVALUATION MATRIX (BID REJECTION CRITERIA) (TO BE FILLED IN BY BIDDER DULY SIGNED)			
	BID EVALUATION CRITERIA			
Clause Number	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)	
	 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 – B)			
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 100% 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 should be in line with Para A.2 (1.0) above. (ii) Net Worth of the parent/ultimate parent/holding company should be positive in line with Para A.2 (2.0) above (iii) Corporate Guarantee (PROFORMA - C) on parent/ultimate parent/holding company's 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) Documents to substantiate that the bidder is as 100% subsidiary of the parent/ultimate parent/holding company.			

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

BID EVALUATION CRITERIA

	BID EVALUATION CRITERIA		
Clause Number	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location of their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
A.3	BRC - COMMERCIAL		
1.0	Bids are invited under SINGLE STAGE TWO BID SYSTEM . Bidders should upload Techno-Commercial Bid (Unpriced Bid) and Priced Bid separately at the designated fields assigned in GeM Portal. 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. 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 discounts.		
3.0	Bids received in physical form 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 90 days from the date of actual Bid Closing Date. Bids with lesser validity shall be straightway rejected.		
6.0	Bidders must confirm that goods/materials to be supplied against the order arising out of this tender shall be of recent make, unused, of the best quality & workmanship and free from defects. The Bidder must undertake to stand guaranteed for the materials as called for in the tender. Defective goods/materials rejected by OIL, whether the entire lot or part thereof, shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.		
7.0	Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Security must be valid for a period as called for in the tender document. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.(Please refer Annexure – III: GENERAL NOTES TO BIDDERS)		
8.0	Bids must be accompanied by Bid Security for the amount as mentioned in the tender document and shall be in the prescribed format (PROFORMA – G) if submitted in the form of Bank Guarantee (BG). Bid Security may also be paid through online payment mode. Bid Security must be submitted within the scheduled Bid Closing date and time of the Tender, failing which the bid may be treated as incomplete and may lead to		

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

BID EVALUATION CRITERIA

			TO BE FILLED BY THE BIDDER
Clause Number	DESCRIPTION	BIDDER'S RESPONSE (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)
	rejection of the bid without making any reference to the bidder. The amount of Bid Security (EMD) must		,
	be strictly as specified in the tender document. Bid Security if submitted in the form of BG/e-PBG must be		
	valid at least for a period of 135 days from the date of original bid closing date of the tender. Bid shall be		
	rejected without further reference, if the Bid Security (EMD) is not received strictly as above, except where		
	exempted. OIL will not assume any responsibility whatsoever for submission of deficient/faulty Bid		
	Security or for delay/non-delivery of the same (Please refer Annexure – III: GENERAL NOTES TO BIDDERS).		
9.0	Bid must be uploaded together with the Integrity Pact (If applicable against the tender) and the same must		
	be duly signed digitally. If any bidder refuses to sign Integrity Pact or declined to submit Integrity Pact,		
10.0	their bid shall be rejected straightway (Please refer Annexure – III: GENERAL NOTES TO BIDDERS).		
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		
	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.		
