



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/5173303
Dated/दिनांक : 18-07-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	14-08-2024 13:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	14-08-2024 13:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	120 (Days)
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	1
Item Category/मद केटेगरी	CABLE LESS SEISMIC DATA ACQUISITION SYSTEM
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
Comprehensive Maintenance Charges Required	Yes
Type of Bid/बिड 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

Bid Details/बिड विवरण	
Inspection to be carried out by Buyers own empanelled agency	Yes
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/वित्तीय दस्तावेज की आवश्यकता है।	Yes

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	ICICI
EMD Amount/ईएमडी राशि	22041032

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).	24

(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 कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज प्रस्तुत करने है। एमएसई कैटेगरी 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 :

CGM- 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
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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 will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal 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 themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. 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 and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. 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 MSE 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. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

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.

Pre Bid Detail(s)

Pre-Bid Date and Time	Pre-Bid Venue
02-08-2024 09:00:00	OIL INDIA LIMITED, DULIAJAN, ASSAM 786602

CABLE LESS SEISMIC DATA ACQUISITION SYSTEM (1 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 Document/क्रेता विशिष्टि दस्तावेज़	Download
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Comprehensive Maintenance	
Warranty of required product	1 Year
Comprehensive Maintenance Duration (Post Warranty)	6 Year

*Warranty displayed under the AMC/CMC Details section will supersede the warranty displayed under the catalog specification

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	1%
Number of days allowed for ICT after site readiness communication to seller	28 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	Chandana Phukan	786602,Oil India Limited, Duliajan, Assam	1	180

Buyer added Bid Specific Additional Scope of Work

S.No.क्र.सं.	Document Title	Description	Applicable/रिक्स प्रभार के अनुसार जीएसटी i.r.o. Items
1	Technical Specification & BRC View	Technical Specification & BRC	CABLE LESS SEISMIC DATA ACQUISITION SYSTEM(1)
2	GCC for AMC View	GCC for AMC	CABLE LESS SEISMIC DATA ACQUISITION SYSTEM(1)

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

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

10. **Scope of Supply**

Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

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**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

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. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and

resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

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. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
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.

Additional Clause For Comprehensive Maintenance Charges

- 1.CMC shall include preventive maintenance including calibration as per technical/ service /operational manual of the manufacturer, service charges and spares, after satisfactory completion of Warranty. During the CMC period commencing from date of the successful completion of warranty period, Service personnel shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, at least once in six months or as per user requirement. Cost of consumables shall not be included in CMC. Further there will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- 2.CMC charges to be indicated as percentage of cost of equipment quoted for each year after the warranty period.
- 3.GST shall be included in the CMC Charges quoted.
- 4.Cost of CMC will be added for Ranking/Evaluation purpose with depreciation formula. A 10% discounting rate per year shall be applied on CMC Charges for price evaluation on Net Present Value.
- 5.The payment of CMC will be made on quarterly basis after satisfactory completion of said period, duly certified by end user.
- 6.While creating a bid or RA, buyers shall indicate whether CMC is required against Yes/No" options. If CMC Charges are included, an option for number of years for CMC required after the warranty period shall be available. Under this option up to 10 years can be chosen for CMC charges beyond warranty period.
- 7.In case the bid has a provision for CMC, the warranty of the product will also be deemed to have been converted into Comprehensive warranty including preventive maintenance and calibration as per technical/ service /operational manual of the manufacturer, service charges and spares, during the Warranty Period also. Sellers are therefore advised to include the cost of Comprehensive Warranty including spares (excluding consumables) also in product Cost.
- 8.The CMC functionality shall be available in bid only and no direct RA shall be applicable. In case of bid to R/A decrement rules shall be applicable on total price inclusive of CMC charges. Bunching of products shall not be available while creating bids with CMC charges.

8.1. Buyer shall indicate number of years of warranty by selecting different options available in the field depending on warranty parameter applicable in category parameters for the equipment. No. of years of warranty indicated here shall supersede the warranty period indicated elsewhere in bid or product specifications. The Seller while participating in Bid/RA will get fields to indicate CMC charges as percentage depending on number of years of CMC selected by Buyer. The following shall be applicable, if 5 year CMC selected:

- CMC charges for 1st year after warranty period- Percentage to be indicated- A1
- CMC charges for 2nd year after warranty period- Percentage to be indicated- A2
- CMC charges for 3rd year after warranty period - Percentage to be indicated- A3
- CMC charges for 4th year after warranty period - Percentage to be indicated- A4
- CMC charges for 5th year after warranty period - Percentage to be indicated- A5

Similarly, A6 to A10 are to be indicated for 6th to 10th year of CMC if applicable.

8.2. The calculation of CMC Charges shall take into account the number of years of warranty and duration of CMC as specified while creating bid.

8.3. In the price evaluation, the system shall provide function to calculate the cost of each equipment by formula indicated below including CMC and then show the inter-se-ranking of the bidders. The following are the variables

- (i) Number of years for which CMC required.
- (ii) Number of years of product warranty

The formula for calculating total cost including CMC charges shall be as under:

Total Cost for evaluation=

$C + C * \{ (A1/100)/(1.10^n) + (A2/100)/(1.10^{n+1}) + (A3/100)/(1.10^{n+2}) + (A4/100)/(1.10^{n+3}) + (A5/100)/(1.10^{n+4}) \}$ and so on

C - Cost for equipment quoted and n shall be number of years of product warranty specified.

If 2 year warranty specified, n shall be 2 and if 5 year warranty specified, n shall be 5. A1, A2, A3, A4 & A5 shall depend on how many years CMC selected. For 3 year CMC, only A1, A2 and A3 factors are to be taken into account and A4 and A5 will not be applicable.

8.4. CMC charges offered for each subsequent year should be same or higher than preceding year.

8.5. The CMC charges shall be offered within range of 3 to 10% of cost of equipment.

9. Since CMC charges are to be paid only later for each year during CMC period, applicable performance guarantee amount after placement of contract shall be based on the cost of equipment excluding the cost of CMC Charges.

10. Performance bank guarantee applicable for CMC is to be submitted at start of the CMC and shall be applicable between 2.5% to 10% as specified in bid on total CMC Charges. The PBG submitted after award of contract shall be released only after new PBG for the CMC period is submitted and accepted by buyer/consignee after due verification. Bank guarantee for CMC is to remain valid till completion of CMC period plus one year. The bank guarantee for CMC shall be submitted to buyer directly. In case, seller fails to submit the PBG or does not provide services for the CMC contract after expiry of warranty period then PBG of equipment shall be forfeited.

11. In case of splitting of order quantity, equipment cost and CMC charges offered by L1 bidder shall be matched by higher quoting eligible bidders on one-to-one basis. The equipment cost and CMC charges (year to year) shall be matched individually.

12. The CMC Contract shall be an offline contract to be handled by buyer. The payment of CMC will be made on quarterly basis after satisfactory completion of said period, duly certified by end user and scope of CMC will be as per para 1 above.

13. CMC Charges are inclusive of all the charges for Transportation, Lodging, Boarding, all insurances including third party insurance and all other incidental charges. The same shall include GST. The prices also include cost of spares and damaged parts. Purchaser does not have any liability, whatsoever, over and above the cost of CMC. It also includes for arranging hand tools & tackles, special tools etc. required to carry out the work.

[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 कार्यवाई का आधार होगा।

---Thank You/धन्यवाद---



ANNEXURE - I

CABLE LESS SEISMIC DATA ACQUISITION SYSTEM

DETAILS OF ENCLOSURES

- | | | |
|--|---|---|
| 1. Technical specifications | - | Section I |
| 2. Main Seismic Data Equipment | - | Section IA |
| 3. Truck mounted Data Harvesting & Charging
Cabin with Equipment | - | Section IB |
| 4. Generators including Utility Vehicle mounted Generating Set | - | Section IC
(Annexure (IC) 1 & (IC 2) |
| 5. Peripherals items | - | Section ID |
| 6. Truck mounted Recorder Cabin | - | Section IE |
| 7. Spare and Repair Kit | - | Section IF |
| 8. Pre dispatch Inspection, Delivery, Installation & Commissioning
& Training | - | Section IG |
| 9. Product Support, Warranty & AMC | - | Section IH |

SECTION-I

TECHNICAL SPECIFICATION OF ONE (1) NUMBER OF CABLE LESS SEISMIC DATA ACQUISITION SYSTEM

1.0 SCOPE

The scope of the tender is to supply One (1) no. new generation, field proven state-of-art, 24-bit delta-sigma technology-based Land Cableless Seismic Data Acquisition System capable of acquiring 2D and 3D Seismic Data in different terrain.

2.0 GENERAL

- 2.1 The seismic data acquisition system should be complete as per specifications/detail requirement given herewith (underneath) and be ready for the deployment in the field. The system should comprise of all basic components and other necessary ancillary hardware & software components fully compatible with offered ground electronics, shooting system, data harvesting device and communication devices etc. for full-fledged multiline field operation.
- 2.2 Irrespective of the specifications/detail requirement given herewith (underneath) bidder should ensure that the system is fully operational with the deployment of minimum 12000 channels. If any additional items are required for the purpose, bidder need to provide/quote the same.
- 2.3 The central recording/controlling system (including human-machine interface /operator console) should be duly interfaced and compatible with the seismic data storage device (Rugged Internal Storage devices or External Storage Devices with RAID 5 & RAID 1 or higher available configuration respectively), data harvesting system, shooting systems, radios/walkie-talkie for two way communication, peripheral equipment like printer(s), LED monitors (to display operational spread management, field QC test results etc.), and other modules/accessories necessary to operate the system optimally as per the specifications/requirements. The Central recording/controlling system should be mounted on suitable shock mounts to withstand the shocks & vibrations encountered during transportation in cross country. The entire central recording/controlling system should be mounted in an adequately & properly air-conditioned cabin.
- 2.4 The seismic data acquisition system should be capable of multi-line operations and allow selection of requisite nos. of channels per line/swath for 2D/3D seismic work. The system implies, unless otherwise explicitly mentioned, cable less seismic data equipment (**Section – IA**, item 3.0), recording equipment (**Section–IA**, item 4.0), ground electronics (**Section – IA**, item 5.0), data harvesting unit (**Section–IB**, item 8.0 & 9.0) and product support (**Section–IH**, item 18.0, 19.0 & 20.0) capable of recording 2D/3D seismic data.
- 2.5 The system should have the capability of up gradation to minimum 20000 channels & should also offer the facility to upgrade the central recording/controlling unit, Harvesting unit and related software accordingly.
- 2.6 The system should work on user-friendly menu driven software. The details of the software along with number of channels supported per license for data acquisition should be enclosed in the documentation with the offer. The details of all the other offered software required for field QC status, field management, shooting operation and data harvesting /data transcription etc. along with licenses should also be documented & enclosed with the offer.
- 2.7 The supplied system shall have easy to use graphical user Interface with capability of providing graphical & numeric display of the acquisition spread configuration and on the fly QC status and fault detection of data acquisition station units/links (GPS, Battery, WLAN frequency signal, self-diagnostic test), Power Supply Units, Batteries, Geophones etc. at the ground station unit level.
- 2.8 Appropriate number of Data Acquisition Station Units should be supplied as mentioned vide **Section– IA, item 5.1.**
- 2.9 The data acquisition station units, ground electronics for land seismic should be rugged for field use and should be waterproof (IP67 or higher rating).

- 2.10 Central Controlling/recording/harvesting unit should be capable of initializing and setting-up of recording parameters of the data acquisition units/Links and the acquisition system should have the facility to record 2D/3D data in cable less mode.
- 2.11 The acquisition system inclusive of all the ground electronics offered should be of the latest make & model available at the time of bid submission.
- 2.12 All the peripheral equipment and accessories offered along with the seismic data acquisition system and ground electronics should also be of the latest make & model available at the time of bid submission if otherwise not stated specifically.
- 2.13 In case the system offered during the bidding gets obsolete at the time of supply bidder shall supply latest make & model available acquisition system inclusive of all the ground electronics, peripheral items, and accessories.
- 2.14 The acquisition system should support impulsive energy source (Dynamite) controller as well as non-impulsive energy source (Vibrator) controller during seismic data acquisition.
- 2.15 It shall offer the facility for recording data using Low Distortion High Performance digital sensors.
- 2.16 The supplied system shall support GPS based multiple radio blasters and the supplied GPS based shooting systems shall enable precision in positioning of shot co-ordinates with a positional accuracy of less than 1 m (meters).
- 2.17 If Oil India Limited (OIL) desires to buy any additional items (manufacturer items) quoted in the bid after the placement of firm order to the respective bidder, the bidder shall provide the items at the same rate, terms & condition to Oil India Limited (OIL) upto maximum 100% of the tendered quantity. However, such order will be placed within two years from the date of completion of Installation & Commissioning of Equipment.

SECTION - IA

NODE BASED SEISMIC DATA ACQUISITION EQUIPMENT

3.0 SEISMIC DATA ACQUISITION EQUIPMENT

- a) Acquisition units : 12000 nodes
- b) Number of channels per ground station : 1(One)
- c) Sources Compatibility : Impulsive (Dynamite) & non-Impulsive (Vibrator)
- d) No. of bit digitization : 24 bit or higher digitization
- e) Operation Mode : Autonomous
- f) Recording Mode : Continuous
- g) Sensor Compatibility : Digital
- h) Clock Synchronization : GPS
- i) Timing Accuracy : $\leq 20 \mu\text{s}$
- j) Communication : Suitable technology*
*(*For communication between Node, QC tool and central recording/controlling system)*

- k) Internal Memory size (Node) : 16GB or Higher
- l) Battery (Node) : Internal
- m) Quantity of battery chargers : Optimized as per requirement estimated for proposed nos. of batteries against serial no. (l) plus 20% spare.
- n) Battery charger specifications : Smart battery chargers as required.
- o) Operating temperature range : -30°C to $+60^{\circ}\text{C}$
- p) Field QC tools* : At least 50 numbers of Field QC tools compatible with ground station units proposed for wireless field status collection need to be provided.
- q) The Field QC system communicating Field QC Status of nodes to Central Recording/ controlling system through suitable technology** needs to have minimum following features:
 - i. GPS /Battery/Position/ available memory/station unit identification log status
 - ii. Noise/harmonic distortion/channel response
 - iii. Common Mode Rejection
 - iv. Sensor noise, tilt, distortion, leakage, natural frequency, damping, etc.

** Vendor should specify their technology for logging and transfer of QC data from Node to Field QC tool and vice versa. Necessary documentation in this regard needs to be submitted.*

***Vendor should specify their technology for communication between Field QC tool to Central Recording/controlling system.*

4.0 RECORDING EQUIPMENT

4.1 CENTRAL RECORDING / CONTROLLING UNIT – 2 Nos.

The central recording system with minimum components:

- a) Central Station Computer
- b) Quality Control Computer (Real time Spread QC results)
- c) Central Radio Unit
- d) Suitable Communication Tool
- e) Source Encoder/Decoder
- f) Data Storage Devices

4.1.1 Channel capacity: Software License for recording minimum 20,000 channels at 2ms Sample Interval (SI) for both impulsive and non-impulsive operation.

4.1.2 Multiline capacity: Atleast 24 seismic lines.

4.1.3 Sample rate: 1, 2 and 4 milliseconds.

4.1.4 Auxiliaries Channels: Minimum 4.

4.1.5 Instruments Test: Selected and auto analysed in field, Facility for self-diagnostic and fault detection for Central Recording Unit. Provision with tools for testing of QC programmed parameters for individual field units along with instrument test data analysis.

4.1.6 Recording Length: Selectable up to 25 seconds @ Sample intervals (SI) mentioned in clause 4.1.3.

4.1.7 External Storage (2 no.): Ground Electronics QC status / Log file data storage facility to be provided with suitable external storage device compatible with the main central recording equipment with having actual storage capacity of minimum 2TB or more.

Note: *It is a prerequisite that redundancy & integrity of the Ground Electronics QC status / Log file data is to be maintained.*

4.1.8 Recording Format: SEG D and/or SEG Y.

4.1.9 SPS Import & Export - System and the associated application software should have the facility for Import & Export of Receiver, Source & Relation files in industry standard formats (viz. SPS, SEG-P1, etc.), logging of observer's parameters etc.

4.1.10 Acquisition Spread Configuration: (applicable in coordination of **Section-IA**, item 4.1.b only)

- a) Central Station Computer must have graphical user interface (GUI) based system management facility. The computer must have the capability of providing graphical & numeric display of the acquisition spread configuration and should provide on the fly QC (Quality) status and fault detection of various field units.
- b) Minimum Four numbers (4 Nos.) of colour LED monitors [size 24-inch flat screen (viewable or bigger)] should be provided to the observer for spread management, source operation control, monitoring of external storage utilities, spread quality control by analysis of spread status data etc. Moreover, Central Station Computer have the capability for analysis of Spread Quality control test data acquired by Cableless equipment for acquisition spread configuration.

4.1.11 System & Application Software

- a) The system should be complete with hardware & application software, required for operations, maintenance and management of acquisition spread deployed in the field. The system should have an extensive line management facility.
- b) The system & application software should be capable of providing real time source positions when used with GPS based shooting systems. However, normal shooting option via SPS file/industry standard relation file with pre surveyed points must be available with proposed system.
- c) All software must be supplied on DVD/USB Drive.

4.1.12 Ground Station Unit self-diagnostic test: The following system tests including data quality control must be available at ground station level during complete layout of the spread through standard line tester at ground station level:

- a) Leakage, continuity
- b) Impulse response
- c) Battery voltage status
- d) Noise and distortion
- e) Hardware diagnostic tests etc.
- f) GPS status
- g) Transmitting signal strength

- 4.1.13** The necessary interface, hardware, software, drivers, licenses, or dongle as may be required to display the field QC status data to Central Recording/Controlling Unit should be provided.
- 4.1.14 DVD Writer:** DVD R/W or DVD R drive should be interfaced with the system to load application software as and when required.
- 4.1.15 User Interface:** Graphical Users Interface with keyboard, mouse, minimum 24-inch colour LED monitor and all other associated accessories.
- 4.1.16 Blaster support:** The system should support GPS based multiple radio blasters and the GPS based shooting systems should enable precision in positioning of shot co-ordinates with a positional accuracy of less than 1 m (meters).
- 4.1.17 Power Requirement:**
- a) SMPS should be provided for operating the system on 220 V AC + 10% & 50 Hz + 1 Hz.
 - b) Additionally, the power system should also provide 12V DC required for operating equipment mounted in the cabin viz. shooting system, communication radio, etc.
- 4.1.18 Operating Environment:** The central controlling/recording unit should be able to withstand operating temperature from -30°C to 60 °C and 0% to 100% relative humidity (non-condensing).

4.1.19 Vibrator support:

- a) The central controlling/recording unit should have all the hardware & software for recording Vibroseis data. It should have the capability to generate source-correlated data that will be recorded as Shot records in the disk or in the recording media during data acquisition in field.
- b) The system should have all the hardware and necessary software for carrying out spread quality control while acquiring Vibroseis dataset (wherever applicable).
- c) The hardware of the central controlling/recording unit should have all the necessary interface facility for supporting and connecting Vibrator Control electronics so that if required by the user in future, it is possible to connect vibrator control electronics to the central controlling/recording unit by additional hardware or software if any.

Note: *Irrespective of the specification/detail requirement given herewith vendor should ensure that the system is fully operational with the deployment of minimum 12000 channels. If any additional items required for the purpose, vendor need to provide the same, without any extra cost to OIL.*

5.0 GROUND ELECTRONICS

5.1 DATA ACQUISITION STATION UNIT: Data Acquisition Station Unit required to layout a total of 12000 channels for seismic data acquisition including digital geophones.

- | | |
|-----------------------------------|---|
| (a) Channels Capacity | : 1 channel per Data Acquisition Station Unit |
| (b) Sample Interval | : 1, 2 and 4 milliseconds. |
| (c) Recording Mode | : Continuous |
| (d) Sensor Compatibility | : Digital |
| (e) Clock Synchronization | : GPS |
| (f) Timing Accuracy | : ≤ 20 μs |
| (g) Power Supply | : Internal battery |
| (h) Operating Environment | : Operating temperature between -30°C to + 60°C |
| (i) Storage Environment | : Storage temperature between -30°C to + 60°C |
| (j) Humidity Range | : 0 to 100% |
| (i) Time Stamping | : GPS disciplined clock synchronization |
| (ii) Communication with CRU | : Suitable technology to view Node QC at CRU/CCU. |
| (k) Flash Memory per Station Unit | : 16 GB or Higher |
| (l) Indicator | : LED Status Indicator |
| (m) IP rating | : IP 68 or higher |

5.1.1 Ground Station Unit (node) self-diagnostic test: The following system tests including data quality control shall be available at ground station (node) level during complete layout of the spread through supplied standard QC tool at ground station level:

- a) Leakage, continuity,
- b) Impulse response,
- c) Battery voltage status,
- d) Noise,
- e) Distortion,
- f) Tilt, Phase,
- g) Hardware diagnostic tests etc.,
- h) GPS status,
- i) Transmitting signal strength

5.2 GEOPHONE SPECIFICATION:

5.2.1 High-performance Industry standards single component digital geophones only should be provided. The quoted geophones should be fully compatible with seismic data acquisition system along with interface.

The geophones offered should have the following technical specifications:

Geophone Type	: Digital
Sensor per station	: 1 (One)
Bandwidth	: 0-400 Hz or higher
Noise	: $\leq 0.3 \mu\text{m/s}^2 / \sqrt{\text{Hz}}$ (30nG/ $\sqrt{\text{Hz}}$)
High-Cut Filter	: ≥ 0.8 Nyquist
Distortion	: ≤ -100 dB
Full Scale (Peak)	: $\geq 3.3 \text{ m/s}^2$ (335 mG)
Dynamic range	: ≥ 116 dB
Polarity	: Standard SEG
Operating Temperature	: -30°c to+ 60°c

Note:

- (a) *As the geophones are used in difficult field conditions, the bidder should quote rugged field proven industry standard products. In case, the bidders of main seismic data acquisition system (or their subsidiary) are manufacturing and selling their own geophones, the same may be offered. However, these should meet the technical specification as given above.*
- (b) *In case, the single component digital geophones are not manufactured by the bidders of the main seismic data acquisition system, the bidder should offer fully compatible, rugged, and field proven industry standard products only which have been used by exploration and / or geophysical service company (ies) successfully during last three years. The geophones offered should comply with the technical specifications given above. The bidder has to submit certificate from the user(s) in this regard. The responsibility of such products will rest with the main bidder.*

5.3 GPS BASED RADIO BLASTING SYSTEM: The radio blasting system should be interfaced with the system. It will include following parameters:

Firing accuracy	: better than 20 μs
Decoder Operating	: at 12 Volt standard battery
Firing voltage	: 400 V
Sample rate	: 0.5 millisecond
Firing current	: > 200 A (0.5 Ohm load)
Charging Time	: < 1 second
CAP and Geophone test	
Operating temp.	: -30° to +60°C

5.3.1 The GPS based radio blasting systems should provide positional accuracy less than 1 meters and the operational range of minimum 15 Km.

5.3.2 The GPS based radio blasting system should have the facility for co-ordinate transformation from WGS-84 to local projection system (based on Survey of India map) and offer the facility for uploading location (positioning) information in industry standard format.

- 5.3.3 The necessary hardware and software interfaces are required to synchronize and control the shot sequence.
- 5.3.4 These should be complete with all the accessories and peripherals viz. battery, battery charger, mounting bracket, antenna, GPS device, firing line & Uphole line cable, Uphole Geophone, radio power cable, etc. ready to be used for deployment in the field. The encoder should operate on 12V DC power supply voltage and the decoders should operate on 12V DC portable batteries.
- 5.3.5 The Radio-controlled blasting systems should operate with industry standard safety features. It should have VHF radio communication link (both voice & data) between the 'recorder end' and 'shot end' electronics.
- 5.3.6 For safety and security at least ten (10) security codes should be provided on the **encoder & decoder**.
- 5.3.7 The integrated blasting system should have necessary voltage and current capacity to detonate industry standard detonating devices.
- 5.3.8 The 'Record end' system must take the command from (Central Controlling / Recording Unit) and return the 'Time Break' and 'Uphole' signals to be recorded by the seismic data acquisition system. Moreover, the encoder and decoders should display all the relevant information viz. Uphole, privacy setting, etc.
- 5.3.9 The radio blasting system should be interfaced with the system including encoders and decoders. The bidder must provide **Four (4) nos. of encoder and Twelve (12) nos. of decoder**.
- 5.3.10 The system & application software supplied shall be capable of providing real time source positions when used with GPS based shooting systems. However normal shooting option via SPS file/industry standard relation file with pre surveyed points shall also be available with supplied system.

6.0 LVL & Up-hole Recorder - Two (02) nos.

Should be a new generation compact portable 48-channel seismograph system for shallow refraction and reflection studies including weathering analysis of M/s Geometrics make or equivalent/Better with following specifications or higher:

- Weatherproof instrument with High Resolution sun visible screen, Light weight, low power and portable
- Compatible with energy source Dynamite/Detonator, Hammer/Plate
- Record Length Minimum 24000 samples
- Real time digital acquisition and display filters
- A/D Conversion 24-bit delta-sigma results
- Dynamic range ≥ 120 dB
- Filter & noise reduction Technology
- Pre-trigger Delay: allow viewing of data before trigger for monitoring 0 to 9999ms in 1ms increment.
- Pre-trigger memory allows viewing of data before trigger.
- Sample Interval selectable among 1/48, 1/32, 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8ms.
- Data Display wiggle trace, shaded or variable area, trace clipping, AGC, fixed gain & post-acquisition filtering.
- Data storage sufficient for several days recording including USB/External Hard disk.
- Interfaces: RS232 hi-speed serial port/Ethernet, video, keyboard, and printer
- Should run on 12 V external battery.
- Infield Processing:
 - Facility for First arrival (first breaks) automatically on the seismograph screen
 - On screen Travel Time Plots, Facility for generation of velocity cross-section on seismograph, Automatic calculation of depths below shots & geophones
 - Automated facility for preliminary layer assignment (through seismograph) and should be user editable.
 - Print tables of all data, depth calculation and quality control plots

6.1 A complete suite of PC/Laptop-based comprehensive refraction modelling & interpretation software with facility for modelling, ray tracing, automatic & manual first break picking, quality control and analysis & interpretation of the acquired data. The application Software pre-loaded on a branded Laptop (LENOVO, HP & DELL) of suitable hardware configuration for using the application software & carrying out various analysis should be offered. The application software should also be provided on CD/DVD media or downloadable with necessary license key/dongle etc. to operate the software. Two (02) sets of detailed hardcopy technical manuals should be provided in English language and additionally, two (2) set should be provided on CD/DVD/USB media.

6.1.1 **Laptop Configuration**

Laptop (2 Nos.): Should be quoted (only branded systems viz. HP, Lenovo, and DELL to be quoted) with the following specifications or higher:

Processor	Minimum 12 Generation Intel Core i7 Processor (4.7 GHz, 24 MB L3 cache, 14 cores) equivalent or higher.
OS	Windows 11 Pro 64 bit or Higher as per latest available at time of supply
Memory	32 GB DDR5-4800 MHz RAM (1 x 32 GB)
Storage	1 TB SSD SATA 3,
Graphics	NVIDIA® Quadro® T600 (4 GB GDDR6 dedicated)
Display	Minimum 15.6" diagonal FHD (1920x1080) or Higher
Keyboard	Standard keyboard with touchpad & backlight
Mouse	All surface Bluetooth Mouse
Connectivity	2 nos. USB 3.0 ports, 1 nos. HDMI Port, 1 nos. USB C type, 1 nos. eSATA/USB 3.0 combo port, 1 RJ 45 Ethernet, security lock slot
Audio	Stereo sound with internal speakers, Integrated Microphone
Battery	Minimum 8 cell Li-Ion Battery,
Adapter	External AC adapter with Power cord
Others	All Drivers on CD/DVD media, carrying case, users' manual in English Only. Power and all other interconnecting cables to be provided, Power extension spike guard with six nos. of 5- or 15-amps output or both as per the system requirement.

6.2 Following accessories should also be supplied along with the LVL & Uphole recorder:

- 4 nos. of HV electronic blaster for dynamite energy source.
- 6 nos. of cables with 24 takeouts each for connecting geophones, at 15 meters interval. Length of each cable should be 400 meters with suitable connectors to connect with LVL recorder.
- 100 nos. of single unit 4.5 Hz natural frequency geophones in land cases with 3" steel spike and suitable connectors for up-hole and refraction surveys.
- Two (02) sets of Hammer plate, Hammer, Waterproof carrying box & extra accessories
- Two (02) sets of Trigger input for direct USB 2.0 or higher version

7.0 COMMUNICATION

7.1 Walkie-talkie sets (multi-channel VHF sets, Motorola 340/GP-328/equivalent or higher): **100 nos.**

7.1.1 Output power: 5 watts

7.1.2 Frequency: to be specified with firm order by OIL.

7.1.3 Each walkie-talkie set should have antenna, two rechargeable battery packs and necessary chargers.

7.1.4 The bidder must obtain necessary permission towards import and use from concerned licensing authority in India corresponding to such offered & supplied items.

7.2 Two-way Professional Radios (20 nos.):

Suitable two-way professional radios should be attached to the blasters and recording equipment for to and fro communication. The power of the VHF Radios should be 25 watts and should be able to operate in the range of 136 to 174 MHZ. The radios should be complete with all the accessories and peripherals viz. microphone, antenna, chargers, cables & connectors etc.

7.3 Bidder shall obtain frequency license for supplied radio equipment. OIL will provide all necessary administrative support to bidder for obtaining frequency licenses from the licensing authority in India.

****End of Section IA****

SECTION - IB

TRUCK MOUNTED DATA HARVESTING & CHARGING CABIN WITH EQUIPMENT

8.0 Supply of Brand-New Truck Mounted Data Harvesting & Charging Cabin as per specifications, fitment and accessories etc. detailed hereunder:

8.1 The bidder shall take special care in selecting, designing, fabricating the Truck mounted Data Harvesting & Charging Cabin to be used for seismic survey operations considering the unit's application in typical oilfield roads. The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories, safety features etc. and shall be built completely in all respects without requiring any further fitment/modification in the Data Harvesting & Charging Cabin on delivery to Oil India Limited by the supplier (successful bidder).

8.2 Overall dimensions & weight of complete unit:

- | | | |
|-----|----------------------------------|--|
| (a) | Overall Length | : Within 10500 mm |
| (b) | Overall Width | : Within 2600 mm |
| (c) | Overall Height from ground level | : Within 4500 mm |
| (d) | Overall weight i.e. Total Mass | : The total weight (mass) of the complete unit must be within the permissible GVWR of the offered vehicle. |

8.3. DATA HARVESTING & CHARGING CABIN: One (1) no.

The whole system i.e., **Data Harvesting & Charging Unit** and peripherals should be installed in a suitable, sturdy, and field worthy air-conditioned cabin to be powered by external generating set [Section – IC, item 10.0 (i)] to operate all the equipment. The Data Harvesting & Charging Cabin shall house the Data Harvesting & Charging Unit and Battery Charger as detailed under Section-IB, Item 8.5 & 9.0.

The Data Harvesting & Charging Cabin shall be of Indian make and the mounting on the Truck chassis shall be done in India. The cabin should be fitted with all fittings, accessories, safety features etc. in all respects without requiring any further fitment/modification on delivery to Oil India Limited by the supplier (successful bidder). All fittings, accessories and materials used for fabrication and mounting of the Data Harvesting cabin shall be brand new, unused and of recent manufacture equipment/items and free from manufacturing defect. The Data Harvesting Cabin shall meet the following specifications.

a.	Dimensions	Length (Inside): <i>Approx. 6100 mm</i> Width (Inside): <i>Approx. 2500 mm</i> Internal Height: <i>Approx. 2700 mm</i>
b.	Longitudinal Runners (Chassis sub-frame)	All steel structure.
c.	Cross members (Chassis sub-frame)	All steel structure.
d.	Body Frame Structure	All welded galvanized steel/iron structure. Structure to be painted with high rich Zinc primer.
e.	Exterior Panelling	Galvanised steel/iron panel of adequate thickness.
f.	Colour- Exterior	All steel components used in the fabrication should be pre-treated and applied with metal primer. Final colour should be "White" desirably Polyurethane (PU) paint
g.	Interior (Sides, Roof) Panelling	Galvanised iron PVC coated panel of adequate thickness, desired colour White/Otis grey.
h.	Flooring	Minimum 5mm MS Chequered plate. The entire flooring should be covered completely with anti-skid aluminium chequered plate.
i.	Insulation (Roof & Body)	Thermocole, Fire Retardant (FR) grade and Water/Moisture Resistant.
j.	Table	<i>To be specified by bidder.</i>
k.	Lockers	<i>To be specified by bidder.</i>
l.	Door	<i>To be specified by bidder.</i> <i>(Rear & Side)</i>
m.	Lamp	Minimum 04 Nos. side wall mounted LED Lamps shall be provided inside cabin to be powered by external generating set.

		Minimum 02 No. roof mounted LED Lamp shall be provided inside cabin to be powered by external generating set.
n.	Deck Area	Full platform width deck area of not less than 1 m is to be provided at the rearmost i.e. in front of the Data Harvesting & Charging Cabin door at the rear. Rust proof metallic railings with handrail and vertical / horizontal baluster desirably of rust proof Aluminium / Steel are to be provided along the side of the deck area.
o.	Input Cables from Line	<i>To be specified by bidder.</i>
p.	Power socket panel	<i>To be specified by bidder.</i>
q.	Air conditioner	<p>Two number of 1TR Split Air Conditioners shall be provided for cabin and shall be capable of maintaining cabin temperature below 20°C. Ambient temperature is from 10°C to 45 °C with humidity up to 80%, non-condensing. The power supply shall be 230V.</p> <p>The AC indoor unit shall have provision of proper fastening to prevent it from falling during transportation from location to location. The Air Conditioners are to be mounted at convenient locations of Cabin. The indoor units of the Air Conditioners are to be mounted with metallic frame fixed with the body structure of the Cabin. The outdoor unit should be securely mounted to prevent any movement or vibrations during travel. Use of appropriate brackets or mounts to ensure stability. The outdoor unit should be shielded from direct exposure to rain, dust, and other environmental elements. A protective cover or housing shall be installed that allows for airflow while keeping the unit safe from the weather. A suitable water drain line shall be fitted, if required. The air conditioners are to be powered by the supplied generating set.</p> <p>Power for each AC shall be from 20 Amps metal clad wall sockets. Following points are to be considered for the AC units:</p> <ol style="list-style-type: none"> Compressor shall be of inverter type. Make: Voltas /LG / Blue Star / Carrier / Lloyd / Samsung / Haier/Hitachi/Daikin. BEE rating: 5 star rated (with current year validity). The machine shall be warranted for 1 year and compressor shall be guaranteed for 5 years. Duly signed warrantee / Guarantee certificate shall be submitted at the time of delivery. Control: Through remote <p>Safety of all the electronic equipment installed in the cabin should be ensured by taking adequate precautions in the cabin design, AC fitting etc. so as to prevent moisture, water, etc. from entering into the cabin either from AC trays or from rains.</p>
r.	Power Socket provision	<p>The following are the minimum Power Socket provision:</p> <p>220VAC: 04 Nos. (To be powered by external generating set)</p> <p>Additional switch board with socket: 04 Nos Additions power extensions boards from UPS to computers/ printers/NAS etc: 05 Nos</p>
s.	Positioning of Battery Charger Unit	<p><i>To be specified by bidder.</i></p> <p>Minimum 02 (two) nos. Fire extinguisher mounting inside Data Harvesting & Charging cabin at convenient locations to be fitted.</p>

		<p>Complete electric wirings, fittings, accessories etc. to power the Data Harvesting & Charging cabin electrical items from external Generating set to be fitted.</p> <p>Complete electric wirings, fittings, accessories etc. to power the lamps inside Data Harvesting & Charging cabin and Flood light from external Generating set to be fitted.</p> <p>Foldable ladder with antiskid surface at Rear & Side to be fitted.</p> <p>Suitable damper/shock absorbers, if required to arrest vibration of Data Harvesting & Charging cabin as per design to be fitted.</p> <p>All steel components used in the fabrication should be pre-treated and applied desirably with zinc rich primer.</p> <p>Side, Top, Repeater marker lights shall be powered by vehicle battery.</p> <p>Retro reflective tape to be fitted on the front, rear and both side of the vehicle per the colour code - Front: White, Rear: Red and Sides: Yellow in the unit(s).</p> <p>Minimum one number Flood Light near the <i>Rear Door & Side Door</i> of Data Harvesting & Charging cabin to be powered by external generating set to be fitted.</p> <p>The inscription "OIL INDIA LIMITED, A GOVERNMENT OF INDIA ENTERPRISE, DULIAJAN, ASSAM-786602" with "OIL LOGO" & "PURCHASE ORDER NUMBER" shall be painted prominently on the body of Data Harvesting & Charging cabin. (Logo/specification shall be provided by Oil India Limited after placement of order)</p> <p>The Data Harvesting & Charging cabin, its fittings/accessories and deck area must be within the original chassis of the vehicle supplied by the vehicle manufacturer. Extension of the original chassis by welding/bolting or by any other means to accommodate the Data Harvesting & Charging cabin, its fittings/accessories and deck area is not acceptable.</p> <p>Door, window and latches etc. shall not allow to ingress of rainwater/dust inside the Data Harvesting & Charging cabin when in the closed position. Data Harvesting & Charging cabin is to be shower tested and necessary test report is to be submitted.</p>
t.	Credential of body builder	<p>The entire design, fabrication and mounting etc. shall be done by any of reputed body builder approved by Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc.</p> <p>Details of body builder with valid certification from Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc. is to be submitted along with technical bid by the bidder.</p>
u.	Drawing	<p>Detailed dimensional drawing (Plan, Elevation, Side views) of the complete unit (Truck Mounted Data Harvesting & Charging Cabin) along with detailed mounting & material construction of the Data Harvesting & Charging cabin structure, exterior panelling, interior panelling, flooring etc. from the body builder should be submitted along with the technical bid by the bidder(s).</p> <p>Also, the prospective supplier (successful bidder) shall have to submit final detailed dimensional drawings along with detailed mounting and material construction of Data Harvesting & Charging cabin from the body builder within 30(thirty) days from the date of OIL's purchase order before manufacturing & fabrication of the Data Harvesting & Charging cabin. The same should be prepared based on order specification & OIL's requirement.</p>

8.4 TRUCK FOR 01 (ONE) NO. DATA HARVESTING & CHARGING CABIN

The truck should accommodate the Data Harvesting & Charging Cabin (Section – IB, item 8.3). The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories; safety features etc. and shall be built completely in all respects without requiring any further fitment/modification on delivery to Oil India Limited by the supplier (successful bidder).

8.4.1 Mounting of the Data Harvesting & Charging cabin on the truck chassis is responsibility of the supplier (successful bidder).

8.4.2 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.

8.4.3 The truck shall have the following specifications:

1	Month & Year of manufacture; Make	Brand new Truck chassis model with Driver Cabin & load body of any vehicle manufacturer of India, procured after the date of issuance of Purchase Order (PO) /Letter of Intent (LOI)/ Letter of Award (LOA) and meeting the specifications as mentioned in the Tender / Purchase Order. The bidder shall mention the make & model of the offered Truck chassis in technical bid including all other requisite specifications.
2	GVW	Not less than 18500 kg.
3	Wheelbase	In the range of 4200 mm to 6800 mm. The wheelbase is the horizontal distance between the centres of the front axle and rear axle wheels.
4.	Overall Dimensions	As mentioned in Section – IB, Clause No. 8.2 above.
5.	Engine	Water cooled Diesel fuel engine of adequate power and torque. Air cooled engine is not acceptable.
6	Emission Norms	Bharat Stage – VI (BS VI) OBD Stage II. Shall also comply Real Drive Emissions (RDE) using Portable Emissions Measurement System (PEMS) requirements. The bidder shall mention the emission norms of the offered vehicle in the technical bid.
7	Steering	Power assisted and Right-Hand Steering (i.e., Steering wheel shall be on the right-hand side inside the Driver's cabin when viewed from the rear of the vehicle). Unit with left hand steering is not acceptable.
8	Gearbox	Minimum 5 forward speed & 1 reverse speed.
9	Brake	Air or Hydraulic power assisted foot operated Brake with Antilock Braking System and suitable hand operated Parking Brake.
10	Drive	4 x 2 Drive, Rear Axle Drive.
11	Axles	Front – 1 No., Rear – 1 No. (Drive axle).
12	Suspension (Front and Rear)	As per the Truck manufacturer.
13	Wheels & Tyres	Front- Total 02 Nos. Rear – Total 04 Nos. [The Truck shall have total 04 (four) numbers of wheels in both side of the rear axle. Truck with total 02 (two) numbers of wheels in both side of the rear axle shall not be acceptable]. Spare – Spare wheel to be supplied. Suitable mounting arrangement facility for spare wheel shall be provided.

14	Fuel Tank & Diesel Exhaust Fluid (DEF) Tank	As per vehicle manufacturer.
15	Speed Limiting Device (SLD)	To be provided with valid certification as per Indian Motor Vehicle Rules as applicable in the state of Assam (India).
16	Vehicle Tracking System (VTS)/GPS:	To be provided with valid certification as per Indian Motor Vehicle Act/Rules as applicable in the state of Assam (India).
17	Fitments & accessories:	<p>Following fitments & accessories shall be fitted in each vehicle:</p> <ol style="list-style-type: none"> a. All standard fittings, accessories, standard gauges, and meters as per Indian Motor Vehicle Act/Rules shall be fitted. The Speedometer & the Odometer shall be with Metric KM calibration system only. b. Rear view mirrors at both sides of the driver's cabin, horn, driver cabin lamps, head lamps, parking lamps, tail lamps, direction indicator lamps, stop lamps, fog lamps, windscreen wipers, first aid box, floor mats, footsteps, grab rail, mud flaps/guards, fire extinguisher etc. shall be fitted in the vehicle. c. 01 (one) number spare wheel assembly shall be supplied in the vehicle. d. Suitable towing provision/attachment at Front and Rear of vehicle. e. 01 set of Jack with Handle and Wheel Wrench with Lever shall be supplied along with the 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 the vehicle. f. Suitable electrical Master Switch to disengage all electrical circuits from battery, Well-covered Battery Box shall be fitted in each unit. g. Wherever feasible, Bumpers, side under run protection device (SUPD)s, rear under run protection device (RUPD), front under run protection device (FUPD) are to be fitted. h. To fix retro reflective on the front, rear and both side of the complete unit as per the colour code- Front: White, Rear: Red and Sides: Yellow. i. Audible alarm to sound while the vehicle is put in reverse gear. j. Suitable Spark Arrestor in the engine exhaust. The Spark Arrestor may be additional attachment to be fitted with the exhaust or chassis inbuilt mechanism.
18	Driver's cabin	<p>Originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle, complete with all standard fittings and accessories without requiring any subsequent fabrication job in it.</p> <p>Seating capacity minimum 02 (two) Nos. including Driver and containing Driver's seat, Co-passenger's seat, steering wheel, all controls, instruments, and other devices necessary for driving or operating the vehicle.</p> <p>Driver's cabin shall have 01 (one) bench type seat behind and parallel to the driver & co-driver seat originally built by the</p>

		vehicle manufacturer. Driver's cabin with Single Cabin / Day Cabin shall not be allowed.
19	Load body and platform	<p>Steel platform, originally built & supplied along with the vehicle by the vehicle chassis manufacturer of the offered vehicle.</p> <p>High side deck or Hood in the load body is not acceptable.</p> <p>Note: While selecting the vehicle, bidder to note that the load body accommodates the Data Harvesting & Charging cabin offered by the bidder as specified elsewhere in the tender.</p>
20	Notes	<p>(a) In case any of spares, fittings/accessories etc. as mentioned in the tender does not come along with the vehicle as standard spares, fittings/accessories from the vehicle manufacturer, the supplier shall procure the same and fit the same prior to delivery of the vehicle without any extra cost to Oil India Limited.</p> <p>(b) Suitable Gap as per standard between the Truck driver's cabin and the rear equipment/machineries shall be provided.</p>
21	Drawing	<p>In addition to submission of technical brochure/leaflet of the offered Truck, the bidder shall also submit the following along with the technical bid:</p> <p>(i) Mounting details of the Data Harvesting & Charging cabin from the reputed workshop/fabricator etc.</p> <p>(ii) Dimensions (length, width & height) & weight of the Data Harvesting & Charging cabin. Also, the prospective supplier shall have to submit final detailed dimensional drawings along with detailed mounting and material construction from the fabricator within 30 (thirty) days from the date of OIL's purchase order before mounting the generating set etc. on factory built (i.e., originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle) load body. The same should be prepared based on order specification & OIL's requirement.</p>
22	Documents/literatures to be submitted along with the supply:	<p>The following documents/literatures shall be submitted for each vehicle along with the supply by the supplier and cost in this regard, if any, shall be borne by the supplier:</p> <p>Invoice(s) in original.</p> <p>Notwithstanding any clause mentioned elsewhere in the NIT/tender, the invoice(s) for the complete unit shall be submitted in 03 (three) parts as under for registration purpose:</p> <p>a) Invoice for the Truck chassis with Driver's cabin.</p> <p>b) Invoice for the Data Harvesting & Charging cabin: It shall include the cost of fabrication, mounting, etc. of the Data Harvesting & Charging cabin.</p> <p>c) Invoice for entire onboard equipment / machineries and any other items/accessories etc. permanently mounted on the Truck & its cost of mounting on Truck.</p> <p>Note: Vehicle Chassis Number & Engine Number shall be mentioned in invoice(s) against above Sl. No. (a), (b) & (c).</p> <p>Sale Certificate, Emission Certificate, Initial Road Worthiness Certificate in Form 21, 22 & 22(A) Part-I & Part-II, Temporary Registration Certificate as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India; valid certification against VTS/GPS etc. in original in the name of Oil India Limited,</p>

		<p>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).</p> <p>Any supporting document(s) required from Oil India Limited (OIL) for issuance of aforementioned documents shall be provided by OIL. The place, code of the permanent registration shall be intimated in the nearer time in the event of the order.</p> <p>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.</p> <p>Any manuals/documents etc. supplied by the vehicle manufacturer.</p> <p>Note: <i>The Truck shall be procured by the supplier (i.e. successful bidder) 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 (i.e. successful bidder) shall obtain the Invoice etc. from the vehicle dealer/manufacturer accordingly.</i></p>
23	Delivery	<p>(a) The fully built complete unit (Truck mounted Data Harvesting & Charging Cabin with Equipment) along with all documents etc. are to be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) without any defect by the supplier at their risk and cost as per the delivery period mentioned elsewhere in the tender document.</p> <p>OIL reserves the right to inspect, test and if necessary, reject any part/parts after arrival of the vehicles at Duliajan, Assam-786602 (India), if the said rejection is attributed to be the responsibility of the supplier. It shall, in no way be limited or waived by the reason that the units have been inspected, tested, and passed by OIL prior to dispatch.</p> <p>(b) Temporary Registration Certificate shall be arranged & supplied by the supplier (i.e. successful bidder) 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 complete unit.</p> <p>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.</p> <p>(c) The supplier (i.e. successful bidder) shall ensure that the vehicle shall be mobilized for delivery with all valid documents like Temporary Registration, Insurance as applicable, Driver's License (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.</p>

24	VAHAN portal database, Permanent Registration & High Security Registration Plate (HSRP) Kit:	The bidder/ supplier (i.e. successful bidder) 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 with 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). Cost of permanent registration shall be borne by Oil India Limited. On receipt of the government registration number, Oil India Limited shall inform the government registration number to the bidder/ supplier (i.e. successful bidder). The supplier (i.e. successful bidder) 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 (i.e. successful bidder).
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8.5 **Data Harvesting & Charging Unit:** The proposed cableless seismic data acquisition equipment should have the adequate no. of Rack mounted Data Harvesting device commensurate with our requirement of data harvesting and charging of at least 600 channels simultaneously. The system has to be offered with Field Data Management system comprising of LED monitor [size 24-inch flat screen (viewable or bigger)] capable of data archiving along with necessary hardware provided which should include following minimum parameters:

- (i) Internal storage capacity of 5TB or greater with minimum RAID 5 configuration or better.
- (ii) External Storage devices (NAS storage or equivalent) with minimum RAID 1 configuration or better and storage capacity of minimum 5TB or more - 01 no.
- (iii) Solid-State Drive (SSDs) for internal data storage.
- (iv) eSATA interface for writing data to delivery media.
- (v) Compatible with IBM3592 E7/LTO-IX or higher having both read & write capacity – 4 nos.
- (vi) Inventory Management of Ground Electronics and data as well as geophysical QC functions.
- (vii) The necessary interface, hardware, software, drivers, licenses, or dongle as may be required to copy the data recorded (SEG-Y and / or SEG-D De-multiplexed) on internal & external storage devices of data harvesting equipment, to IBM3592 E7/LTO-IX media provided along with the data harvesting unit.
- (viii) The necessary interface, software, drivers, licenses, or dongle as may be required for harvesting of acquired seismic and navigational data/sorting of data/merging navigational data with raw seismic file and display the shot gathers/writing should be provided.

9.0 **BATTERY CHARGER SPECIFICATION:**

The following criterion has to be followed for the battery chargers.

- Input Power - (220/230 VAC, 50 Hz) or suitable for power requirement of battery chargers & data harvesting devices.
- Charging status display to be provided along with the battery charger.

Note: (i) *Irrespective of the specification/detail requirement given herewith vendor should ensure that the data harvesting system is fully operational for data harvesting for at least 600 channels at a time. If any additions items required for this bidder should quote/provide the same.*

(ii) *The power requirement input for this cabin shall be provided by skid mounted genset in order to ensure smooth functioning of both the data harvesting device and the battery chargers as mentioned in Section – IC Clause no. 10 (i).*

****End of Section IB****

SECTION - IC

GENERATOR SETS

- 10.0 Generator (4 nos.) - Total 04 (four) nos. of Suitable 4 stroke single Phase AC silent power generators (diesel) 220/230 VAC, 50HZ + 1HZ based power system to operate all the equipment & peripherals, Air Conditioners, and all the other cabin accessories, as applicable. The generators should preferably be of Indian origin. The generator set should be environmentally compliant.
- i. **First Generating Set** - One (01) no. genset (30KVA-specification given in **Annexure – (IC) 2** should be skid mounted to cater to the power requirement of entire data harvesting unit and battery charging device.
 - ii. **Second Generating Set** - One (01) no. Standby genset (30KVA-specification given in **Annexure – (IC) 2** should be skid mounted to cater to the power requirement of entire data harvesting unit and battery charging devices.
 - iii. **Third Generating Set** – One (01) no. genset (7.5 KVA-specification given in **Annexure – (IC) 1** mounted on Truck containing Recorder Cabin to cater to the power requirement of Recording equipment inside the Recording Cabin as detailed in (**Section – IE, item 13.1**).
 - iv. **Fourth Generating Set** - One (01) no. genset (7.5 KVA-specification given in **Annexure – (IC) 1** mounted on Utility Vehicle detailed in [**Section – IC, item 10.1**], for Standby purpose to cater to the power requirement of Recording equipment inside the Recording Cabin as detailed in (**Section – IE, item 13.1**).

10.1 Utility vehicle for One (1) nos. (for Genset)

10.1.1 The utility vehicle should accommodate the Fourth Generating set [Section – IC, item 10.0 (iv)]. The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories; safety features etc. and shall be built completely in all respects without requiring any further fitment/ modification on delivery to Oil India Limited by the supplier.

10.1.2 Mounting of the Genset the utility chassis is responsibility of the supplier:

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.

10.1.3 The Utility vehicle shall have the following specifications:

1	Month & Year of manufacture; Make	Brand new Utility Vehicle (such as Tata Yodha/Bolero Maxx Pickup/Bolero Camper or equivalent) with load body of any vehicle manufacturer of India, procured after the date of issuance of Purchase Order (PO) /Letter of Intent (LOI)/ Letter of Award (LOA) and meeting the specifications as mentioned in the Tender. The bidder shall mention the make & model of the offered Utility Vehicle in technical bid including all other requisite specifications.
2	GVW	Not more than 4500 kg.
3	Wheelbase	In the range of 3000 mm to 4000 mm.
4	Engine	Water cooled Diesel fuel engine of adequate power and torque. Air cooled engine is not acceptable.

5	Emission Norms	Bharat Stage – VI (BS VI) OBD Stage II. Shall also comply Real Drive Emissions (RDE) using Portable Emissions Measurement System (PEMS) requirements. The bidder shall mention the emission norms of the offered vehicle in the technical bid.
6	Steering	Power assisted and Right-Hand Steering (i.e., Steering wheel shall be on the right-hand side inside the Driver's cabin when viewed from the rear of the vehicle). Unit with left hand steering is not acceptable.
7	Gearbox	Minimum 5 forward speed & 1 reverse speed.
8	Brake	Air or Hydraulic power assisted foot operated Brake with Antilock Braking System and suitable hand operated Parking Brake.
9	Drive	4 x 2 Drive, Rear Axle Drive.
10	Axles	Power assisted and Right-Hand Steering (i.e., Steering wheel shall be on the right-hand side inside the Driver's cabin when viewed from the rear of the vehicle). Unit with left hand steering is not acceptable.
11	Suspension (Front and Rear)	As per the Utility Vehicle manufacturer.
12	Wheels & Tyres	Front- Total 02 Nos. Rear – Total 02 Nos. Spare – Spare – To be supplied. Along with suitable mounting arrangement facility for spare wheel shall be provided.
13	Fuel Tank & Diesel Exhaust Fluid (DEF) Tank	As per Utility vehicle manufacturer.
14	Speed Limiting Device (SLD)	To be provided with valid certification as per Indian Motor Vehicle Rules as applicable in the state of Assam (India).
15	Vehicle Location Tracking Device/GPS and Emergency Button	To be provided with valid certification as per Indian Motor Vehicle Act/Rules as applicable in the state of Assam (India).
16	Fitments & accessories:	Following fitments & accessories shall be fitted in the Utility vehicle: a. All standard fittings, accessories, standard gauges, and meters as per Indian Motor Vehicle Act/Rules shall be fitted. The Speedometer & the Odometer shall be with Metric KM calibration system only. b. Rear view mirrors at both sides of the driver's cabin, horn, driver cabin lamps, head lamps, parking lamps, tail lamps, direction indicator lamps, stop lamps, fog lamps, windscreen wipers, first aid box, floor mats, footsteps, grab rail, mud flaps/guards, fire extinguisher etc. shall be fitted in the vehicle. c. 01 (one) number spare wheel assembly shall be supplied in the vehicle. d. Suitable towing provision/attachment at Front and Rear of vehicle. e. 01 set of Jack with Handle and Wheel Wrench with Lever shall be supplied along with the 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 the vehicle. f. Suitable electrical Master Switch to disengage all electrical circuits from battery, Well-covered Battery Box shall be fitted in each unit.

		<p>g. Wherever feasible, Bumpers, side under run protection device (SUPD)s, rear under run protection device (RUPD), front under run protection device (FUPD) are to be fitted.</p> <p>h. To fix retro reflective on the front, rear and both side of the complete unit as per the colour code- Front: White, Rear: Red and Sides: Yellow.</p> <p>i. Audible alarm to sound while the vehicle is put in reverse gear.</p> <p>j. Suitable Spark Arrestor in the engine exhaust. The Spark Arrestor may be additional attachment to be fitted with the exhaust or chassis inbuilt mechanism.</p>
17	Driver's cabin	<p>Originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle, complete with all standard fittings and accessories without requiring any subsequent fabrication job in it.</p> <p>Seating capacity minimum 02 (two) Nos. including Driver and containing Driver's seat, Co-passenger's seat, steering wheel, all controls, instruments, and other devices necessary for driving or operating the vehicle.</p>
18	Load body and platform	<p>Steel platform, originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle.</p> <p>Note: While selecting the vehicle, bidder to note that the load body accommodates the Generating Set under [Section – IC, item 10.0 (iv)], offered by the bidder as specified in the tender.</p>
19	Credential of body builder responsible for mounting of Genset.	<p>The entire design, fabrication and mounting etc. shall be done by any of reputed body builder approved by Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc.</p> <p>Details of body builder with valid certification from Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc. is to be submitted along with technical bid by the bidder.</p>
20	Drawing	<p>In addition to submission of technical brochure/leaflet of the offered Utility Vehicle with load body, the bidder shall also submit the following along with the technical bid:</p> <p>(i) Mounting details of the generating set from the reputed workshop/fabricator etc.</p> <p>(ii) Dimensions (length, width & height) & weight of the generating set.</p> <p>Also, the prospective supplier shall have to submit final detailed dimensional drawings along with detailed mounting and material construction from the fabricator within 30 (thirty) days from the date of OIL's purchase order before mounting the generating set etc. on factory built (i.e., originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle) load body. The same should be prepared based on order specification & OIL's requirement.</p>
21	Notes	<p>(a) In case any of spares, fittings/accessories etc. as mentioned in the tender does not come along with the vehicle as standard spares, fittings/accessories from the vehicle manufacturer,</p>

		<p>the supplier shall procure the same and fit the same prior to delivery of the vehicle without any extra cost to Oil India Limited.</p> <p>(b) Suitable Gap as per standard between the Utility Vehicle driver's cabin and the rear equipment / machineries shall be provided.</p> <p>(c) Extension of the original chassis/load body by welding/ bolting or by any other means to accommodate the Generating Set on the Truck is not acceptable.</p>
22	Documents/literatures to be submitted along with the supply:	<p>The following documents/literatures shall be submitted for each vehicle along with the supply by the supplier and cost in this regard, if any, shall be borne by the supplier:</p> <p>Invoice(s) in original.</p> <p>Notwithstanding any clause mentioned elsewhere in the NIT/tender, the invoice(s) for the complete unit shall be submitted in 02 (two) parts as under for registration purpose:</p> <p>a) Invoice for the Utility Truck chassis with Driver's cabin.</p> <p>b) Invoice for the Generating Set and its mounting: It shall include the cost of fabrication, mounting, etc. of the Data Harvesting & Charging cabin</p> <p>Note: <i>Vehicle Chassis Number & Engine Number shall be mentioned in invoice(s) against above Sl. No. (a) & (b).</i></p> <p>Sale Certificate, Emission Certificate, Initial Road Worthiness Certificate in Form 21, 22 & 22(A) Part-I & Part-II, Temporary Registration Certificate as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India; 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).</p> <p>Any supporting document(s) required from Oil India Limited (OIL) for issuance of aforementioned documents shall be provided by OIL. The place, code of the permanent registration shall be intimated in the nearer time in the event of the order.</p> <p>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.</p> <p>Any manuals/documents etc. supplied by the vehicle manufacturer.</p> <p>Note: <i>The Truck shall be procured by the supplier (i.e. successful bidder) 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 (i.e. successful bidder) shall obtain the Invoice etc. from the vehicle dealer/manufacturer accordingly.</i></p>
23	Delivery	<p>(a) The fully built complete unit (Utility Vehicle mounted Generating Set) along with all documents etc. are to be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) without any defect by the supplier at their risk and cost as per the delivery period mentioned elsewhere in</p>

		<p>the tender document.</p> <p>OIL reserves the right to inspect, test and if necessary, reject any part/parts after arrival of the vehicles at Duliajan, Assam-786602 (India), if the said rejection is attributed to be the responsibility of the supplier. It shall, in no way be limited or waived by the reason that the units have been inspected, tested, and passed by OIL prior to dispatch.</p> <p>(b) Temporary Registration Certificate shall be arranged & supplied by the supplier (i.e. successful bidder) 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 complete unit.</p> <p>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.</p> <p>(c) The supplier (i.e. successful bidder) shall ensure that the vehicle shall be mobilized for delivery with all valid documents like Temporary Registration, Insurance as applicable, Driver's License (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.</p>
24	VAHAN portal database, Permanent Registration & High Security Registration Plate (HSRP) Kit:	<p>The bidder/ supplier (i.e. successful bidder) 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). Cost of permanent registration shall be borne by Oil India Limited. On receipt of the government registration number, Oil India Limited shall inform the government registration number to the bidder/ supplier (i.e. successful bidder). The supplier (i.e. successful bidder) 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 (i.e. successful bidder).</p>

ANNEXURE - (IC) 1

TECHNICAL SPECIFICATIONS FOR 7.5kVA SILENT DIESEL ENGINE DRIVEN GENERATING SET

Clause	Description	Specifications
I	General	Diesel Generating set of capacity 7.5 kVA, single phase, 230 volts, 50 Hz, 0.8 Power Factor, complete with Diesel Engine (@1500 rpm), Alternator, Electric Control Panel and Acoustic Enclosure conforming to the specifications given below. Diesel engine and alternator shall be closely coupled (as per manufacturer's standard) and mounted on a base plate of robust in construction.
II	Statutory Norms	<p>1) Engine:</p> <p>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)- section 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government (Govt. of India) and subsequent notifications as applicable.</p> <p>The offered Engine of the DG set should have valid Conformity of Production Verification for Emission Compliance from Certification Agencies as per latest CPCBIV+ notification. A copy of the same has to be furnished along with the offer.</p> <p>2) Acoustic Enclosure (Canopy) :</p> <p>(i) 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 CPCBIV+ 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]</p> <p>(ii) The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCBIV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer.</p> <p>(iii) The bidder must confirm the following in their bid, failing which their bid shall be rejected:</p> <p>(a) In the event of any new CPCBIV+ norms/regulations governing Diesel Engine driven Generating set are made effective prior to delivery of the Set (but after bid closing date) the supplied DG set shall comply with the latest CPCBIV+ norms/regulations.</p> <p>(b) The compliance report from Govt. approved agencies, if any, must be submitted prior to dispatch of the Generating set for OIL's scrutiny and acceptance.</p>
III	Prime mover (Diesel Engine)	<p>1) General Site Conditions:</p> <p>(i) Maximum Temperature: 45°C, Minimum Temperature: 5°C (ii) Maximum Relative Humidity at 21°C: 100 %, at 35 °C: 95 %, at 41 °C: 70% (iii) Maximum Altitude above mean Sea Level: 150M</p> <p>2) Governing Standards:</p> <p>(i) Engine: IS: 10001/BS: 5514or applicable standard. (ii) Governing: Class A-1 specifications of IS: 10000 / BS: 5514. OR Governing class (As per ISO 8528 Part-V).</p> <p>3) Make of engine: To be specified by bidder.</p>

Clause	Description	Specifications
		4) Model of engine: <i>To be specified by bidder.</i>
		5) Duty: <i>To be specified by bidder.</i>
		6) RPM: 1500
		7) Fuel: HSD: IS 1460 (latest edition)
		8) Start: Electric Start
		9) Cycle: Four Stroke
		10) Cylinder: Multi cylinder (Bidder to specify number of cylinders of the offered engine)
		11) Engine Arrangement: Vertical, Inline/V Engine
		12) Compression Ratio: <i>To be specified by bidder.</i>
		13) Size (bore & stroke): <i>To be specified by bidder.</i>
		14) Displacement: <i>To be specified by bidder.</i>
		15) Aspiration: Naturally Aspirated or Turbocharged.
		16) Engine Cooling System: Water or Air
		17) Gross HP at 1500 RPM: <i>To be specified by bidder.</i>
		18) HP Deductions: (Please specify the considered deductions)
		19) Net Minimum Available Horsepower: Engine should be able to develop power required for driving a generating set of 7.5 kVA rated for Prime Duty at 1500 rpm (Output available with varying load for an unlimited time) with an overload capacity of 10% for a period not exceeding One Hour in any 12 hours running when running at 1500 or 1500 R.P.M. The Supplier should mention the NET available power for Gen set for Prime duty application.
		20) Power for Prime Duty: 7.5 kVA (Output available with varying load for an unlimited time). The engine shall be capable of delivering the rated output without undue heating of the engine or any other mechanical trouble, as per site conditions given at (1) above.
		21) Specific Fuel Consumption at: 100% Load 75% Load 50% Load
		22) Lube Oil Consumption (LT/HR):
		23) Air Intake System: Type of Air cleaner of the offered engine to be furnished.
		24) Starting System: The Starting System should have an electric starting system comprising of Maintenance Free Lead – Acid Batteries with 90/150/180 AH Capacity of Reputed Make, Engine mounted Battery charging Alternator (preferably of Make: LUCAS TVS), 12 Volt Starter (preferably of Make: LUCAS TVS/ DELCO REMY).
		25) Engine Exhaust System: The Exhaust System should comprise of: Exhaust Manifold, Stainless steel Exhaust Flexible connection, Exhaust Silencer, Spark Arrestor and associated Piping connections with proper clamping arrangement with all exposed parts properly insulated.
		26) Fuel System: The Fuel System should comprise of an inline fuel pump with mechanical Governor, Fuel Injectors, replaceable Fuel Filters and fuel level indicator. Fuel Tank should be integrated inside the acoustic enclosure with drain valve, and inlet & outlet connection. The fuel tank should have maximum capacity of 990L or 8 hours of continuous running at full load of DG set, whichever is lower.
		27) 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.
		28) Gauges and Instruments:
		The Engine instrument Panel should include the following:
		i) Lubricating oil pressure gauge
		ii) Water temperature gauge
		iii) Lube oil temperature gauge
		iv) Starting Switch
		v) Digital/Mechanical Tachometer and Hour Meter
		vi) Ammeter / Battery Charging Indicator

Clause	Description	Specifications
		<p>vii) Engine Low Lube Oil Pressure indication display red lamp</p> <p>viii) Engine Over Temperature / Cooling System Failure indication display red lamp</p> <p>ix) Emergency Stop Switch (Mounted on exterior of the Acoustic Canopy)</p> <p>NB: <i>All the Gauges and Instruments should be easily visible from outside of the Acoustic Enclosure/ Canopy.</i></p> <p>29) Engine Safety Controls: The following Safety shut off/trip system should be incorporated to Shut Down the Engine in the event of:</p> <p>i) Low Lubricating oil pressure.</p> <p>ii) Engine over speed.</p> <p>iii) Engine over Temperature / Cooling System Failure.</p> <p>NB: <i>The Safety shut off/trip system should indicated the type of trip in case of activation and also should have an audible alarm/ hooter to indicate Tripping of the Engine.</i></p> <p>30) Other Features should be as under:</p> <p>i) Flywheel</p> <p>ii) Flexible Coupling</p> <p>iii) Lifting eyes</p> <p>iv) Standard Guards over Belt Drives (Blower Fan Drive, charging, Alternator drives pulley and flexible coupling)</p> <p>v) Standard Painting</p> <p>vi) SAE standard rotation</p> <p>31) The engine of the offered DG Set should have the following:</p> <p>(i) A proven track record for DG Set applications in Central/State PSUs or Central/State Govt. Organizations of India or any other Public Limited Company. Relevant documentary evidence in this regard to be furnished.</p> <p>(ii) It should also have logged minimum successful 6000 hours of running or should have completed one year of successful running from its date of commissioning in the last 5 years prior to the bid closing date of this tender. Satisfactory performance certificate from end user in this regard to be furnished.</p>
IV	Acoustic enclosure	<p>The generating set comprising of engine coupled with alternator, control panel etc. for each set should be placed inside an acoustic enclosure having the following salient features:</p> <p>1) 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 with must be 75 dB(A) at 1 meter away from the enclosure surface and must conform to the latest CPCBIV+ norms [G.S.R. 771(E)]. – The emission limit of the Diesel engine of the generating set must comply with the latest CPCBIV+ norms 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.</p> <p>2) The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCBIV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer.</p> <p>[Certification agencies/Authorized agencies of certification are -</p> <ol style="list-style-type: none"> 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]. <p>3) The acoustic enclosure should be modular type. This should facilitate easy assembling/dismantling</p> <p>4) The temperature of exhaust line should not exceed the self-ignition temperature of fuel. A high temperature trip system (to shut down the</p>

Clause	Description	Specifications
		<p>engine by cutting off fuel supply to the engine through the solenoid valve) with variable setting connected to a thermostatically controlled blower must be provided for eliminating excessive heat dissipated by the engine within the acoustic enclosure.</p> <p>5) The enclosure should have the sufficient space in and around the generating set to facilitate maintenance and operation of the set.</p> <p>6) Acoustic Enclosure's base frame should incorporate necessary facilities for handling and inter location transfer through oil field trucks.</p> <p>7) The canopy should be finished in synthetic enamel paint incorporating rust inhibitors and aluminium sprayed silencers and spark arrestors to guarantee a superior and long-lasting finish.</p> <p>8) Exhaust silencer shall have to be provided of the size as recommended by the manufacturer and shall attenuate the sound to the level noted above. It shall be supplied with a flexible, seamless, stainless steel exhaust connection as well as with all internal pipe work and suitably designed Spark Arrestor.</p>
		<p>9) The acoustic enclosure with skid should also incorporate:</p> <p>10) Locking arrangement (Provision for fitting external lock and key)</p> <p>a) Lifting arrangement for entire skid/gen set with enclosure.</p> <p>b) Draining arrangement for fuel and lube oil.</p> <p>c) Air breather.</p> <p>d) Hood for rain protection</p> <p>e) Emergency stop button</p> <p>f) Panel meter viewing window</p>
V	Skid / base frame (for the DG set)	The engine and alternator are to be close coupled and both be mounted on a suitably designed skid as a base frame fitted with requisite number of suitably designed Anti Vibration Mountings (AVM) for making the DG set vibration free.
VI	Spare parts	<p>1) Bidder should have to confirm the availability of all the spares for the complete Gen Sets for minimum 10 years from the date of delivery of materials.</p> <p>2) Spares for two years normal operation in addition to the normal commissioning spares and consumables of the generating set should be provided in the bid, however the price of these spares (<i>Spares for two years normal operation</i>) shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the package. Item wise breakdown price of these spares should also be provided as under -</p> <p><u>NOTE FOR SUBMISSION OF SPARE PRICE LIST:</u> <i>The price of Spares for two years normal operation shall be provided separately as pdf. document under "Financial Documents" while submitting the Price Bids in GeM Portal. The price of these spares shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the package. Also please note that NO PRICE should be mentioned in the TECHNICAL BID.</i></p> <p>3) The following items shall have to be offered as MANDATORY SPARES and to be supplied along with the complete package (<i>The cost of the same to be included in the equipment cost</i>):</p> <p>(a) Engine Spares:</p> <p>i. Fuel filter - 06 nos. (per genset)</p> <p>ii. Lube oil filter - 06 nos. (per genset)</p> <p>iii. Air filter- 06 nos. (per genset)</p> <p>iv. Complete Set of Belts – 04 Sets (per genset)</p> <p>v. Lube Oil for initial filling (per genset)</p>
VII	Documents to be attached with the final shipment (for the DG set)	<p>The following documents [at least 03 bound sets (if not specified otherwise hereunder)] are to be separately packed and forwarded to HoD- GEOPHYSICS DEPT, OIL INDIA LIMITED, DULIAJAN- 786602, ASSAM, clearly indicating the OIL's Purchase order no and the description.</p> <p>1. COMPOSITE OPERATING INSTRUCTIONS- with description and illustration of all switchgear controls and indicators and engine and generator controls. <i>Draft copy of the same to be submitted to OIL's inspection team during the time of pre-dispatch inspection for approval.</i></p>

Clause	Description	Specifications
		2. PARTS BOOKS - that illustrate and list all assemblies, subassemblies and components.
		3. PREVENTIVE MAINTENANCE INSTRUCTIONS - on the complete system that cover daily, weekly, monthly, biannual, and annual maintenance requirements and include a complete lubrication chart.
		4. ROUTINE TEST PROCEDURES - for all electronic and electrical circuits and for the main AC generator.
		5. TROUBLESHOOTING CHART - covering the complete generator set showing description of trouble, probable cause and suggested remedy.
		6. RECOMMENDED SPARE PARTS LIST - showing all consumables anticipated to be required during routine maintenance and test.
		7. Warranty documents, test certificates, requisite certificates as specified, and all other relevant documents specified in OIL's purchase order.
		8. Three (03) sets of following documents shall be submitted in bound form along with the supply of the genset (s):
		i. GA drawing
		ii. Scheme, layout plan of the unit showing all parts.
		iii. Bill of materials of all components.
		iv. Composite O&M manual of the generator covering all sub-systems.
		v. Part Manual for Engine and Alternator.
		vi. All test certificates for tests done at manufacturer's works
		vii. List of recommended spares for two years including part nos. and descriptions.

ELECTRICAL SPECIFICATIONS:

Sl. No.	Description	Specifications
I	Alternator	1. General Description: Brushless type alternator rated at 30 KVA 230 Volts, 0.8 PF, 50 Hz, 1500 rpm, Single Phase Voltage regulation of +/- 5% with class "F/H" insulation.
		2. Make: Crompton Greaves/Stamford/Kirloskar/ Greaves/Leroy somer
		3. Rated Output: 30 kVA
		4. Enclosure: IP 23 (SPDP)
		5. Earthing: Earthing of the machine shall be done in accordance with the relevant provisions of IS- 3043:1992.
		6. Rated Voltage: 230v +/- 5% Volts
		7. Applicable standard: IS :13364 Part-2, 1992
		8. Duty: Continuous
		9. The Voltage output shall be maintained within 230V +/-5% and frequency at 50 +/-1 Hz at rated load. The voltage regulation from No load to full load shall be within 15%.
		10. Excitation system: Brushless, self-excited, self-regulated with solid state AVR. The brushless Alternator shall have exciter and rotating rectifier-bridge mounted on shaft complete with diodes and surge suppressor, main field windings and stator windings.
		11. Direction of rotation: Clockwise from DE
		12. Automatic voltage regulator: Machine / Control Panel mounted
		13. Voltage regulation: +/-1% with 4% prime mover speed variation, VR Grade VG1
		14. Time to build up rated voltage: Shall be less than 5 seconds at rated RPM
		15. Class of insulation: F/H
		16. Cooling: IC 01, air cooled by integral fan
		17. Wave form distortion (THD): Less than 3%
		18. Overload capacity: 10% overload for 1 hr. once in 12 hrs.
		19. No. of bearings: Single /Double
		20. Lubrication type: Grease Lubricated
		21. Generator output shall be terminated on a suitably rated 2 pole RCBO, with 30mA earth leakage protection.

Sl. No.	Description	Specifications
		<p>22. Generator shall have provision for earthing at two separate points on the body/foot of the machine.</p> <p>23. Control Panel: Sheet steel clad, self-supporting, floor mounting, cubicle type, dust and vermin proof generating set control panel made of 2mm thick MS CRCA sheet and built upon rigid framework of channels, beams as required, having front and rear hinged doors with danger plate fitted on both sides, lifting lugs on top, ventilation louvers on both sides, bottom detachable gland plates, double earthing studs on two sides, complete with suitably sized zinc passivated hard wares with heavy plain and spring washers. All cable entry shall be from bottom side. Removable gland plates shall be provided for all cables.</p> <p>The genset shall have integrated panel with the following accessories:</p> <ul style="list-style-type: none"> • Voltmeter: 1 no. • Frequency meter: 1 no. • Ammeter: 1 no. with CT. • 1 no. Digital multifunction meter indicating Voltage (V), Current(A), Frequency (Hz), Power factor(pf), Active Power (KW), Reactive Power (KVAR), Energy(KWH), Maximum Demand (MD) • LED indication of incoming power • Emergency off push button • The electrical connection between the alternator and control panel shall be through copper cables. • Potential circuit wiring of the control system shall be done with 1.5 sq mm, flexible copper, 1100V grade PVC insulated wires approved by ISI, TAC, FIA. • Potential circuit wiring of the control system shall be done with 1.5 sq mm, flexible copper, 1100V grade PVC insulated wires approved by ISI, TAC, FIA. • One no. Double Pole RCBO of suitable rating with breaking • Capacity minimum 19KA along with suitable rating Fuse shall be provided to protect the alternator in case of short circuit. • Separate TB shall be provided for all interconnection cables between control panel and engine. <p>Ferrules shall be provided for identification of cables. All components shall be labeled for identification.</p> <p>24. Generating set shall be capable to operate satisfactorily under the following site conditions:</p> <p>(a) Altitude: Height above sea level not exceeding 150 meters. At other site conditions derating shall apply as per IS:7347-1974.</p> <p>(b) Ambient temp: Ambient temp. at operating site does not exceed 45-degree C.</p> <p>25. The battery and battery charging unit of suitable rating should be provided, duly mounted on genset with fuse protection system.</p> <p>26. Safety features:</p> <p>a) Protection for under voltage and over voltage with engine shut off.</p> <p>b) Over frequency and under frequency monitoring and protection with engine shut off.</p> <p>c) Overload protection with engine shut off.</p> <p>d) Earth leakage protection of 30mA.</p> <p>27. Rating plate: The rating plate shall be marked with the following information:</p> <p>(a) Name of the manufacturer.</p> <p>(b) Manufacturer's number and frame reference.</p> <p>(c) Frequency, number of phase.</p> <p>(d) Rated output in KVA.</p> <p>(e) Rated voltage and current.</p>

Sl. No.	Description	Specifications
		(f) Power factor.
		(g) Type of duty.
		(h) Speed, in revolution per minute.
		(i) Excitation and voltage at rated output
		(j) Class of insulation and additional information if any.
II	GENERAL NOTES:	<p>1) A tool set for maintenance and simple repair and including a Clampmeter shall be part of the delivery.</p> <p>2) The bidder shall guarantee the offered item for a minimum period of 12 (twelve) months from the date of commissioning/ suitability of the item. Valid guarantee certificate, in this regard, shall be submitted along with the delivery of the item.</p> <p>3) Following spares shall be supplied by the party along with package.</p> <p>1. AVR Unit for Alternator- One no. per Gen Set.</p> <p>2. Rotating rectifier assembly fitted with complete set of forward and reverse diodes- One set per Gen set.</p> <p>4) Operation and technical manuals related to the type and model of the generator shall be part of the delivery.</p>
III	DOCUMENTS SUBMITTED ALONG WITH THE OFFER:	
	1	<p>i. Technical datasheet of the alternator.</p> <p>ii. Type test certificate as per IS 13364(2) of a 30kVa alternator of the same make and model as offered.</p> <p>iii. Power & control wiring diagram of control panel.</p> <p>iv. Confirmation/declaration that the offered panels shall conform to all the points of the tender. Any deviation from the tender specs must be clearly mentioned with technical justifications.</p> <p>v. Confirmation/declaration to submit guarantee certificate at the time of supply for both alternator and the control panel for a period of minimum 12 months from the date of commissioning.</p>
	2	<p>After placement of PO and before manufacturing: Following documents shall be submitted for approval of OIL after placement of PO and the vendor shall proceed for manufacturing of the alternator and panel after the approval of the same:</p> <p>i. Dimensional drawing, schematics and layout of the alternator and the control panel(s) inside the acoustic enclosure.</p> <p>ii. GA drawing and Single line diagram of the Control Panel(s)</p> <p>iii. Detailed power & control wiring diagram, detailed enclosure drawings for control panel, earthing</p> <p>iv. Scheme, layout plan of the unit showing all parts.</p> <p>v. Details of power cables, control cable and their routes.</p> <p>vi. Bill of material of the component of the control panel(s).</p>
	3	<p>At the time of delivery:</p> <p>i. Type Test certificate as per IS 13364(2) for the generating set, control panel and complete unit.</p> <p>ii. 3 sets of as built GA and single line diagram of the Control panel(s)</p> <p>iii. 3 sets of Operation, Maintenance and troubleshooting manual of the alternator.</p> <p>iv. Guarantee certificate for both alternator and the control panel for a period of minimum 12 months from the date of commissioning.</p>

Inspection and Testing

- 1) The complete unit of engine and alternator along with control panel shall be inspected and tested at manufacturer's works / factory by a team of OIL's Engineers prior to dispatch. The party will arrange the requisites for the test run of the unit at their cost. Intimation for inspection of complete unit must be sent to OIL at least 30 days in advance.

Any modification suggested during inspection shall be carried out by supplier at no additional cost. Supplier shall affect dispatch of the unit to OIL, Duliajan, only on receipt of OIL's dispatch advice.

Inspection/testing charges, if any, shall be included in the quoted price which shall be considered for

evaluation of the offers. To and fro fares, boarding/lodging and other en-route expenses of OIL's Inspection team for carrying out inspection shall be borne by OIL.

- 2) During inspection each DG set will be tested at various loads including 10% overload for a period of 1 Hour during a testing period of not less than 4 hours in presence of OIL's Engineers and the performance parameters recorded should be within the figure/range given for the offered units. The DG set should be capable of running at full load conditions for about an hour after the overload test.
- 3) A draft copy of Composite Operating Instructions of the complete Generator Set with description and illustration of all switchgear controls and indicators and engine and generator controls shall have to be submitted to OIL's inspection team during the time of pre-dispatch inspection for approval. The approved copy to be supplied along with the Documents as detailed in the table above.

Responsibility

The responsibility for performance to the specifications shall not be divided among individual component manufacturers but must be assumed solely by the supplier. This includes generating system design, manufacture, test, and having a local supplier responsible for service, parts and warranty for the total system.

Service and warranty:

- 1) The manufacturer shall have a local (placed in Assam) authorized dealer who can provide factory trained servicemen, the required stock of replacement parts, technical assistance, and warranty administration.
- 2) The warranty period for the Genset and ancillary equipment should be a minimum of 12 months from the date of commissioning of the equipment. Any defects in the Engine or Alternator during warranty period shall be replaced by the supplier at his cost without any extra charge to OIL.
- 3) The bidder should confirm that spares will be available, and provisioning of spares can be continued for the next 10 years.

ANNEXURE – (IC) 2

TECHNICAL SPECIFICATIONS FOR 30 KVA SILENT DIESEL ENGINE DRIVEN GENERATING SET

Clause	Description	Specifications
I	General	Diesel Generating set of capacity 30 kVA, single phase, 230 volts, 50 Hz, 0.8 Power Factor, complete with Diesel Engine (@1500 rpm), Alternator, Electric Control Panel and Acoustic Enclosure conforming to the specifications given below. Diesel engine and alternator shall be closely coupled (as per manufacturer's standard) and mounted on a base plate of robust in construction.
II	Statutory Norms	<p>1) Engine: 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)- section 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government (Govt. of India) and subsequent notifications as applicable.</p> <p>The offered Engine of the DG set should have valid Conformity of Production Verification for Emission Compliance from Certification Agencies as per latest CPCBIV+ notification. A copy of the same has to be furnished along with the offer.</p> <p>2) Acoustic Enclosure (Canopy):</p> <p>(i) 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 CPCBIV+ 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]</p> <p>(ii) The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCBIV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer.</p> <p>(iv) The bidder must confirm the following in their bid, failing which their bid shall be rejected:</p> <p>(a) In the event of any new CPCBIV+ norms/regulations governing Diesel Engine driven Generating set are made effective prior to delivery of the Set (but after bid closing date) the supplied DG set shall comply with the latest CPCBIV+ norms/regulations.</p> <p>(b) The compliance report from Govt. approved agencies, if any, must be submitted prior to dispatch of the Generating set for OIL's scrutiny and acceptance.</p>
III	Prime mover (Diesel Engine)	<p>1) General Site Conditions:</p> <p>(i) Maximum Temperature: 45°C, Minimum Temperature: 5°C (ii) Maximum Relative Humidity at 21°C: 100 %, at 35 °C: 95 %, at 41 °C: 70% (iii) Maximum Altitude above mean Sea Level: 150M</p> <p>2) Governing Standards: Engine: IS: 10001/BS: 5514 or applicable standard. (ii) Governing: Class A-1 specifications of IS: 10000 / BS: 5514. OR Governing class (As per ISO 8528 Part-V).</p> <p>3) Make of engine: To be specified by bidder.</p> <p>4) Model of engine: To be specified by bidder.</p> <p>5) Duty: To be specified by bidder.</p>

Clause	Description	Specifications
		6) RPM: 1500
		7) Fuel: HSD: IS 1460 (latest edition)
		8) Start: Electric Start
		9) Cycle: Four Stroke
		10) Cylinder: Multi cylinder (Bidder to specify number of cylinders of the offered engine)
		11) Engine Arrangement: Vertical, Inline/V Engine
		12) Compression Ratio: <i>To be specified by bidder.</i>
		13) Size (bore & stroke): <i>To be specified by bidder.</i>
		14) Displacement: <i>To be specified by bidder.</i>
		15) Aspiration: Naturally Aspirated or Turbocharged.
		16) Engine Cooling System: Water or Air
		17) Gross HP at 1500 RPM: <i>To be specified by bidder.</i>
		18) HP Deductions: (Please specify the considered deductions)
		19) Net Minimum Available Horsepower: Engine should be able to develop power required for driving a generating set of 30 kVA rated for Prime Duty at 1500 rpm (Output available with varying load for an unlimited time) with an overload capacity of 10% for a period not exceeding One Hour in any 12 hours running when running at 1500 or 1500 R.P.M. The Supplier should mention the NET available power for Gen set for Prime duty application.
		20) Power for Prime Duty: 30 kVA (Output available with varying load for an unlimited time). The engine shall be capable of delivering the rated output without undue heating of the engine or any other mechanical trouble, as per site conditions given at (1) above.
		21) Specific Fuel Consumption at: 100% Load 75% Load 50% Load
		22) Lube Oil Consumption (LT/HR):
		23) Air Intake System: Type of Air cleaner of the offered engine to be furnished.
		24) Starting System: The Starting System should have an electric starting system comprising of Maintenance Free Lead – Acid Batteries with 90/150/180 AH Capacity of Reputed Make, Engine mounted Battery charging Alternator (preferably of Make: LUCAS TVS), 12 Volt Starter (preferably of Make: LUCAS TVS/ DELCO REMY).
		25) Engine Exhaust System: The Exhaust System should comprise of: Exhaust Manifold, Stainless steel Exhaust Flexible connection, Exhaust Silencer, Spark Arrestor and associated Piping connections with proper clamping arrangement with all exposed parts properly insulated.
		26) Fuel System: The Fuel System should comprise of an inline fuel pump with mechanical Governor, Fuel Injectors, replaceable Fuel Filters and fuel level indicator. Fuel Tank should be integrated inside the acoustic enclosure with drain valve, and inlet & outlet connection. The fuel tank should have maximum capacity of 990L or 8 hours of continuous running at full load of DG set, whichever is lower.
		27) 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.
		28) Gauges and Instruments:
		The Engine instrument Panel should include the following:
		i) Lubricating oil pressure gauge
		ii) Water temperature gauge
		iii) Lube oil temperature gauge
		iv) Starting Switch
		v) Digital/Mechanical Tachometer and Hour Meter
		vi) Ammeter / Battery Charging Indicator
		vii) Engine Low Lube Oil Pressure indication display red lamp
		viii) Engine Over Temperature / Cooling System Failure indication display red

Clause	Description	Specifications
		<p>lamp</p> <p>ix) Emergency Stop Switch (Mounted on exterior of the Acoustic Canopy)</p> <p>NB: <i>All the Gauges and Instruments should be easily visible from outside of the Acoustic Enclosure/ Canopy.</i></p> <p>29) Engine Safety Controls: The following Safety shut off/trip system should be incorporated to Shut Down the Engine in the event of:</p> <p>i) Low Lubricating oil pressure.</p> <p>ii) Engine over speed.</p> <p>iii) Engine over Temperature / Cooling System Failure.</p> <p>NB: <i>The Safety shut off/trip system should indicated the type of trip in case of activation and also should have an audible alarm/ hooter to indicate Tripping of the Engine.</i></p> <p>30) Other Features should be as under:</p> <p>i) Flywheel</p> <p>ii) Flexible Coupling</p> <p>iii) Lifting eyes</p> <p>iv) Standard Guards over Belt Drives (Blower Fan Drive, charging, Alternator drives pulley and flexible coupling)</p> <p>v) Standard Painting</p> <p>vi) SAE standard rotation</p> <p>31) The engine of the offered DG Set should have the following:</p> <p>(i) A proven track record for DG Set applications in Central/State PSUs or Central/State Govt. Organizations of India or any other Public Limited Company. Relevant documentary evidence in this regard to be furnished.</p> <p>(ii) It should also have logged minimum successful 6000 hours of running or should have completed one year of successful running from its date of commissioning in the last 5 years prior to the bid closing date of this tender. Satisfactory performance certificate from end user in this regard to be furnished.</p>
IV	Acoustic enclosure	<p>The generating set comprising of engine coupled with alternator, control panel etc. for each set should be placed inside an acoustic enclosure having the following salient features:</p> <p>(1) 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 with must be 75 dB(A) at 1 meter away from the enclosure surface and must conform to the latest CPCBIV+ norms [G.S.R. 771(E). – The emission limit of the Diesel engine of the generating set must comply with the latest CPCBIV+ norms 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.</p> <p>(2) The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCBIV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer.</p> <p>[Certification agencies/Authorized agencies of certification are -</p> <ol style="list-style-type: none"> 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]. <p>(3) The acoustic enclosure should be modular type. This should facilitate easy assembling/dismantling</p> <p>(4) The temperature of exhaust line should not exceed the self-ignition temperature of fuel. A high temperature trip system (to shut down the engine by cutting off fuel supply to the engine through the solenoid valve) with variable setting connected to a thermostatically controlled blower must be provided for eliminating excessive heat dissipated by the engine within the</p>

Clause	Description	Specifications
		acoustic enclosure.
		(5) The enclosure should have the sufficient space in and around the generating set to facilitate maintenance and operation of the set
		(6) Acoustic Enclosure's base frame should incorporate necessary facilities for handling and inter location transfer through oil field trucks.
		(7) The canopy should be finished in synthetic enamel paint incorporating rust inhibitors and aluminium sprayed silencers and spark arrestors to guarantee a superior and long-lasting finish.
		(8) Exhaust silencer shall have to be provided of the size as recommended by the manufacturer and shall attenuate the sound to the level noted above. It shall be supplied with a flexible, seamless, stainless steel exhaust connection as well as with all internal pipe work and suitably designed Spark Arrestor.
		(9) The acoustic enclosure with skid should also incorporate:
		a) Locking arrangement (Provision for fitting external lock and key)
		b) Lifting arrangement for entire skid/gen set with enclosure.
		c) Draining arrangement for fuel and lube oil.
		d) Air breather.
		e) Hood for rain protection
		f) Emergency stop button
		g) Panel meter viewing window
V	Skid / base frame (for the DG set)	The engine and alternator are to be close coupled and both be mounted on a suitably designed skid as a base frame fitted with requisite number of suitably designed Anti Vibration Mountings (AVM) for making the DG set vibration free.
VI	Spare parts	<p>1) Bidder should have to confirm the availability of all the spares for the complete Gen Sets for minimum 10 years from the date of delivery of materials.</p> <p>2) Spares for two years normal operation in addition to the normal commissioning spares and consumables of the generating set should be provided in the bid, however the price of these spares (<i>Spares for two years normal operation</i>) shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the package. Item wise breakdown price of these spares should also be provided as under -</p> <p><u>NOTE FOR SUBMISSION OF SPARE PRICE LIST:</u> <i>The price of Spares for two years normal operation shall be provided separately as pdf. document under "Financial Documents" while submitting the Price Bids in GeM Portal. The price of these spares shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the package. Also please note that NO PRICE should be mentioned in the TECHNICAL BID.</i></p> <p>3) The following items shall have to be offered as MANDATORY SPARES and to be supplied along with the complete package (<i>The cost of the same to be included in the equipment cost</i>):</p> <p>(a) Engine Spares:</p> <p>i. Fuel filter - 06 nos. (per genset)</p> <p>ii. Lube oil filter - 06 nos. (per genset)</p> <p>iii. Air filter- 06 nos. (per genset)</p> <p>iv. Complete Set of Belts - 04 Sets (per genset)</p> <p>v. Lube Oil for initial filling (per genset)</p>
VII	Documents to be attached with the final shipment (for the DG set)	<p>The following documents [at least 03 bound sets (if not specified otherwise hereunder)] are to be separately packed and forwarded to HoD - GEOPHYSICS DEPT, OIL INDIA LIMITED, DULIAJAN- 786602, ASSAM, clearly indicating the OIL's Purchase order no and the description.</p> <p>1. COMPOSITE OPERATING INSTRUCTIONS - with description and illustration of all switchgear controls and indicators and engine and generator controls. Draft copy of the same to be submitted to OIL's inspection team during the time of pre-dispatch inspection for approval.</p> <p>2. PARTS BOOKS - that illustrate and list all assemblies, subassemblies and components.</p>

Clause	Description	Specifications
		3. PREVENTIVE MAINTENANCE INSTRUCTIONS- on the complete system that cover daily, weekly, monthly, biannual, and annual maintenance requirements and include a complete lubrication chart.
		4. ROUTINE TEST PROCEDURES- for all electronic and electrical circuits and for the main AC generator.
		5. TROUBLESHOOTING CHART- covering the complete generator set showing description of trouble, probable cause and suggested remedy.
		6. RECOMMENDED SPARE PARTS LIST- showing all consumables anticipated to be required during routine maintenance and test.
		7. Warranty documents, test certificates, requisite certificates as specified, and all other relevant documents specified in OIL's purchase order.
		8. Three (03) sets of following documents shall be submitted in bound form along with the supply of the genset (s) -
		i. GA drawing
		ii. Scheme, layout plan of the unit showing all parts.
		iii. Bill of materials of all components.
		iv. Composite O&M manual of the generator covering all sub-systems.
		v. Part Manual for Engine and Alternator.
		vi. All test certificates for tests done at manufacturer's works
		vii. List of recommended spares for two years including part nos. and descriptions.

ELECTRICAL SPECIFICATIONS:

Sl. No.	Description	Specifications
I	Alternator	1. General Description: Brushless type alternator rated at 30 KVA 230 Volts, 0.8 PF, 50 Hz, 1500 rpm, Single Phase Voltage regulation of +/- 5% with class "F/H" insulation.
		2. Make: Crompton Greaves/Stamford/Kirloskar/ Greaves/Leroy somer
		3. Rated Output: 30 kVA
		4. Enclosure: IP 23 (SPDP)
		5. Earthing: Earthing of the machine shall be done in accordance with the relevant provisions of IS- 3043:1992.
		6. Rated Voltage: 230v +/- 5% Volts
		7. Applicable standard: IS :13364 Part-2, 1992
		8. Duty: Continuous
		9. The Voltage output shall be maintained within 230V +/-5% and frequency at 50 +/-1 Hz at rated load. The voltage regulation from No load to full load shall be within 15%.
		10. Excitation system: Brushless, self-excited, self-regulated with solid state AVR. The brushless Alternator shall have exciter and rotating rectifier-bridge mounted on shaft complete with diodes and surge suppressor, main field windings and stator windings.
		11. Direction of rotation: Clockwise from DE
		12. Automatic voltage regulator: Machine / Control Panel mounted
		13. Voltage regulation: +/-1% with 4% prime mover speed variation, VR Grade VG1
		14. Time to build up rated voltage: Shall be less than 5 seconds at rated RPM
		15. Class of insulation: F/H
		16. Cooling: IC 01, air cooled by integral fan
		17. Wave form distortion (THD): Less than 3%
		18. Overload capacity: 10% overload for 1 hr. once in 12 hrs.
		19. No. of bearings: Single /Double
		20. Lubrication type: Grease Lubricated
		21. Generator output shall be terminated on a suitably rated 2 pole RCBO, with 30mA earth leakage protection.
		22. Generator shall have provision for earthing at two separate points on the body/foot of the machine.

		<p>23. Control Panel: Sheet steel clad, self-supporting, floor mounting, cubicle type, dust and vermin proof generating set control panel made of 2mm thick MS CRCA sheet and built upon rigid framework of channels, beams as required, having front and rear hinged doors with danger plate fitted on both sides, lifting lugs on top, ventilation louvers on both sides, bottom detachable gland plates, double earthing studs on two sides, complete with suitably sized zinc passivated hard wares with heavy plain and spring washers.</p> <p>All cable entry shall be from bottom side. Removable gland plates shall be provided for all cables.</p> <p>The genset shall have integrated panel with the following accessories:</p> <ul style="list-style-type: none"> • Voltmeter: 1 no. • Frequency meter: 1 no. • Ammeter: 1 no. with CT. • 1 no. Digital multifunction meter indicating Voltage (V), Current(A), Frequency(Hz), Power factor(pf), Active Power(KW), Reactive Power(KVAR), Energy(KWH), Maximum Demand (MD). • LED indication of incoming power • Manual start/off switch • Emergency off push button • The electrical connection between the alternator and control panel shall be through copper cables. • Potential circuit wiring of the control system shall be done with 1.5 sq mm, flexible copper, 1100V grade PVC insulated wires approved by ISI, TAC, FIA. • One no. Double Pole RCBO of suitable rating with breaking • Capacity minimum 19KA along with suitable rating Fuse shall be provided to protect the alternator in case of short circuit. • Separate TB shall be provided for all interconnection cables between control panel and engine. • Ferrules shall be provided for identification of cables. All components shall be labeled for identification. <p>24. Generating set shall be capable to operate satisfactorily under the following site conditions:</p> <p>(a) Altitude: Height above sea level not exceeding 150 meters. At other site conditions derating shall apply as per IS:7347-1974.</p> <p>(b) Ambient temp: Ambient temp. at operating site does not exceed 45 degree C.</p> <p>25. The battery and battery charging unit of suitable rating should be provided, duly mounted on genset with fuse protection system.</p> <p>26. Safety features:</p> <p>a) Protection for under voltage and over voltage with engine shut off.</p> <p>b) Over frequency and under frequency monitoring and protection with engine shut off.</p> <p>c) Overload protection with engine shut off.</p> <p>d) Earth leakage protection of 30mA.</p> <p>27. Rating plate: The rating plate shall be marked with the following information:</p> <p>(a) Name of the manufacturer.</p> <p>(b) Manufacturer's number and frame reference.</p> <p>(c) Frequency, number of phase.</p> <p>(d) Rated output in KVA.</p> <p>(e) Rated voltage and current.</p> <p>(f) Power factor.</p> <p>(g) Type of duty.</p> <p>(h) Speed, in revolution per minute.</p> <p>(i) Excitation and voltage at rated output</p> <p>(j) Class of insulation and additional information if any.</p>
II	GENERAL	1) A tool set for maintenance and simple repair and including a Clampmeter shall be part of the delivery.

	NOTES:	2) The bidder shall guarantee the offered item for a minimum period of 12 (twelve) months from the date of commissioning/ suitability of the item. Valid guarantee certificate, in this regard, shall be submitted along with the delivery of the item.
		3) Following spares shall be supplied by the party along with package. 1. AVR Unit for Alternator- One no. per Gen Set. 2. Rotating rectifier assembly fitted with complete set of forward and reverse diodes- One set per Gen set.
		4) Operation and technical manuals related to the type and model of the generator shall be part of the delivery.
III	DOCUMENTS SUBMITTED ALONG WITH THE OFFER:	
	1	(i) Technical datasheet of the alternator. (ii) Type test certificate as per IS 13364(2) of a 30kVa alternator of the same make and model as offered. (iii) Power & control wiring diagram of control panel. (iv) Confirmation / declaration that the offered panels shall conform to all the points of the tender. Any deviation from the tender specs must be clearly mentioned with technical justifications. (v) Confirmation / declaration to submit guarantee certificate at the time of supply for both alternator and the control panel for a period of minimum 12 months from the date of commissioning.
	2	After placement of PO and before manufacturing: Following documents shall be submitted for approval of OIL after placement of PO and the vendor shall proceed for manufacturing of the alternator and panel after the approval of the same: (i) Dimensional drawing, schematics and layout of the alternator and the control panel(s) inside the acoustic enclosure. (ii) GA drawing and Single line diagram of the Control Panel(s) (iii) Detailed power & control wiring diagram, detailed enclosure drawings for control panel, earthing. (iv) Scheme, layout plan of the unit showing all parts. (v) Details of power cables, control cable and their routes. (vi) Bill of material of the component of the control panel(s).
	3	At the time of delivery: (i) Type Test certificate as per IS 13364(2) for the generating set, control panel and complete unit. (ii) 3 sets of as built GA and single line diagram of the Control panel(s) (iii) 3 sets of Operation, Maintenance and troubleshooting manual of the alternator. (iv) Guarantee certificate for both alternator and the control panel for a period of minimum 12 months from the date of commissioning.

Inspection and Testing

- 1) The complete unit of engine and alternator along with control panel shall be inspected and tested at manufacturer's works / factory by a team of OIL's Engineers prior to dispatch. The party will arrange the requisites for the test run of the unit at their cost. Intimation for inspection of complete unit must be sent to OIL at least 30 days in advance.

Any modification suggested during inspection shall be carried out by supplier at no additional cost. Supplier shall affect dispatch of the unit to OIL, Duliajan, only on receipt of OIL's dispatch advice.

Inspection/testing charges, if any, shall be included in the quoted price which shall be considered for evaluation of the offers. To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying our inspection shall be borne by OIL.

- 2) During inspection each DG set will be tested at various loads including 10% overload for a period of 1 Hour during a testing period of not less than 4 hours in presence of OIL's Engineers and the performance parameters recorded should be within the figure/range given for the offered units. The DG set should be capable of running at full load conditions for about an hour after the overload test.
- 3) A draft copy of Composite Operating Instructions of the complete Generator Set- with description and illustration of all switchgear controls and indicators and engine and generator controls shall have to be submitted to OIL's inspection team during the time of pre-dispatch inspection for approval. The approved copy to be supplied along with the Documents as detailed in the table above.

Responsibility

The responsibility for performance to the specifications shall not be divided among individual component manufacturers but must be assumed solely by the supplier. This includes generating system design, manufacture, test, and having a local supplier responsible for service, parts and warranty for the total system.

Service and warranty:

- 1) The manufacturer shall have a local (placed in Assam) authorized dealer who can provide factory trained servicemen, the required stock of replacement parts, technical assistance, and warranty administration.
- 2) The warranty period for the Gen set and ancillary equipment should be a minimum of 12 months from the date of commissioning of the equipment. Any defects in the Engine or Alternator during warranty period shall be replaced by the supplier at his cost without any extra charge to OIL.
- 3) The bidder should confirm that spares will be available and provisioning of spares can be continued for the next 10 years.

****End of Section IC****

SECTION - ID

PERIPHERALS

11.0 PERIPHERALS

11.1 **Uninterrupted Power Supply (3 Nos.)** - Suitable online UPS of sufficient capacity & rating with at least 15 minutes back up time should be offered. The UPS should be able to cater to the safety requirement of all the Electronic Hardware installed in the recorder Cabin as well as provide ample time to the observer for proper shutdown of the seismic data acquisition system and all the associated peripherals. One UPS will be installed in the recording cabin for above requirement and the two (2) will be kept as ready standby (kept at the base camp) with all the accessories so that it is ready to be interfaced with the recording cabin as and when required.

11.2 **Laser Printer (1 No.)** - One no. of Laser Colour Printer with the following minimum specification or higher.

- Print Quality: up to 1200 x 1200 dpi (Black & Colour)
- Compatible operating systems: Windows 11 professional/XP/Ultimate or equivalent
- Print Technology: Laser
- Processor Speed: 800 MHz
- Print Speed best quality mode: Black (35ppm), Colour (35 ppm)
- Memory Standard: 1GB
- Media Supported: Paper (Plain, inkjet, photo, banner), envelopes, transparencies etc.
- Input capacity Standard: 150 Sheet or more
- Duplex Printing
- Connectivity: USB 2.0, 1Gigabit Ethernet
- Power: 220/230 V AC, 50 Hz

11.2.1 The printer should be complete with all the accessories & peripherals viz. User's Guide, printer Documentation, software in suitable media (as applicable), Network guide, power cord etc.

11.2.2 Atleast 5 sets of colour cartridges should be provided for the item mentioned in **Section – ID**, item no. 11.2.

11.3 **DC Power Supply** - 12 Volts DC power supply for powering up peripheral **(4 Nos.)**

Equipment in the recording cabin/data harvesting & battery charging cabin should be provided. One no. of DC power supply to be interfaced with the CRU / peripheral equipment and other will be kept as ready standby with all the accessories.

11.4 TEST & MEASURING EQUIPMENTS

11.4.1 **A complete set of mobile workstation-based Test and Maintenance equipment (one no.)** along with necessary operating and interface software specific to the offered ground electronics (if applicable) should be provided for testing, calibration and troubleshooting of field ground electronics including complete workshop facilities (toolkits, oscilloscopes, soldering etc.) should be provided. This system must be capable of recording and troubleshooting in logistically difficult terrain with minimum capacity of 3000 channels at a time. The Test & Maintenance Equipment should be able to test, calibrate and diagnose the ground electronics without the help of Central Controlling /Recording Unit (CRU).

11.4.2 **Field QC tool (at least 50 numbers)**: Field QC tools compatible with ground station units shall be supplied for field status collection. The tools should be able to collect position QC and sensor health status available at ground station level for positioning of supplied ground station units in advance for ensuring error-free acquisition spread and capable of performing all the standard sensor tests independently (sending of sensor test command and display of sensor test results with event log storage option). The supplied equipment needs to have minimum following features to be communicated to CRU/CCU through human intervention at ground station level:

- a. GPS/Battery/Position/available memory/station unit identification log status
- b. Noise /channel response

- c. Common Mode Rejection
- d. Sensor,
- e. leakage,
- f. harmonic distortion,
- g. natural frequency,
- h. damping,
- i. distortion etc.

11.4.3 **Five (5) nos. of rugged geophone testers** with all accessories and peripherals. The geophone tester should be capable of testing the industry standard geophone element & geophone strings in the field environment and in the seismic workshop. The tester should have library for retaining the fed parameters of the geophones. The geophone tester should have sufficient memory so as to store the system software and results of various analyses in memory/Hard Disk of the system. A suitable printer should also be provided to print out the test results on paper if the printer is not a part and parcel of the system. The geophone tester should be fully compatible with the quoted geophone and should be a portable system having the capability for measurement of the following parameters:

- Sensitivity, Natural Frequency, Damping Coefficient
- Distortion
- Polarity Test, Leakage etc.

Note: Irrespective of the specification/detail requirement given herewith vendor need to provide/quote the same, if any additional software & hardware items required for the purpose, without any extra cost to OIL.

12.0 PC BASED WORKSTATIONS:

12.1 **PC WORKSTATION (2 nos.)** - Should be quoted (only branded systems viz. HP, LENOVO & DELL to be quoted) with the following specifications or higher.

Processor	Intel® Xeon® 4.7 GHz, 24 MB L3 cache, 14 cores or higher Chipset Intel(R) Chipset or higher.
RAM	Minimum 64 GB (2x32GB) DDR4 1666 MHZ ECC expandable up to 256 GB with at least 8 DIMM Slots,
Graphic Card	8 GB NVIDIA QUADRO
Slots	Minimum 3 nos. of PCIe Series Slots
Ports	6 USB 3.0 (two on front panel, four on I/O back panel), 1 ESATA port on back panel (Other ports to be provided by vendor as per compatibility with system, if any.) 2 HDMI port, 1 DVI port, 1 USB C type port and WLAN interface, 2 RJ 45
Optical Drives	Minimum 16X DVD + /-RW with Dual Layer Drive Write Capabilities (Preferably same make & colour as CPU box) Complete with driver software on CD/DVD media, standard accessories, and cables.
SDD	Minimum 2 x 1TB (7200RPM) SATA Drive, RAID 0 Configuration
Display	OEM minimum 24 inch (diagonal) Flat Panel LED Monitor with standard accessories and cables
Keyboard /Mouse	4 keys keyboard & 3 button USB Optical Mouse with mouse pads.
Network	Integrated 10/100/1000 Mbps Ethernet Controller and IPV6 compliant.
Operating System	System has to be preloaded with the latest version of operating system (Windows 10 professional 64 bit or higher or as per system compatibility).
	Note: A copy of Latest version of operating system preloaded in the workstation (mentioned above) including latest service packs/patches/drivers along with licenses is to be provided in CD/DVD media & documentation.
Drivers	All the Drivers for the latest operating software as mentioned have to supply in suitable media.
Antivirus	Preloaded Norton 360 deluxe or equivalent software with minimum 3-year subscription shall be provided.
Chassis	Vertical Tower or Inbuilt in system

Others Peripheral	a) Power Cables b) Power Extension spike guard with 6 Nos. of 5 or 15 Amps output or both as per the system requirement c) Patch Cord- Min 3m length with branded factory made. d) 10 meter HDMI to HDMI cable e) All drivers on CD/DVD/USB media f) Energy star 5.0 certified
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12.2 **Laptop (1 No.)** - Should be quoted (only branded systems viz. HP, Lenovo, and DELL to be quoted) with the following specifications or higher:

Processor	Minimum 12 Generation Intel Core i7 Processor (4.7 GHz, 24 MB L3 cache, 14 cores) equivalent or higher.
OS	Windows 11 Pro 64 bit or Higher as per latest available at time of supply
Memory	32 GB DDR5-4800 MHz RAM (1 x 32 GB)
Storage	1 TB SSD SATA 3,
Graphics	NVIDIA® Quadro® T600 (4 GB GDDR6 dedicated)
Display	Minimum 15.6" diagonal FHD (1920x1080) or Higher
Keyboard	Standard keyboard with touchpad & backlight
Mouse	All surface Bluetooth Mouse
Connectivity	2 nos. USB 3.0 ports, 1 nos. HDMI Port, 1 nos. USB C type, 1 nos. eSATA/USB 3.0 combo port, 1 RJ 45 Ethernet, security lock slot
Audio	Stereo sound with internal speakers, Integrated Microphone
Battery	Minimum 8 cell Li-Ion Battery,
Adapter	External AC adapter with Power cord
Others	All Drivers on CD/DVD media, carrying case, users' manual in English Only. Power and all other interconnecting cables to be provided, Power extension spike guard with six nos. of 5 or 15 amps output or both as per the system requirement.

12.3 **Tape drives (04 Nos.)** - Out of four (04) nos. of tape drives two (02) nos. of the Dual tape drives in LTO-IX/IBM 3592 E7 and the other Two (02) nos. are higher than LTO-IX/IBM 3592 E7 tape drives in Dual tape mode.

These should be complete with all the requisite accessories and peripherals viz. inter- connecting cables, power leads etc. These Tape Drives are required for copying seismic data recorded on External Storage devices / Internal Storage Devices and also required to cater to the requirement of processing & archival section of OIL. Two (02) nos. of LTO-IX/IBM 3592 E7 drives will be specifically installed at the base camp for copying the recorded data and another two (02) nos. of drives (which are higher than LTO-IX/IBM 3592 E7 tape drives) will stand alone that can be hooked to other systems. All the necessary hardware, software, drivers, or licenses required to interface these drives with the desktop PC / server should be provided so that they are ready to use for data recording/data copying off-line. (Cleaning Cartridges of 10 nos. should also be provided along with Tape drives and 30 Nos. of empty LTO-IX/IBM 3592 E7 tapes.

12.4 **DOCUMENTATION & MANUALS**

12.4.1 Two (2) sets of detailed hardcopy technical manuals (viz. User and maintenance, all standard Schematics, part list, software maintenance, diagnostic manuals etc.) in ENGLISH only, should be provided for all the vendors items. However, for all the third party or bought out items the bidders have to provide all pertaining documents, manuals etc mentioned above as provided by the OEM.

12.4.2 Additionally, two (2) set for vendor items mentioned above in item 15.1 should be provided on CD/USB media. For third party or bought out items whatever is available on CD/USB media should be provided.

12.4.3 Technical literature/brochure in respect of the offered equipment should be enclosed to evidence that the quoted equipment meets the desired specifications. The referred/ relevant portion of the literature/ brochure should be properly numbered and underlined/highlighted for verification against each and every technical specification clause.

- 12.4.4 The corresponding page number of the literature/brochure so underlined/highlighted should be Indicated in column five (05) of the checklist against the relevant clauses of the specifications.
- 12.4.5 Only if any parameter is either not mentioned in the literature/brochure enclosed with the bid , or mentioned in such a way that the particular parameter of the technical specification cannot be explicitly and unambiguously verified against OIL specification requirements, a specific certificate shall be enclosed by the bidder confirming full compliance of the clause & page number where the specific certificate is enclosed should be indicated in column five(05) of the check list against the relevant clause of the specification.

****End of Section ID****

SECTION - IE

TRUCK MOUNTED RECORDER CABIN

SUPPLY OF BRAND-NEW TRUCK MOUNTED SEISMIC SURVEY MOBILE RECORDER VAN AS PER SPECIFICATIONS, FITMENT AND ACCESSORIES ETC. DETAILED HEREUNDER:

13.0 The bidder shall take special care in selecting, designing, fabricating the Truck mounted Mobile Recorder cabin to be used for seismic survey operations considering the unit's application in typical oilfield roads. The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories, safety features etc. and shall be built completely in all respects without requiring any further fitment/modification in the Recorder cabin on delivery to Oil India Limited by the supplier.

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.

13.1 The following equipment shall be mounted on the Truck:

(a) **Third Generating set as per section IC, Item No. 10 (iii):** This Genset shall power the Central Recording Unit and peripherals housed within the Recorder Cabin. This Genset shall be mounted on a sliding type tray with provision for being locked into position. The Genset shall be operated in its locked position on the Truck chassis during seismic data collection and other operations. During maintenance and top-up of consumables only, the Generating Set shall be slide out using the sliding tray mechanism. 02 (two) nos. Suitable manual screw type jack legs shall be provided on the sliding tray unit for providing support to the slid-out tray with Genset.

(b) Recorder Cabin as detailed in Section – IE, Item No. 13.4 below:

13.2 Overall dimensions & weight of complete unit:

Overall Length	: Within 10500 mm.
Overall Width	: Within 2600 mm
Overall Height from ground level	: Within 4500 mm
Overall weight i.e. Total Mass	: The total weight (mass) of the complete unit must be within the permissible GVWR of the offered vehicle.

13.3 **RECORDER CABIN: One (1)**

13.3.1 The whole system i.e., Central Recording Unit and peripherals should be installed in a suitable, sturdy, and field worthy air-conditioned cabin to be powered by external generating set [Section – IC, item 10.0 (iii)] to operate all the equipment. The recording cabin shall be Indian make and the mounting of the Recorder Cabin on the Truck chassis shall be done in India.

13.3.2 The cabin should be fitted with all fittings, accessories, safety features etc. in all respects without requiring any further fitment/modification on delivery to Oil India Limited by the supplier (i.e., successful bidder). All fittings, accessories and materials used for fabrication and mounting of the Recorder cabin shall be brand new, unused and of recent manufacture equipment/items and free from manufacturing defect. The Recorder cabin shall meet the following specifications.

Dimensions	Length (Inside): 3.25 meter (+ 2%) Width (Inside): 2.10 meter (+ 2%) Internal Height: 2.30 meter (+ 2%)
Longitudinal Runners (Chassis sub-frame)	All steel structure.
Cross members	All steel structure.

Body Frame Structure	All welded galvanized steel/iron structure. Structure to be painted with high rich Zinc primer.
Exterior Panelling	Galvanized steel/iron panel of adequate thickness.
Colour- Exterior	All steel components used in the fabrication should be pre-treated and applied with metal primer. Final colour should be "White" desirably Polyurethane (PU) paint.
Interior (Sides, Roof) Panelling	Galvanised iron PVC coated panel of adequate thickness, desired colour White/Otis grey.
Flooring	Minimum 5mm MS Chequered plate. The entire flooring should be covered completely with anti-skid aluminium chequered plate.
Insulation (Roof & Body)	Thermocole, Fire Retardant (FR) grade and Water/Moisture Resistant.
Table	Wall mounted table "L- shaped" along the length & width of the Recorder cabin shall be provided. The frames of the table shall be attached with the structure of the recorder cabin.
Lockers	Wall mounted locker - 02 Nos. shall be provided inside Recorder Cabin.
Door	<p>01(one) number of lockable metallic "Single-Swing Door" to be placed at rear end of the Recorder cabin at a distance of not less than 250 mm (approx.) from both sides & top for proper strengthening of the door/cabin.</p> <p>Door opening width: 76 cm (+ 2%). Door opening height: 198 cm (+ 2%)</p> <p>One number of circular peeping toughened glass fixed window of diameter 120 mm shall be provided towards top of the door to view from inside of the Recorder cabin to outside.</p> <p>Grab handle, suitable sealing arrangement to avoid entering dust, rainwater, wind etc. to be provided.</p>
Lamp	<p>Minimum 04 Nos. side wall mounted LED Lamps shall be provided inside Recorder cabin to be powered by external generating set.</p> <p>Minimum 02 No. roof mounted LED Lamp shall be provided inside Recorder cabin to be powered by external generating set.</p>
Deck Area	Full platform width deck area of length not less than 1m is to be provided at the rearmost i.e., in front of the Recorder cabin door. Rust proof metallic railings with handrail and vertical/horizontal baluster desirably of rust proof Aluminium/Steel are to be provided along the side of the deck area.
Input Cables from Line	The cabin should have seismic input panels, with good thermal insulation, on one side for connecting seismic cables and earthing wires.
Power socket panel	Power socket panel provision in the Recorder Cabin to power the Recorder cabin electrical items from external Generating set.
Air conditioner	<p>Two number of 1TR Split Air Conditioners shall be provided for cabin and shall be capable of maintaining cabin temperature below 20°C. Ambient temperature is from 10°C to 45 °C with humidity up to 80%, non-condensing. The power supply shall be 230V.</p> <p>The AC indoor unit shall have provision of proper fastening to prevent it from falling during transportation from location to location. The Air Conditioners are to be mounted at convenient locations of Cabin. The indoor units of the Air Conditioners are to be mounted with metallic frame fixed with the body structure of the Cabin. The outdoor unit should be securely mounted to prevent any movement or vibrations during travel. Use of appropriate brackets or mounts to ensure stability. The outdoor unit should be shielded from direct exposure to rain, dust, and other environmental elements. A protective cover or housing shall be installed that allows for airflow while keeping the unit safe from the weather. A suitable water drain line shall be fitted, if required. The air conditioners are to be powered by the supplied generating set. Compressor shall be of inverter type. Power for each AC shall be from</p>

	<p>20 Amps metal clad wall sockets.</p> <p>Following points are to be considered for the AC units:</p> <p>Make:Voltas/LG/BlueStar/Carrier/Lloyd/Samsung/Haier/Hitachi/Daikin.</p> <p>BEE rating: 5 star rated (with current year validity).</p> <p>The machine shall be warranted for 1 year and compressor shall be guaranteed for 5 years. Duly signed warrantee / Guarantee certificate shall be submitted at the time of delivery.</p> <p>Control: Through remote</p> <p>Safety of all the electronic equipment installed in the cabin should be ensured by taking adequate precautions in the cabin design, AC fitting etc. so as to prevent moisture, water, etc. from entering into the cabin either from AC trays or from rains.</p>
Power Socket provision	<p>The following are the minimum Power Socket provision:</p> <p>220VAC: 04 Nos. (To be powered by external generating set)</p> <p>Additional switch board with socket: 04 Nos Additions power extensions boards from UPS to computers/printers/ NAS etc: 05 Nos</p> <p>Two 02 Nos of dipole antenna for field communication to be fitted.</p> <p>Fire extinguisher mounting inside Recorder cabin at convenient locations to be fitted.</p> <p>Complete electric wirings, fittings, accessories etc. to power the Recorder cabin electrical items from external Generating set to be fitted.</p> <p>Complete electric wirings, fittings, accessories etc. to power the lamps inside Recorder cabin and Flood light from external Generating set to be fitted.</p> <p>Foldable ladder with antiskid surface at Rear to be fitted.</p> <p>Suitable damper/shock absorbers, if required to arrest vibration of cabin as per design to be fitted.</p> <p>All steel components used in the fabrication should be pre-treated and applied desirably with zinc rich primer.</p> <p>Side, Top, Repeater marker lights to be powered by vehicle battery.</p> <p>Retro reflective tape as per Motor Vehicle Act/Rules of India to be fitted.</p> <p>Minimum one number Flood Light near the Door of Recorder to be powered by external generating set to be fitted.</p> <p>The inscription "OIL INDIA LIMITED, A GOVERNMENT OF INDIA ENTERPRISE, DULIAJAN, ASSAM-786602" with "OIL LOGO" & "PURCHASE ORDER NUMBER" shall be painted prominently on the body of Recorder cabin. (Logo/specification shall be provided by Oil India Limited after placement of order)</p> <p>The Recorder Cabin, its fittings/accessories and deck area must be within the original chassis of the vehicle supplied by the vehicle manufacturer. Extension of the original chassis by welding/bolting or by any other means to accommodate the Recorder Cabin, its fittings/accessories and deck area is not acceptable.</p> <p>Door, window and latches etc. shall not allow to ingress of rainwater/dust inside the Recorder cabin when in the closed position. Recorder cabin is to be shower tested and necessary test report is to be submitted.</p>
Antenna Mast	Two Nos (02) of minimum 50 feet VHF antenna (Telescopic) mast should be fitted for communication in the field operations.

Credential of body builder	<p>The entire design, fabrication and mounting etc. shall be done by any of reputed body builder approved by Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc.</p> <p>Details of body builder with valid certification from Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc. is to be submitted along with technical bid by the bidder</p>
Drawing	<p>Detailed dimensional drawing (Plan, Elevation, Side views) of the complete unit (Truck Mounted Recorder Cabin) along with detailed mounting & material construction of the Recorder cabin structure, exterior panelling, interior panelling, flooring etc. from the body builder should be submitted along with the technical bid by the bidder(s).</p> <p>Also, the prospective supplier (successful bidder) shall have to submit final detailed dimensional drawings along with detailed mounting and material construction of Recorder cabin from the body builder within 30(thirty) days from the date of OIL's purchase order before manufacturing & fabrication of the Recorder cabin. The same should be prepared based on order specification & OIL's requirement.</p>

13.4 TRUCK for Recorder Cabin and Third Generating Set: One (1) no.

13.4.1 The truck should accommodate the recorder cabin (Section – IE, item 13.1), one no. of mounted generating set [Section – IC, item 10(iii)]. The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories; safety features etc. and shall be built completely in all respects without requiring any further fitment/modification on delivery to Oil India Limited by the supplier (i.e., successful bidder).

13.4.2 Mounting of the recorder cabin and generating set on the truck chassis is responsibility of the supplier.

13.4.3 The truck shall have the following specifications:

1	Month & Year of manufacture; Make	<p>Brand new Truck chassis model with Driver Cabin & load body of any vehicle manufacturer of India, procured after the date of issuance of Purchase Order (PO) /Letter of Intent (LOI)/ Letter of Award (LOA) and meeting the specifications as mentioned in the Tender / Purchase Order.</p> <p>The bidder shall mention the make & model of the offered Truck chassis in technical bid including all other requisite specifications.</p>
2	GVW	Not less than 11000 kg.
3	Wheelbase	<p>In the range of 4200 mm to 6800 mm.</p> <p>The wheelbase is the horizontal distance between the centres of the front axle and rear axle wheels.</p>
4	Overall dimensions	As mentioned in Clause 13.3 above
5	Engine	<p>Water cooled Diesel fuel engine of adequate power and torque.</p> <p>Air cooled engine is not acceptable.</p>
6	Emission Norms	<p>Bharat Stage – VI (BS VI) OBD Stage II. Shall also comply Real Drive Emissions (RDE) using Portable Emissions Measurement System (PEMS) requirements.</p> <p>The bidder shall mention the emission norms of the offered vehicle in the technical bid.</p>
7	Steering	<p>Power assisted and Right-Hand Steering (i.e., Steering wheel shall be on the right-hand side inside the Driver's cabin when viewed from the rear of the vehicle).</p> <p>Unit with left hand steering is not acceptable.</p>

8	Gearbox	Minimum 5 forward speed & 1 reverse speed.
9	Brake	Air or Hydraulic power assisted foot operated Brake with Antilock Braking System and suitable hand operated Parking Brake.
10	Drive	4 x 2 Drive, Rear Axle Drive.
11	Axles	Front – 1 No., Rear – 1 No. (Drive axle).
12	Suspension (Front and Rear)	As per the Truck manufacturer.
13	Wheels & Tyres	<p>Front- Total 02 Nos. Rear – Total 04 Nos. [Dual (i.e., 02 Nos.) wheels in each side of rear axle, Single wheel on each side of rear axle is not acceptable]</p> <p>Spare – Spare – To be supplied.</p> <p>It shall be bidder's endeavour to offer front and rear wheels of same size & type. If not possible for design constraint, two spare wheels - one for each type shall be supplied. Suitable lifting & mounting arrangement facility for spare wheel(s) shall be provided. Super Single tyre is not acceptable.</p>
14	Fuel Tank & Diesel Exhaust Fluid (DEF) Tank	As per vehicle manufacturer.
15	Speed Limiting Device (SLD)	To be provided with valid certification as per Indian Motor Vehicle Rules as applicable in the state of Assam (India).
16	Vehicle Tracking System (VTS)/GPS:	To be provided with valid certification as per Indian Motor Vehicle Act/Rules as applicable in the state of Assam (India).
17	Fitments & accessories:	<p>Following fitments & accessories shall be fitted in each vehicle:</p> <ol style="list-style-type: none"> a. All standard fittings, accessories, standard gauges, and meters as per Indian Motor Vehicle Act/Rules shall be fitted. The Speedometer & the Odometer shall be with Metric KM calibration system only. b. Rear view mirrors at both sides of the driver's cabin, horn, driver cabin lamps, head lamps, parking lamps, tail lamps, direction indicator lamps, stop lamps, fog lamps, windscreen wipers, first aid box, floor mats, footsteps, grab rail, mud flaps/guards, fire extinguisher etc. shall be fitted in the vehicle. c. 01 (one) number spare wheel assembly shall be supplied in the vehicle. d. Suitable towing provision / attachment at Front and Rear of vehicle. e. 01 set of Jack with Handle and Wheel Wrench with Lever shall be supplied along with the 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 the vehicle. f. Suitable electrical Master Switch to disengage all electrical circuits from battery, Well-covered Battery Box shall be fitted in each unit. g. Wherever feasible, Bumpers, side under run protection device (SUPD)s, rear under run protection device (RUPD), front under run protection device (FUPD) are to be fitted. h. To fix retro reflective on the front, rear and both side of the complete unit as per the colour code- Front: White, Rear:

		<p>Red and Sides: Yellow.</p> <p>i. Audible alarm to sound while the vehicle is put in reverse gear.</p> <p>j. Suitable Spark Arrestor in the engine exhaust. The Spark Arrestor may be additional attachment to be fitted with the exhaust or chassis inbuilt mechanism.</p>
18	Driver's cabin	<p>Originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle, complete with all standard fittings and accessories without requiring any subsequent fabrication job in it.</p> <p>Seating capacity minimum 02 (two) Nos. including Driver and containing Driver's seat, Co-passenger's seat, steering wheel, all controls, instruments, and other devices necessary for driving or operating the vehicle.</p> <p>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.</p>
19	Load body and platform	<p>Steel platform, originally built & supplied along with the vehicle by the vehicle chassis manufacturer of the offered vehicle.</p> <p>High side deck or Hood in the load body is not acceptable.</p> <p><i>Note: While selecting the vehicle, bidder to note that the load body accommodates the Recorder cabin & third Generating Set offered by the bidder as specified elsewhere in the tender.</i></p>
20.	Notes	<p>(a) In case any of spares, fittings/accessories etc. as mentioned in the tender does not come along with the vehicle as standard spares, fittings/accessories from the vehicle manufacturer, the supplier shall procure the same and fit the same prior to delivery of the vehicle without any extra cost to Oil India Limited.</p> <p>(b) Suitable Gap as per standard between the Truck driver's cabin and the Generating Set with enclosure shall be provided.</p> <p>(c) Suitable Gap as per standard between Generating Set with enclosure and Recorder Cabin shall be provided.</p>
21	Drawing	<p>In addition to submission of technical brochure/leaflet of the offered Truck, the bidder shall also submit the following along with the technical bid:</p> <p>(i) Mounting details of the Recorder cabin and Third Generating Set from the reputed workshop/fabricator etc.</p> <p>(ii) Dimensions (length, width & height) & weight of the Recorder cabin & Generating Set.</p> <p>Also, the prospective supplier shall have to submit final detailed dimensional drawings along with detailed mounting and material construction from the fabricator within 30 (thirty) days from the date of OIL's purchase order before mounting the generating set etc. on factory built (i.e., originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle) load body. The same should be prepared based on order specification & OIL's requirement.</p>

22	Documents/literatures to be submitted along with the supply:	<p>The following documents/literatures shall be submitted for each vehicle along with the supply by the supplier and cost in this regard, if any, shall be borne by the supplier:</p> <p>Invoice(s) in original.</p> <p>Notwithstanding any clause mentioned elsewhere in the NIT/tender, the invoice(s) for the complete unit shall be submitted in 03 (three) parts as under for registration purpose:</p> <ol style="list-style-type: none"> a) Invoice for the Truck chassis with Driver's cabin. b) Invoice for the Recorder cabin: It shall include the cost of fabrication, mounting, etc. of the Recorder cabin. c) Invoice for entire onboard equipment / machineries and any other items/accessories etc. permanently mounted on the Truck & its cost of mounting on Truck. <p>Note: <i>Vehicle Chassis Number & Engine Number shall be mentioned in invoice(s) against above Sl. No. (a), (b) & (c).</i></p> <p>Sale Certificate, Emission Certificate, Initial Road Worthiness Certificate in Form 21, 22 & 22(A) Part-I & Part-II, Temporary Registration Certificate as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India; 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).</p> <p>Any supporting document(s) required from Oil India Limited (OIL) for issuance of aforementioned documents shall be provided by OIL. The place, code of the permanent registration shall be intimated in the nearer time in the event of the order.</p> <p>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.</p> <p>Any manuals/documents etc. supplied by the vehicle manufacturer.</p> <p>Note: <i>Truck shall be procured by the supplier (i.e., successful bidder) 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 (i.e., successful bidder) shall obtain the Invoice etc. from the vehicle dealer/manufacturer accordingly.</i></p>
23	Delivery	<p>(a) The fully built complete unit (Truck mounted Recorder Cabin) along with all documents etc. are to be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) without any defect by the supplier at their risk and cost as per the delivery period mentioned elsewhere in the tender document.</p> <p>OIL reserves the right to inspect, test and if necessary, reject any part/parts after arrival of the vehicles at Duliajan, Assam-786602 (India), if the said rejection is attributed to be the responsibility of the supplier. It shall, in no way be limited or waived by the reason that the units have been inspected, tested, and passed by OIL prior to dispatch.</p>

		<p>(b) Temporary Registration Certificate shall be arranged & supplied by the supplier (i.e., successful bidder) 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 complete unit.</p> <p>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.</p>
		<p>(c) The supplier (i.e., successful bidder) 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.</p>
24	VAHAN portal database, Permanent Registration & High Security Registration Plate (HSRP) Kit:	<p>The bidder/ supplier (i.e., successful bidder) 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). Cost of permanent registration shall be borne by Oil India Limited. On receipt of the government registration number, Oil India Limited shall inform the government registration number to the bidder/ supplier (i.e., successful bidder). The supplier (i.e., successful bidder) 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 (i.e., successful bidder).</p>

13.4.4 **Workmanship:**

The workmanship and fabrication/mounting, finishing etc. should be of highest standard. The materials, fittings, accessories, tools etc. supplied/fitted shall be new, of recent make, best quality. Workmanship should be of good quality and appearance. Following is a partial list of examples:

- (a) Flame cut edges shall be ground smooth. Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth.
- (b) Flame cut edges shall be ground smooth. Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth.
- (c) Bolt holes shall be drilled (not torch cut).
- (d) Welds shall be of good quality and of sufficient strength.
- (e) Use self-locking nuts.
- (f) All electrical wirings will be well supported with support type clamps & conduit wherever required.

- (g) 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.

13.4.5 **Inspection:** The prospective supplier will facilitate inspection to OIL's Engineers/ representative as under:

Stage -1: After purchase of 03 (three nos.) vehicle chassis as under but prior to any fabrication job:

- (i) Truck chassis for mounting of Data Harvesting & Charging Cabin.
- (ii) Utility Vehicle Chassis for mounting of Fourth Generating Set.
- (iii) Truck chassis for mounting of Recorder Cabin & third Generating Set.
 - a) Chassis Identification & physical verification of chassis No., engine No. etc.
 - b) Verification of all documents related to chassis procurement.
 - c) Physical Identification of Components / sub-assemblies identification, before fabrication.
 - d) Verification of all manufacturer's/ fabricator's documents including documents of imported items.
 - e) Positioning of various components on respective vehicle chassis

Stage -2: Pre-dispatch inspection.

At least 45 days advance intimation should be provided to plan the visit of OIL's inspections.

The inspection process will include at least the following steps/tasks:

- a) Physical verification of all items, fittings, accessories, tools etc. as per purchase order & documentations.
- b) Operational testing of the vehicles. Driver(s), all consumables & any other requirements for the purpose of testing during the inspection shall have to be arranged & provided by the supplier at their cost.
- c) Suggestion of any minor modification for operational requirement, as required, the supplier shall have to comply with the same without any extra charge to Oil India Limited.
- d) The inspection report would be prepared jointly and signed by OIL's Engineers/ representative and the supplier at the end of the inspection process.
- e) Supplier shall confirm in writing compliance of all the points raised in the inspection report as well as any other subsequent addition/deletion following deliberation with the inspection team after arrival in Duliajan, Assam.
- f) To & fro fares and boarding/lodging expenses etc. of OIL's inspection team will be borne by OIL. However, supplier's expenses etc., if any, in this regard, shall be borne by the supplier.

13.4.6 **Delivery:**

- a) The fully built brand new Truck Mounted Seismic Exploratory Mobile Recorder Van and the Truck with Dual Crew Cab mounted with the Generating Set along with all automobile tools, fittings & accessories, documents etc. are to be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) without any defect by the supplier at their risk and cost.
- b) OIL reserves the right to inspect, test and if necessary, reject any part/parts after arrival of the vehicles at Duliajan, Assam-786602 (India), if the said rejection is attributed to be the responsibility of the supplier. It shall, in no way be limited or waived by the reason that the units have been inspected, tested, and passed by OIL prior to dispatch.

13.4.7 **Invoicing:** Notwithstanding any clause mentioned elsewhere in the Tender, the invoice for the complete unit shall be submitted in 2(two) parts separately as under: -

- **Invoice for truck chassis and cabins:** It shall include the cost of truck chassis with Driver's Cabin and Rear Instrument Cabin only.

- **Invoice for other instruments & components:** It shall include cost of all other equipment/ components mounted on the truck as well as supplied separately, if any, as part of the complete offer.

13.4.8 **Warranty/Guarantee:** Notwithstanding any Guaranty/Warranty clause(s) mentioned elsewhere in the tender, the truck unit shall be under guarantee/warranty by the bidder for min. period of 1 (one) year from the date of successful commissioning of the complete unit at site.

****End of Section IE****

SECTION - IF

SPARES AND REPAIR KIT

14.0 SPARE KIT FOR CENTRAL RECORDING UNIT (CRU) AND PERIPHERALS

- 14.1 Spare kit for onsite repair for the CRU including the man-machine interface should include one complete set of spare boards / PCB's used in the data acquisition module of the CRU, man-machine interface, (or the complete module in lieu thereof)
- 14.2 One complete set of interconnecting cables used for interconnecting various modules in the CRU, viz. CRU to workstation/PC/Operator console to various peripherals (like Printer, External Storage System etc.) to QC systems and other power cables.
- 14.3 Complete list of spares to be supplied, against Section – IF, clause 14.0, along with individual price should be attached separately. **Cost of the spares to be supplied along with the equipment should be included in the quoted price of the equipment. However, the individual price of the spares shall be provided as per the note below.**

NOTE FOR SUBMISSION OF SPARE PRICE LIST:

*The price of individual spares shall be provided separately as **pdf. document** under “Financial Documents” while submitting the Price Bids in GeM Portal. **Please note that NO PRICE should be mentioned in the TECHNICAL BID.***

- 14.4 Fiber Optical Maintenance and Tool Kit with associated consumables for splice – 50 Nos. of splices.
- 14.5 Complete Tool Kit with carrying case, meters etc. for field units - Two set.
- 14.6 All types of connectors (viz. geophone takeouts, adapters, etc.) used in the spread which includes all the field units/links of 1 set each (i.e.: 1set each means at least 15% of connectors used in spread of 12000 nos. of channels for each category, rounded to the next higher whole number).

****End of Section IF****

SECTION – IG

PDI, I&C & TRAINING

15.0 Pre-dispatch/shipment inspection

- 15.1 Three OIL personnel will visit the vendor's site for a maximum duration of ten working days for carrying out item wise physical inspection of imported items as per specification of the system, channel capacity of the equipment, checking of spares, peripherals, manuals, catalogues, software, and other documents before the dispatch of the consignment. For the Indian make items the inspection will be done in India.
- 15.2 The bidder/supplier should intimate the date of inspection to OIL atleast **forty-five (45) days advance** to complete the necessary internal formalities for OIL's personnel to visit the vendor site. Cost of traveling, boarding, and lodging of OIL's personnel will be borne by OIL.

16.0 Installation & Commissioning

- 16.1 The bidder should undertake to completely assemble the system including shock proof, mounting of the same in cabin on the truck along with integration of different peripherals/items such as printers, tape drives, external storage systems, power supplies generator etc. so that the system becomes ready for deployment in the field after commissioning.
- 16.2 The bidder should undertake to completely assemble the Data harvesting and Charging device including shock mounting of the same in cabin on the suitable trailer vehicle with provision of Driver's cabin along with integration of different peripherals/items such as printers, LTO drives, external storage systems, power supplies generator etc. so that the system becomes ready for deployment in the field after commissioning.
- 16.3 The system will be installed and commissioned by the supplier at Oil India Ltd. specified location in Duliajan, Assam only. Charges if any should be quoted in the enclosed price schedule.
- 16.4 The commissioning engineers should be available at site within **45 days** of the intimation given by OIL for commissioning the equipment and the commissioning should be completed **within 28 days**.
- 16.5 The following points are to verify at the consignee's premises jointly by the representative of the bidder & OIL's representative(s):
- Quantity & Physical condition of each of the modules/items supplied.
 - Cabin & Generator including condition of fittings.
 - Manuals, Catalogues
 - Software media and manuals
 - Necessary Test /Warranty/ Guarantee Certificates
 - Any other details as per complete system specifications.
- 16.6 The commissioning of the equipment (other than **Section – IG** item 16.5) includes physical, testing/checking of all the equipment & delivered spares.
- 16.7 Comprehensive Acceptance tests as per the acceptance protocol are to be carried out during the commissioning of each item of the system including all accessories & peripherals by the representative(s) of the supplier in fully working condition after duly interfacing all the supplied items in the presence of OIL's representatives within a month followed by documentation and joint certification of the test results. The all-acceptance tests will be carried out in OIL's operational area. An installation and commissioning certificate duly signed by the authorized representatives of the OIL shall be issued certifying that the fully integrated system is functioning satisfactorily as per the supply order.
- 16.8 At least one of the engineers is required at commissioning site for additional four weeks after the system is commissioned successfully, to ensure smooth deployment and functioning in the field for trouble free operation.

17.0 TRAINING

- 17.1 In order to ensure optimal utilization of new technology and efficient in-house maintenance of the sophisticated system training has to be imparted to OIL's personal. The charges for training if any should be included in the price schedule.
- 17.2 Equipment operation user Training should include User Operation, Hardware maintenance, spread QC tools, standard instrument tests, troubleshooting, shooting system, harvesting unit, advanced capabilities of system etc. for the seismic data acquisition system. Hardware maintenance training should include central controlling /recording unit, ground electronics, data harvester and peripherals such as Radio blasting system, workstation, GPS Test & Maintenance Equipment etc. The training should also be imparted on software applications viz. updating patches, OS & software loading etc. **The complete training has to be imparted to Eight (8) numbers of Geophysicists and should be of minimum 21 working days duration.** The training charges should be included in the quote.
- 17.3 The details of the training should be enclosed along with the offer.
- 17.4 The travel and living expenses of OIL personnels for the training organized at suppliers work site/factory will be borne by OIL.

****End of Section IG****

SECTION – IH

PRODUCT SUPPORT

18.0 PRODUCT SUPPORT (HARDWARE):

- 18.1.1 Future support for service, supply of spare & consumable parts of the vendors items should be for minimum 7 (seven) years from the date of commissioning about service, spares, and consumables. However, for bought out items other than those covered under AMC, the bidder has to provide minimum one (1) year support from the date of installation & commissioning. Certificate to these effects should be enclosed with the bid document.
- 18.1.2 Any hardware/software modification required for removal of bugs, if any, should be provided during the warranty period and beyond till the full life cycle of the seismic data acquisition system at no additional cost to OIL.

18.2 PRODUCT SUPPORT (SOFTWARE)

- 18.2.1 The Operating software and the application software need to be supplied with perpetual license (full lifetime license minimum of 20 years). Third party software, if any, should also be supplied with perpetual license. In this regard, for the said span of 20 years, bidder shall support the license with free of cost, and during this 20 years period if the software needs to be installed on new hardware in event of any hardware failure, the bidder shall install the software on the supplied new hardware with free of cost at Duliajan. However, the necessary new hardware will be provided by OIL.
- 18.2.2 Any software upgrades if released within the warranty period would be provided at no Additional cost to OIL.
- 18.2.3 Software patches for general improvement in the function of the system and also for the removal of the bugs if any, during the warranty period and beyond till the full life cycle (full usage time) of the system shall be supplied by the supplier at no additional cost to OIL.
- 18.2.4 Information about revision/up-gradation should be provided by the bidder from time to time at no cost to OIL.
- 18.2.5 Password/license operating keys corresponding to Host IDs of various intelligent devices, workstations, PCB's, plotters, printers, devices etc. requiring licenses or authorization or password integrated/ to be integrated into the system should be provided for smooth utilization/maintenance during the life cycle of the equipment. This will include the supplied/ to be supplied spares also.

19.0 WARRANTY:

- 19.1 All the equipment including third party items shall have to be covered by a warranty for 12 months after successful commissioning at site.
- 19.2 Warranty should also include supply of all the software upgrades with necessary additional; hardware, if any, free of cost.
- 19.3 In case of any defect (as per the general terms & conditions under warranty clause), during warranty, the supplier shall arrange to replace/repair the defective part at his own cost at users' site.
- 19.4 In case of problem (either hardware or software related) in central controlling /recording unit and its peripherals, standalone workstations, data harvesting devices & other peripherals etc, the supplier shall send his engineer along with relevant spares to rectify the problem at site within 120 hours. The necessary travel and boarding expenses of the service engineer will be borne by the supplier. The system shall have to be repaired within a period of ten days from the time it is reported.
- 19.5 In case of supplier's failure to repair as per clause 19.4 above a penalty on pro-data basis shall be levied @ 0.5 % per week upto the maximum of 7.5% cost of the equipment which will be paid by the supplier within 30 days. If the supplier fails to pay the penalty, the same shall be recovered from Bank Guarantee.

- 19.6 In case of problem in the supplied items including ground electronics, HF sets, VHF sets, battery charger, portable handheld testers, recorder cabin and truck etc. The supplier has to replace/repair all the defective part within one month from date of reporting, failing which the penalty on pro-data basis shall be levied @ 0.5 % per week upto maximum of 7.5% cost of the equipment which will be paid by the supplier within 30 days. If the supplier fails to pay the penalty, the same shall be recovered from Bank Guarantee.
- 19.7 For warranty services, OIL will liaise only with a single point of contact of the bidder. The bidder has to mention the contact address, phone number of the contact person who will be responsible for warranty support.
- 20.0 ANNUAL MAINTENANCE AND SUPPORT CONTRACT**
- 20.1 AMC will start after successful completion of warranty period.
- 20.2 **The bidder has to quote for six years of comprehensive AMC for items supplied against this tender as given in Annexure – (IH) 1.** Unless explicitly mentioned all the items required to be covered under the AMC are those as listed in Annexure – (IH) 1.
- 20.3 The bidder has to quote the total AMC charges per year separately for six years after expiry of one year warranty period. AMC charges will be paid quarterly after successful completion of the AMC services for that period. Any penalty amount on the bidder will be adjusted from that AMC charge.
- 20.4 The AMC will include Preventive as well as corrective maintenance.
- 20.5 The charges quoted against AMC for Six (6) years will be considered for commercial evaluation.
- 20.6 **The supplier has to identify the critical spares required for stocking and the same has to be mentioned in their quote. The successful bidder has to stock critical spares as identified to minimize downtime of all the equipment's supplied.**
- 20.7 The supplier will depute one of their trained/OEM certified maintenance engineers on as and when required basis to Duliajan during 6 years AMC period. The engineer should be qualified and should have minimum 2(two) years' experience with similar systems.
- 20.8 The supplier at his own cost shall arrange the clearance of the spare parts, equipment etc. from customs and port authorities in India (in case of import) and shall pay all requisite duties including customs duty, demurrages, if any, clearance fee/ charges, inland transport charges etc.
- 20.9 The supplier shall arrange accommodation and local transportation for their maintenance engineers during stay at Duliajan, Assam, India – 786602 at their own cost.
- 20.10 During the AMC period routine maintenance, repairing/replacement of all the supplied equipment should be done twice as required by OIL and the bidder's engineer(s) must visit Duliajan/Operational site twice in the year for a period of minimum four (4) working days. All the repairing, maintenance, should be OEM certified.
- 20.11 No cannibalization of any system will be permitted for carrying out maintenance services.
- 20.12 The supplier will have to follow the preventive maintenance schedule of each equipment supplied, during the AMC period.
- 20.13 Any tools and equipment needed for carrying out the jobs under AMC has to be provided by the supplier. However, OIL will provide help with tools available with them.
- 20.14 In case the contractor fails to repair any equipment supplied by them during the AMC period, within 120 hours from the time of reporting the breakdown, a penalty of 0.5% of yearly AMC charges for each day of delay will be levied subject to a maximum amount of 7.5 % of AMC charges within a calendar year. If for any reason, the bidder fails to repair the equipment within eleven successive days from the date of reporting, the period of AMC will be extended by the said period at no extra cost in addition to the above penalty.

- 20.15 For AMC services, OIL will liaise only with a single point of contact of the bidder. The bidder has to mention the contact address, phone number of the contact person who will be responsible for AMC support.
- 20.16 In case of any system integration problem during the AMC period, it will be the responsibility of the supplier to rectify the same.
- 20.17 The AMC should include supply and installation of all the software upgrades with necessary additional hardware, if any, free of cost at the earliest.
- 20.18 In case of any breakdown during AMC period, the supplier shall arrange to replace/repair the defective part at his own cost at user's site.
- 20.19 All the items covered under Annual Maintenance Contract (AMC) should be maintained in such a way that all the items are ready for deployment and use in the field. The item description to be covered under comprehensive AMC is mentioned below in table as an Annexure - (IH) I.

ANNEXURE – (IH) 1

SL. NO.	<u>NIT ITEM NO.</u>	<u>ITEM DESCRIPTION</u> <u>(TO BE COVERED UNDER COMPREHENSIVE AMC)</u>	<u>QTY.</u>
1	4.1	Central Controlling / Recording Unit (CRU) (Complete Hardware & software) as per NIT Section – IA , clause 4.1	02
2	4.1.7	External Storage	01
3	5.1	Data Acquisition Station Units	12000 nos.
4	5.3	Encoders	02
5	5.3	Decoders	06
6	8.3	Data Harvesting Equipment Unit (Complete Hardware & software)	01
7	13.3	LTO Drives	04
8	9.0	Battery Chargers (complete set)	01
9	11.4	Test & Measuring Equipment including Field QC tools (Complete hardware & software)	01

Note: The supplier has to identify any other critical items/spares required to be covered under AMC apart from items as listed in Annexure- (IH) I and the same has to be mentioned in their quote. The bidder must quote the total AMC charges accordingly.

****End of Section IH****

ANNEXURE – IA

PRE-BID CONFERENCE

1.0 Pre-Bid Conference is scheduled to be held at **OIL INDIA LIMITED, DULIAJAN, ASSAM 786602** tentatively on **02.08.2024** to explain the requirements of OIL in details to the interested prospective Bidders and to understand bidder's perspective including exchange of views/clarifications, if any, on the Scope of Work, Bid Rejection/Bid Evaluation Criteria and other terms & conditions of the Tender.

2.0 Bidders interested to attend the pre-bid conference as above must send their confirmation to: **Mr. M. B. Singha, DGM - Materials (FD), Oil India Limited, P.O. Duliajan-786602, ASSAM, E-mail: bikramjit_singha@oilindia.in** at least **2 (Two) days** prior to the date of pre-bid conference.

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

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

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

5.0 **Summary:**

Pre-Bid Queries/ Clarifications	To submit through e-mail addressed to bikramjit_singha@oilIndia.in
Last date Pre-Bid Queries/ Clarifications e for receipt of	31.07.2024
Date of Pre-bid Conference	02.08.2024 (Tentative)
Venue	OIL INDIA LIMITED, DULIAJAN, ASSAM 786602
Last date for receipt of Pre-bid participation confirmation	31.07.2024
Time of Pre-bid Conference	09.00 Hours (IST)

ANNEXURE - II

BID REJECTION CRITERIA (BEC/BRC)

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

A.1 TECHNICAL:

1.0 BIDDER'S ELIGIBILITY:

1.1 **The bidder should be an Original Equipment Manufacturer (OEM) of the tendered item (cable less seismic data acquisition system).**

OR

1.2 **The bidder should be an authorized dealer/authorized distributor/authorized supplier/wholly owned subsidiary of an Original Equipment Manufacturer (OEM) of the tendered item (cable less seismic data acquisition system).**

2.0 IN CASE THE BIDDER IS AN ORIGINAL EQUIPMENT MANUFACTURER (OEM):

The bidder must comply to the following:

2.1 The bidder (OEM) should have at least 5 (five) years of manufacturing experience of **cable less seismic data acquisition system** preceding the original Bid Closing date of the tender.

2.2 In addition to above, the bidder (OEM) should have supply experience of successfully executing at least 01 (one) such latest state of the art systems with minimum 6000 channels to various clients (*other than their own subsidiaries/sister concerns*), either directly by them or through their authorized dealers/distributor/supplier/subsidiaries, during last 5 (five) years preceding the original bid closing date of the tender.

2.3 Documentary evidence to substantiate supply records must be submitted in the form of copies of relevant Purchase Order(s) and any one of the following documents evidencing satisfactory execution of those Purchase Order(s), such as:

- (i) Satisfactory supply / completion / installation report (OR)
- (ii) Bill of Lading, Commercial Invoice / Payment Invoice (OR)
- (iii) Consignee receipt / delivery receipt (OR)
- (iv) Central Excise Gate Pass/Tax Invoice issued under relevant rules of Central Excise/ Vat/ GST Invoice.
- (v) Any other documents which shall prove that the bidder has successfully executed such order (s).

Note:

For Clause 2.1: Declaration from OEM needs to be submitted.

For Clause 2.2: The Purchase Order date need not be within 5 (five) years preceding original bid closing date of this tender. However, the execution of supply should be within 5 (five) years preceding original bid closing date of this tender.

3.0 IN CASE, THE BIDDER IS AN AUTHORIZED DEALER/ AUTHORIZED DISTRIBUTOR / AUTHORIZED SUPPLIER/ WHOLLY OWNED SUBSIDIARY OF OEM:

The bidder must fulfil the flowing requirements:

3.1 The bidder's OEM (the principal) should have at least 5 (five) years of manufacturing experience of **cable less seismic data acquisition system** preceding the original Bid Closing date of the tender.

- 3.2 In addition to above, the bidder themselves should have supply experience of successfully executing at least 01 (one) such latest state of the art systems with minimum 6000 channels to various clients, during last 5 (five) years preceding the original bid closing date of the tender.

OR

The bidder's OEM (*for the quoted item*) should have supply experience of successfully executing, either by themselves or through their authorized agent/ dealer/ distributor/ supply house/authorized system house, at least 01 (one) such latest state of the art systems with minimum 6000 channels to various clients (*other than their own subsidiaries/sister concerns*), during last 5 (five) years preceding the original bid closing date of the tender.

- 3.3 Documentary evidence to substantiate supply records must be submitted in the form of copies of relevant Purchase Order(s) and any of the following documents evidencing satisfactory execution of those Purchase Order(s), such as:

- (i) Satisfactory supply / completion / installation report (OR)
- (ii) Bill of Lading, Commercial Invoice / Payment Invoice (OR)
- (iii) Consignee receipt/ delivery receipt (OR)
- (iv) Central Excise Gate Pass/Tax Invoice issued under relevant rules of Central Excise/ Vat/ GST Invoice.
- (v) Any other documents which shall prove that the bidder has successfully executed such order (s).

Note:

For Clause 3.1: Declaration from OEM needs to be submitted.

For Clause 3.2: The Purchase Order date need not be within 5 (five) years preceding original bid closing date of this tender. However, the execution of supply should be within 5 (five) years preceding original bid closing date of this tender.

- 3.4 The bidder shall submit valid **Authorization Certificate/Letter** issued by its Original Equipment Manufacturer (OEM), confirming the Bidder's status as their authorized supplier/dealer/distributor/wholly owned subsidiary (*as the case may be*) to sell their products with proper warranty and guarantee back -up. Such authorization certificate/ letter shall be valid for the entire period of execution of the order. Offers shall be rejected straightway, if such authority letter is not submitted along with the technical bid.

NOTES TO BIDDER:

- a. Authorization letter must be issued on the official letter head of the OEM clearly mentioning the status of Bidder i.e., whether 'authorized dealer' or 'authorized distributor' or 'authorized supplier' or wholly owned subsidiary of Original Equipment Manufacturer (OEM), failing which the bid shall not be considered for evaluation and in that case the offer shall be rejected straightway.
 - b. Authorization letter issued by the OEM in any other form such as Direct Chanel Partner /Indirect Chanel Partner/Chanel Partner/ seller/ Reseller/Sub Dealer / Sub Distributor/Sister Concern shall not be considered for bid evaluation and the offer shall be rejected.
 - c. In case the bidder is a wholly owned subsidiary company of the parent company (OEM), in addition to the authorization letter including warranty/guarantee back-up, the bidder shall also upload/ submit the documents such as board resolution/certificate of incorporation/any other legal certificate along with their offer that would establish the relation between the parent company with the subsidiary company without which the bid will not be evaluated and will be rejected straightway.
- 4.0 Bidders showing supply experience towards supply to its sister concern/ subsidiaries shall not be considered as experience for the purpose of meeting BRC.
- 5.0 Bidder/OEM must submit an undertaking along with the Technical Bid that their offered equipment is not going to become obsolete during the next 5 (five) years from the date of successful installation & Commissioning, if order is awarded on them by OIL and must guarantee uninterrupted supply of spares and availability of services for at least for ten (10) years with effect from the successful installation & Commissioning of the equipment, without which offer will not be considered for evaluation/placement of order.

6.0 DELIVERY PERIOD:

Delivery of the materials must be completed **within the 180 days** from the date of issue of Purchase order. The date of receipt of all materials at site shall be considered as the date of delivery.

The commissioning engineers should be available at site **within 45 days** of the intimation given by OIL for commissioning the equipment and the commissioning should be completed **within 28 days**.

OIL shall intimate the successful bidder for the installation & commissioning within **1(one) week** of completion of delivery of entire materials.

Bidder to confirm compliance of the above delivery schedule in their technical bid. Bidder quoting delivery period and installation & commission period more than the above shall be liable for rejection.

(A.2) BRC - FINANCIAL:

1.0 The bidder must have an annual financial turnover from Operations of minimum **INR 53,47,69,583.50** 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, self-attested/digitally signed printed published accounts are also acceptable.

b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/ State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.

- 4.0 In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date on which the Audited Balance Sheet and Profit & Loss Account is signed. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.
- 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 120 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 Security **@5%** 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 – I**) if submitted in the form of Bank Guarantee (BG). **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. **Bid Security if submitted in the form of BG/e-PBG must be valid at least for a period of 165 days from the date of original bid closing date of the tender.**

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 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 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.

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 16th June, 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.

Note: *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 **for a value in excess of Rs. 10 crores**, 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
 - c. 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) **Validity of Registration:** 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) **Undertaking regarding compliance:** 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 **Arbitration (Applicable for Suppliers/Contractors other than PSU and MSME):** 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:

1. 20% of the fees if the claimant has not submitted statement of claim.
2. 40% of the fees if the pleadings are complete.
3. 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 @5%** 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/Frinking 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. (5% 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.
 - 1.Full address of the issuing bank
 - 2.Branch Code
 - 3.Authorized signatory with full name and designation
 - 4.Phone (Mobile) Numbers of the branch
 - 5.Email address of the branch
 - 6.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
A	B	C	D	E	F	G	H	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.

****NOTE TO PARA 14.0 AND 15.0 ABOVE:**

Submission of Bid Security and Performance Security in the form of Electronic Bank Guarantee (e-BG)

Oil India Ltd. has now adopted Electronic Bank Guarantee (e-BG) for Bid Security and Performance Security in addition to the existing provisions. Electronic Bank Guarantee (e-BG) is a digitally signed BG issued by banks which is transmitted directly from banks to beneficiaries in electronic form through a platform provided by National E-Governance Services Limited (NeSL).

Submission of Bid Security/Performance Security, as applicable, in the form of Electronic Bank Guarantee (e-BG) is also acceptable:

Sl. No.	Bank name	Sl. No.	Bank name
1	AU Small Finance Bank	12	IDFC First Bank
2	Axis Bank	13	Indian Bank
3	Bank of Baroda	14	Indian Overseas Bank
4	Bank of India	15	IndusInd Bank

Sl. No.	Bank name	Sl. No.	Bank name
5	Canara Bank	16	Karur Vysya Bank
6	City Union Bank	17	Kotak Mahindra Bank
7	Federal Bank	18	Punjab National Bank
8	HDFC Bank	19	RBL Bank
9	HSBC Bank	20	State Bank of India
10	ICICI Bank	21	South Indian Bank
11	IDBI Bank	22	Yes Bank

Beneficiary details for issue of e-BG are:

Sl. No.	Particulars	Details
1	Name	Oil India Limited
2	PAN	AAACO2352C
3	Date of Incorporation	18-02-1959
4	Email ID	
5	Mobile No.	
6	Local Address	
7	Registered Address	Duliaian, Dibrugarh, Assam-786602

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 UNLOADING OF TUBULARS:

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. **THE ONLY RESPONSIBILITY OF THE CREW TO BE DEPUTED BY THE SUPPLIER IS TO FASTEN/FIX CRANE'S HOOK SLING TO BUNDLES ON THE LOADED VEHICLE.** Once the hook sling is securely fastened complying to the safety instructions, OIL's Crane shall lift and unload tubulars from the vehicle. Following points are to be noted and complied in this connection:

- (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 SET-OFF:

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)

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.
- 27.4 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), Finance & Accounts Department Oil India Limited, Duliajan, PIN - 786602	i) Bill in original + one copy. ii) Copy of the C-Note/RR. iii) Copy of Mill Inspection Certificate, if any. 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), Materials Department Oil India Limited, Duliajan, PIN - 786602	i) Clear Consignee copy of RR/C-Note-Original+1 copy. ii) Copy of Tax Invoice. 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) Materials Department Oil India Limited, Duliajan, PIN - 786602	One set consisting copies of all the documents as mentioned in (B) above.

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)

Ref: Clause No. A.2 (3.0) - Financial Criteria of the BEC

Tender No.: _____

I the authorized signatory(s) of.....(Company or firm name of address) do hereby affirm and declare as under:-

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

Place :.....

Date :.....

Signature of the authorized signatory

Note: *This certificate are to be issued only considering the time required for preparation of Financial Statements i.e. if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date.*

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.

YEAR	TURNOVER In INR (Rs.) Crores/ USD Million*	NET WORTH In INR (Rs.) Crores / USD Million*

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

Place:

Date:

Seal:

Membership No.:

Registration Code:

Signature:

****Applicable for Global Tenders.***

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.

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

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

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

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

1. The Guarantor confirms that the Bidder is a 100% subsidiary of the Guarantor.
2. The Guarantor agrees and confirms to provide the Audited Annual Reports of any of the preceding 03(three) financial/accounting years reckoned from the original bid closing date.
3. The Guarantor have an annual financial turnover of minimum INR..... Cr or USD during any of the preceding 03(three) financial/ accounting years reckoned from the original bid closing date.
4. Net worth of the Guarantor is positive for preceding financial/ accounting year.
5. The Guarantor undertakes to provide financial support to the Bidder for executing the project/job, in case the same is awarded to the Bidder.
6. The Guarantor represents that:
 - (a) this Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Bidder.
 - (b) the liability of the Guarantor, under the Guarantee, is limited to the 100% of the order value between the Bidder and OIL. This will, however, be in addition to the forfeiture of the Performance Guarantee furnished by the Bidder.
 - (c) this Guarantee has been issued after due observance of the appropriate laws in force in India.
 - (d) this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of New Delhi, India.
 - (e) this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.
 - (f) the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

for and on behalf of (Parent/Ultimate Parent/ Holding Company) (Delete whichever not applicable) <u>Witness:</u> 1. 2.	for and on behalf of (Bidder) <u>Witness:</u> 1. 2.
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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:

The Principal intends to award, under laid down organizational procedures, contract/s for
The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

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 he/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 anti-corruption 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.
- (3) 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 - Disqualification 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.
- (2) 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.
- (2) 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.
- (3) 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.
- (5) 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.
- (3) 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 intentions.
- (5) Issues like warranty / guarantee, etc. shall be outside the purview of IEMs.

<p>M. B. SINGHA For the Principal</p> <p>Date: 18.07.2024 Place: Duliajan</p>	<p>..... For the Bidder/Contractor</p> <p>Witness 1: Witness 2:</p>
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PROFORMA – E

UNDERTAKING FOR LOCAL CONTENT
(To be submitted in the letter head of the bidder)

We, _____ (Name of the bidder) have submitted Bid against Tender No. _____ dated _____ of Oil India Limited. We hereby undertake that we meet the mandatory minimum local content requirement as per the provision of Public Procurement (Preference to Make in India) Order, 2017 of Department for Promotion of Industry and Internal Trade (DPIIT), Govt. of India as revised vide Order No. P45021/2/2017-PP (BE-II) dated 16th September 2020 (and as amended time to time) with modifications as notified vide MoP&NG Order No. FP-20013/2/2017-FP-PNG-Part (4) (E-41432) dated 26th April 2022. The percentage of Local Content in the bid is _____ %.

For and on behalf of _____

Authorized signatory _____

Name _____

Designation _____

Contact No. _____

NOTE: *In cases of procurement **for a value in excess of Rs. 10 crores**, 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.*

PROFORMA – F(1)

**UNDERTAKING TOWARDS COMPLIANCE OF PROVISIONS FOR RESTRICTIONS ON PROCUREMENT FROM A BIDDER
OF A COUNTRY WHICH SHARES LAND BORDER WITH INDIA**

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

Ref. No _____

Date: _____

Tender No. _____ Date: _____

**OIL INDIA LIMITED
MATERIALS DEPARTMENT,
DULIAJAN, ASSAM, INDIA**

Dear Sirs,

We, M/s _____, have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; we certify that we are not from such a country/or if from such a country, have been registered with the Competent Authority. We hereby certify that we fulfil all requirements in this regard and are eligible to be considered. *[wherever applicable, 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)

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 No. _____ Date: _____

**OIL INDIA LIMITED
MATERIALS DEPARTMENT,
DULIAJAN, ASSAM, INDIA**

Dear Sirs,

We, M/s _____, have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such-countries, we certify that we are not from such a country/or if from such a country, have been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. We hereby certify that we fulfil all requirements in this regard and is eligible to be considered. *[wherever applicable, evidence of valid registration by the Competent Authority shall be attached]*

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

TO,

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

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

FORMAT FOR PERFORMANCE BANK GUARANTEE

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

WHEREAS.....(Name and address of Contractor)
(hereinafter called "Contractor") had undertaken, in pursuance of Contact No..... to
execute (Name of Contract and Brief Description of the Work)
(hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee as security for compliance with Contractor's obligations in accordance with the Contract.

AND WHEREAS we (May incorporate the Bank Name) have agreed to give the Contractor such a Bank Guarantee; NOW THEREFORE we hereby affirm that we are Guarantors on behalf of the Contractor, up to a total of (Amount of Guarantee in figures)..... (in words), such amount being payable in the types and proportions of currencies in which the Contract price is payable, and we undertake to pay you, upon your first written demand and without cavil or arguments, any sum or sums within the limits of guarantee sum as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or the work to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way cease us from any liability under this guarantee, and we hereby waive notice of such change, addition or modification.

This guarantee is valid until theday of.....

The details of the Issuing Bank and Controlling Bank are as under:

- A. Issuing Bank:
BANK FAX NO:
BANK EMAIL ID:
BANK TELEPHONE NO:
IFSC CODE OF THE BANK:
- B. 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:

Notwithstanding anything contained herein:

- (a) Our liability under this Bank Guarantee shall is restricted up to Rs.....
- (b) This guarantee shall be valid till
- (c) 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).
- (d) At the end of the claim period that is on or after.....(Date of expiry of.....the 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:

SIGNATURE AND SEAL OF THE GUARANTORS.....
Designation:.....
Name of the Bank:.....
Address:.....

UNDERTAKING BY VENDOR ON SUBMISSION OF BANK GUARANTEE

To,

Oil India Limited,
Materials Department,
Duliajan, Assam - 786602

We, M/s..... are submitting the Bid Security/Performance Security (strike out whichever not applicable) in favour of Oil India Limited, Duliajan in the form of bank guarantee bearing Reference No.....for an amount of INR.....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 H No./Street/City:	State: Country: Pin Code:

Declaration:

We have arranged to send the confirmation of issuance of the bank guarantee via SFMS portal through our bank using the details mentioned in the tender and hereby confirming the correctness of the details mentioned.

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 No.for the supply of (hereinafter called 'the Bid')KNOW ALL MEN by these presents.

That weofhaving our registered office at (hereinafter called 'the Bank') are bound unto the Purchaser, in the sum of for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents.

Sealed with the said Bank thisday of

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws their Bid during the period of Bid validity specified by the Bidder,
or
2. If the Bidder, having been notified of the acceptance of their bid by the Purchaser during the period of bid validity:
 - a) fails or refuses to accept the order; or
 - b) fails or refuses to furnish the performance securityor
3. If the Bidder furnishes fraudulent document/information in their bid.

We undertake to pay to the Purchaser up to the above amount upon receipt of their first written demand (by way of letter /fax/Email) without the Purchaser having to substantiate their demand, provided that in their demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of any of the conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including (Bidder to indicate specific date as mentioned in the tender), and any demand in respect thereof should reach the Bank not later than the above date.

The details of the Issuing Bank and Controlling Bank are as under:

A. Issuing Bank:

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

B. Controlling Office:

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

Notwithstanding anything contained herein:

- a) Our liability under this Bank Guarantee shall be restricted up to Rs
- b) This guarantee shall be valid till
- c) 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).
- d) At the end of the claim period that is on or after (Date of expiry of the 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:

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 _____

To,

**General Manager (Materials)
Materials Department
Oil India Limited, Duliajan**

Sub: Undertaking of authenticity of information/documents submitted

Ref: Your tender No. _____ Dated _____

Sir,

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

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

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

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

Signature of Authorised Signatory

Name:
Designation:
Phone No.
Place:
Date:

(Affix Seal of the Organization here, if applicable)

PROFORMA – K

LETTER OF AUTHORITY

TO,

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

Dear Sir,

Sub: OIL's Tender No. _____

We _____ of _____
_ confirm that Mr. _____ (Name and address)
is authorised to represent us to Bid, negotiate and conclude the agreement on our behalf with you against
OIL's Tender No. _____ 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: _____

Name: _____

Designation: _____

Yours faithfully,

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 _____ of Oil India Limited. We hereby undertake that we are not under liquidation, court receivership or similar proceedings and we are not bankrupt.

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 offer complies with all NIT requirements and specifications without 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- MATERIALS
MATERIALS DEPARTMENT
P.O. DULIAJAN, PIN-786602
DIST. DIBRUGARH, ASSAM, INDIA**

Dear Sir,

Sub: OIL's Tender No. _____

I/We _____ confirm that Mr. _____ (Name and address) is authorized to represent us during bid opening on our behalf against Tender No. _____

Yours Faithfully,

Authorised Person's Signature: _____
Name: _____
Signature of Bidder: _____
Name: _____
Date: _____

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.*

ANNEXURE – IV

BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)

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)
SECTION- I: TECHNICAL SPECIFICATION OF ONE (1) NUMBER OF CABLE LESS SEISMIC DATA ACQUISITION SYSTEM			
1.0	<u>SCOPE</u> The scope of the tender is to supply One (1) no. new generation, field proven state-of -art, 24-bit delta-sigma technology-based Land Cableless Seismic Data Acquisition System capable of acquiring 2D and 3D Seismic Data in different terrain.		
2.0	<u>GENERAL</u>		
2.1	The seismic data acquisition system should be complete as per specifications/detail requirement given herewith (underneath) and be ready for the deployment in the field. The system should comprise of all basic components and other necessary ancillary hardware & software components fully compatible with offered ground electronics, shooting system, data harvesting device and communication devices etc. for full-fledged multiline field operation.		
2.2	Irrespective of the specifications/detail requirement given herewith (underneath) vendor should ensure that the system is fully operational with the deployment of minimum 12000 channels. If any additional items are required for the purpose, vendors need to provide/quote the same.		
2.3	The central recording/controlling system (including human-machine interface /operator console) should be duly interfaced and compatible with the seismic data storage device (Rugged Internal Storage devices or External Storage Devices with RAID 5 & RAID 1 or higher available configuration respectively), data harvesting system, shooting systems, radios/walkie-talkie for two way communication, peripheral equipment like printer(s), LED monitors (to display operational spread management, field QC test results etc.), and other modules/accessories necessary to operate the system optimally as per the specifications/requirements. The Central recording/controlling system should be mounted on suitable shock mounts to withstand the shocks & vibrations encountered during transportation in cross country. The entire central recording/controlling system should be mounted in an adequately & properly air-conditioned cabin.		
2.4	The seismic data acquisition system should be capable of multi-line operations and allow selection of requisite nos. of channels per line/swath for 2D/3D seismic work. The system implies, unless otherwise		

	explicitly mentioned, cable less seismic data equipment (Section – IA , item 3.0), recording equipment (Section–IA , item 4.0), ground electronics (Section – IA , item 5.0), data harvesting unit (Section–IB , item 8.0 & 9.0) and product support (Section–IH , item 18.0, 19.0 & 20.0) capable of recording 2D/3D seismic data		
2.5	The system should have the capability of up gradation to minimum 20000 channels & should also offer the facility to upgrade the central recording/controlling unit, Harvesting unit and related software accordingly.		
2.6	The system should work on user-friendly menu driven software. The details of the software along with number of channels supported per license for data acquisition should be enclosed in the documentation with the offer. The details of all the other offered software required for field QC status, field management, shooting operation and data harvesting /data transcription etc. along with licenses should also be documented & enclosed with the offer.		
2.7	The supplied system shall have easy to use graphical user Interface with capability of providing graphical & numeric display of the acquisition spread configuration and on the fly QC status and fault detection of data acquisition station units/links (GPS, Battery, WLAN frequency signal, self-diagnostic test), Power Supply Units, Batteries, Geophones etc. at the ground station unit level.		
2.8	Appropriate number of Data Acquisition Station Units should be supplied as mentioned vide Section – IA, item 5.1.		
2.9	The data acquisition station units, ground electronics for land seismic should be rugged for field use and should be waterproof (IP67 or higher rating).		
2.10	Central Controlling/recording/harvesting unit should be capable of initializing and setting-up of recording parameters of the data acquisition units/Links and the acquisition system should have the facility to record 2D/3D data in cable less mode.		
2.11	The acquisition system inclusive of all the ground electronics offered should be of the latest make & model available at the time of bid submission.		
2.12	All the peripheral equipment and accessories offered along with the seismic data acquisition system and ground electronics should also be of the latest make & model available at the time of bid submission if otherwise not stated specifically.		
2.13	In case the system offered during the bidding gets obsolete at the time of supply bidder shall supply latest make & model available acquisition system inclusive of all the ground electronics, peripheral items, and accessories.		
2.14	The acquisition system should support impulsive energy source (Dynamite) controller as well as non-impulsive energy source (Vibrator) controller during seismic data acquisition.		
2.15	It shall offer the facility for recording data using Low Distortion High Performance digital sensors.		
2.16	The supplied system shall support GPS based multiple radio blasters and the supplied GPS based shooting systems shall enable precision in positioning of shot co-ordinates with a positional accuracy of less than 1 m (meters).		
2.17	If the company desires to buy any additional items (manufacturer items) quoted in the bid after the placement of firm order to the respective bidder, the bidder shall provide the items at the same rate, terms & condition to Oil India Limited (OIL) upto maximum 100% of the tendered quantity. However, this order will be placed within two years from the date of completion of Installation & Commissioning of Equipment.		

SECTION - IA: NODE BASED SEISMIC DATA ACQUISITION EQUIPMENT

<p>3.0</p>	<p><u>SEISMIC DATA ACQUISITION EQUIPMENT</u></p> <p>a) Acquisition units : 12000 nodes b) Number of channels per ground station : 1(One) c) Sources Compatibility : Impulsive (Dynamite) & non-Impulsive (Vibrator) d) No. of bit digitization : 24 bit or higher digitization e) Operation Mode : Autonomous f) Recording Mode : Continuous g) Sensor Compatibility : Digital h) Clock Synchronization : GPS i) Timing Accuracy : ≤ 20 μs j) Communication : Suitable technology* <i>(*For communication between Node, QC tool and central recording/controlling system)</i></p> <p>k) Internal Memory size (Node) : 16GB or Higher l) Battery (Node) : Internal m) Quantity of battery chargers : Optimized as per requirement estimated for proposed nos. of batteries against serial no. (l) plus 20% spare. n) Battery charger specifications : Smart battery chargers as required. o) Operating temperature range : -30°C to +60°C p) Field QC tools* : At least 50 numbers of Field QC tools compatible with ground station units proposed for wireless field status collection need to be provided. q) The Field QC system communicating Field QC Status of nodes to Central Recording/ controlling system through suitable technology** needs to have minimum following features:</p> <p>i. GPS /Battery/Position/ available memory/station unit identification log status ii. Noise/harmonic distortion/channel response iii. Common Mode Rejection iv. Sensor noise, tilt, distortion, leakage, natural frequency, damping, etc.</p> <p><i>* Vendor should specify their technology for logging and transfer of QC data from Node to Field QC tool and vice versa. Necessary documentation in this regard needs to be submitted.</i></p> <p><i>**Vendor should specify their technology for communication between Field QC tool to Central Recording/ controlling system.</i></p>		
<p>4.0</p>	<p><u>RECORDING EQUIPMENT</u></p>		
<p>4.1</p>	<p><u>CENTRAL RECORDING / CONTROLLING UNIT – 2 Nos.</u> The central recording system with minimum components:</p>		

	<ul style="list-style-type: none"> a) Central Station Computer b) Quality Control Computer (Real time Spread QC results) c) Central Radio Unit d) Suitable Communication Tool e) Source Encoder/Decoder f) Data Storage Devices 		
4.1.1	Channel capacity: Software License for recording minimum 20,000 channels at 2ms Sample Interval (SI) for both impulsive and non-impulsive operation.		
4.1.2	Multiline capacity: Atleast 24 seismic lines		
4.1.3	Sample rate: 1, 2 and 4 milliseconds		
4.1.4	Auxiliaries Channels: Minimum 4		
4.1.5	Instruments Test: Selected and auto analysed in field, Facility for self-diagnostic and fault detection for Central Recording Unit. Provision with tools for testing of QC programmed parameters for individual field units along with instrument test data analysis.		
4.1.6	Recording Length: Selectable up to 25 seconds @ Sample intervals (SI) mentioned in clause 4.1.3		
4.1.7	<p>External Storage (2 no.): Ground Electronics QC status / Log file data storage facility to be provided with suitable external storage device compatible with the main central recording equipment with having actual storage capacity of minimum 2TB or more.</p> <p>Note: <i>It is a prerequisite that redundancy & integrity of the Ground Electronics QC status / Log file data is to be maintained.</i></p>		
4.1.8	Recording Format: SEG D and/or SEG Y		
4.1.9	SPS Import & Export - System and the associated application software should have the facility for Import & Export of Receiver, Source & Relation files in industry standard formats (viz. SPS, SEG-P1, etc.), logging of observer's parameters etc.		
4.1.10	<p>Acquisition Spread Configuration: (applicable in coordination of Section-IA, item 4.1.b only)</p> <ul style="list-style-type: none"> a) Central Station Computer must have graphical user interface (GUI) based system management facility. The computer must have the capability of providing graphical & numeric display of the acquisition spread configuration and should provide on the fly QC (Quality) status and fault detection of various field units. b) Minimum Four numbers (4 Nos.) of colour LED monitors [size 24-inch flat screen (viewable or bigger)] should be provided to the observer for spread management, source operation control, monitoring of external storage utilities, spread quality control by analysis of spread status data etc. Moreover, Central Station Computer have the capability for analysis of Spread Quality control test data acquired by Cableless equipment for acquisition spread configuration. 		
4.1.11	<p>System & Application Software</p> <ul style="list-style-type: none"> a) The system should be complete with hardware & application software, required for operations, maintenance and management of acquisition spread deployed in the field. The system should have an extensive line management facility. 		

	<p>b) The system & application software should be capable of providing real time source positions when used with GPS based shooting systems. However, normal shooting option via SPS file/industry standard relation file with pre surveyed points must be available with proposed system.</p> <p>c) All software must be supplied on DVD/USB Drive.</p>		
4.1.12	<p>Ground Station Unit self-diagnostic test: The following system tests including data quality control must be available at ground station level during complete layout of the spread through standard line tester at ground station level:</p> <p>a) Leakage, continuity b) Impulse response c) Battery voltage status d) Noise and distortion e) Hardware diagnostic tests etc. f) GPS status g) Transmitting signal strength</p>		
4.1.13	The necessary interface, hardware, software, drivers, licenses, or dongle as may be required to display the field QC status data to Central Recording/Controlling Unit should be provided.		
4.1.14	DVD Writer: DVD R/W or DVD R drive should be interfaced with the system to load application software as and when required.		
4.1.15	User Interface: Graphical Users Interface with keyboard, mouse, minimum 24-inch colour LED monitor and all other associated accessories.		
4.1.16	Blaster support: The system should support GPS based multiple radio blasters and the GPS based shooting systems should enable precision in positioning of shot co-ordinates with a positional accuracy of less than 1 m (meters).		
4.1.17	<p>Power Requirement:</p> <p>a) SMPS should be provided for operating the system on 220 V AC + 10% & 50 Hz + 1 Hz. b) Additionally, the power system should also provide 12V DC required for operating equipment mounted in the cabin viz. shooting system, communication radio, etc</p>		
4.1.18	Operating Environment: The central controlling/recording unit should be able to withstand operating temperature from -30°C to 60 °C and 0% to 100% relative humidity (non-condensing).		
4.1.19	<p>Vibrator support:</p> <p>a) The central controlling/recording unit should have all the hardware & software for recording Vibroseis data. It should have the capability to generate source-correlated data that will be recorded as Shot records in the disk or in the recording media during data acquisition in field. b) The system should have all the hardware and necessary software for carrying out spread quality control while acquiring Vibroseis dataset (wherever applicable). c) The hardware of the central controlling/recording unit should have all the necessary interface facility for supporting and connecting Vibrator Control electronics so that if required by the user in future, it is possible to connect vibrator control electronics to the central controlling/recording unit by</p>		

	<p>additional hardware or software if any.</p> <p>Note: Irrespective of the specification/detail requirement given herewith vendor should ensure that the system is fully operational with the deployment of minimum 12000 channels. If any additional items required for the purpose, vendor need to provide the same, without any extra cost to OIL.</p>		
5.0	GROUND ELECTRONICS		
5.1	<p>DATA ACQUISITION STATION UNIT: Data Acquisition Station Unit required to layout a total of 12000 channels for seismic data acquisition including digital geophones.</p> <p>(a) Channels Capacity : 1 channel per Data Acquisition Station Unit</p> <p>(b) Sample Interval : 1, 2 and 4 milliseconds.</p> <p>(c) Recording Mode : Continuous</p> <p>(d) Sensor Compatibility : Digital</p> <p>(e) Clock Synchronization : GPS</p> <p>(f) Timing Accuracy : ≤ 20 μs</p> <p>(g) Power Supply : Internal battery</p> <p>(h) Operating Environment : Operating temperature between -30°c to + 60°c</p> <p>(i) Storage Environment : Storage temperature between -30°c to + 60°c</p> <p>(j) Humidity Range : 0 to 100%</p> <p>(i) Time Stamping : GPS disciplined clock synchronization</p> <p>(ii) Communication with CRU : Suitable technology to view Node QC at CRU/CCU.</p> <p>(k) Flash Memory per Station Unit : 16 GB or Higher</p> <p>(l) Indicator : LED Status Indicator</p> <p>(m) IP rating : IP 68 or higher</p>		
5.1.1	<p>Ground Station Unit (node) self-diagnostic test: The following system tests including data quality control shall be available at ground station (node) level during complete layout of the spread through supplied standard QC tool at ground station level:</p> <p>a) Leakage, continuity,</p> <p>b) Impulse response,</p> <p>c) Battery voltage status,</p> <p>d) Noise,</p> <p>e) Distortion,</p> <p>f) Tilt, Phase,</p> <p>g) Hardware diagnostic tests etc.,</p> <p>h) GPS status,</p> <p>i) Transmitting signal strength</p>		
5.2	GEOPHONE SPECIFICATION:		
5.2.1	High-performance Industry standards single component digital geophones only should be provided. The quoted geophones should be fully compatible with seismic data acquisition system along with interface.		

	<p>The geophones offered should have the following technical specifications:</p> <p>Geophone Type : Digital Sensor per station : 1 (One) Bandwidth : 0-400 Hz or higher Noise : $\leq 0.3 \mu\text{m/s}^2 / \text{VHz}$ (30nG/VHz) High-Cut Filter : ≥ 0.8 Nyquist Distortion : ≤ -100 dB Full Scale (Peak) : $\geq 3.3 \text{ m/s}^2$ (335 mG) Dynamic range : ≥ 116 dB Polarity : Standard SEG Operating Temperature : -30°c to $+60^\circ\text{c}$</p> <p>Note:</p> <p>(a) <i>As the geophones are used in difficult field conditions, the bidder should quote rugged field proven industry standard products. In case, the bidders of main seismic data acquisition system (or their subsidiary) are manufacturing and selling their own geophones, the same may be offered. However, these should meet the technical specification as given above.</i></p> <p>(b) <i>In case, the single component digital geophones are not manufactured by the bidders of the main seismic data acquisition system, the bidder should offer fully compatible, rugged, and field proven industry standard products only which have been used by exploration and / or geophysical service company (ies) successfully during last three years. The geophones offered should comply with the technical specifications given above. The bidder has to submit certificate from the user(s) in this regard. The responsibility of such products will rest with the main bidder.</i></p>		
<p>5.3</p>	<p>GPS BASED RADIO BLASTING SYSTEM: The radio blasting system should be interfaced with the system. It will include following parameters:</p> <p>Firing accuracy : better than 20 μs Decoder Operating : at 12 Volt standard battery Firing voltage : 400 V Sample rate : 0.5 millisecond Firing current : $> 200 \text{ A}$ (0.5 Ohm load) Charging Time : < 1 second CAP and Geophone test Operating temp. : -30° to $+60^\circ\text{C}$</p>		
<p>5.3.1</p>	<p>The GPS based radio blasting systems should provide positional accuracy less than 1 meters and the operational range of minimum 15 Km</p>		
<p>5.3.2</p>	<p>The GPS based radio blasting system should have the facility for co-ordinate transformation from WGS-84 to local projection system (based on Survey of India map) and offer the facility for uploading location (positioning) information in industry standard format.</p>		

5.3.3	The necessary hardware and software interfaces are required to synchronize and control the shot sequence.		
5.3.4	These should be complete with all the accessories and peripherals viz. battery, battery charger, mounting bracket, antenna, GPS device, firing line & Uphole line cable, Uphole Geophone, radio power cable, etc. ready to be used for deployment in the field. The encoder should operate on 12V DC power supply voltage and the decoders should operate on 12V DC portable batteries.		
5.3.5	The Radio-controlled blasting systems should operate with industry standard safety features. It should have VHF radio communication link (both voice & data) between the 'recorder end' and 'shot end' electronics.		
5.3.6	For safety and security at least ten (10) security codes should be provided on the encoder & decoder		
5.3.7	The integrated blasting system should have necessary voltage and current capacity to detonate industry standard detonating devices.		
5.3.8	The 'Record end' system must take the command from (Central Controlling / Recording Unit) and return the 'Time Break' and 'Uphole' signals to be recorded by the seismic data acquisition system. Moreover, the encoder and decoders should display all the relevant information viz. Uphole, privacy setting, etc.		
5.3.9	The radio blasting system should be interfaced with the system including encoders and decoders. The bidder must provide Four (4) nos. of encoder and Twelve (12) nos. of decoder.		
5.3.10	The system & application software supplied shall be capable of providing real time source positions when used with GPS based shooting systems. However normal shooting option via SPS file/industry standard relation file with pre surveyed points shall also be available with supplied system.		
6.0	<p>LVL & Up-hole Recorder - Two (02) nos.</p> <p>Should be a new generation compact portable 48-channel seismograph system for shallow refraction and reflection studies including weathering analysis of M/s Geometrics make or equivalent/Better with following specifications or higher:</p> <ul style="list-style-type: none"> ➤ Weatherproof instrument with High Resolution sun visible screen, Light weight, low power and portable ➤ Compatible with energy source Dynamite/Detonator, Hammer/Plate ➤ Record Length Minimum 24000 samples ➤ Real time digital acquisition and display filters ➤ A/D Conversion 24-bit delta-sigma results ➤ Dynamic range \geq 120 dB ➤ Filter & noise reduction Technology ➤ Pre-trigger Delay: allow viewing of data before trigger for monitoring 0 to 9999ms in 1ms increment. ➤ Pre-trigger memory allows viewing of data before trigger. ➤ Sample Interval selectable among 1/48, 1/32, 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8ms. ➤ Data Display wiggle trace, shaded or variable area, trace clipping, AGC, fixed gain & post-acquisition filtering. ➤ Data storage sufficient for several days recording including USB/External Hard disk. ➤ Interfaces: RS232 hi-speed serial port/Ethernet, video, keyboard, and printer ➤ Should run on 12 V external battery. 		

- Infield Processing:
 - Facility for First arrival (first breaks) automatically on the seismograph screen
 - On screen Travel Time Plots, Facility for generation of velocity cross-section on seismograph, Automatic calculation of depths below shots & geophones
 - Automated facility for preliminary layer assignment (through seismograph) and should be user editable.
 - Print tables of all data, depth calculation and quality control plots.

6.1 A complete suite of PC/Laptop-based comprehensive refraction modelling & interpretation software with facility for modelling, ray tracing, automatic & manual first break picking, quality control and analysis & interpretation of the acquired data. The application Software pre-loaded on a branded Laptop (LENOVO, HP & DELL) of suitable hardware configuration for using the application software & carrying out various analysis should be offered. The application software should also be provided on CD/DVD media or downloadable with necessary license key/dongle etc. to operate the software. Two (02) sets of detailed hardcopy technical manuals should be provided in English language and additionally, two (2) set should be provided on CD/DVD/USB media.

6.1.1 **Laptop Configuration**

Laptop (2 Nos.): Should be quoted (only branded systems viz. HP, Lenovo, and DELL to be quoted) with the following specifications or higher:

Processor	Minimum 12 Generation Intel Core i7 Processor (4.7 GHz, 24 MB L3 cache, 14 cores) equivalent or higher.
OS	Windows 11 Pro 64 bit or Higher as per latest available at time of supply
Memory	32 GB DDR5-4800 MHz RAM (1 x 32 GB)
Storage	1 TB SSD SATA 3,
Graphics	NVIDIA® Quadro® T600 (4 GB GDDR6 dedicated)
Display	Minimum 15.6" diagonal FHD (1920x1080) or Higher
Keyboard	Standard keyboard with touchpad & backlight
Mouse	All surface Bluetooth Mouse
Connectivity	2 nos. USB 3.0 ports, 1 nos. HDMI Port, 1 nos. USB C type, 1 nos. eSATA/USB 3.0 combo port, 1 RJ 45 Ethernet, security lock slot
Audio	Stereo sound with internal speakers, Integrated Microphone
Battery	Minimum 8 cell Li-Ion Battery,
Adapter	External AC adapter with Power cord
Others	All Drivers on CD/DVD media, carrying case, users' manual in English Only. Power and all other interconnecting cables to be provided, Power extension spike guard with six nos. of 5- or 15-amps output or both as per the system requirement.

6.2	<p>Following accessories should also be supplied along with the LVL & Uphole recorder:</p> <ul style="list-style-type: none"> - 4 nos. of HV electronic blaster for dynamite energy source. - 6 nos. of cables with 24 takeouts each for connecting geophones, at 15 meters interval. Length of each cable should be 400 meters with suitable connectors to connect with LVL recorder. - 100 nos. of single unit 4.5 Hz natural frequency geophones in land cases with 3" steel spike and suitable connectors for up-hole and refraction surveys. - Two (02) sets of Hammer plate, Hammer, Waterproof carrying box & extra accessories. - Two (02) sets of Trigger input for direct USB 2.0 or higher version. 		
7.0	COMMUNICATION		
7.1	Walkie-talkie sets (multi-channel VHF sets, Motorola 340/GP-328/equivalent or higher): 100 nos.		
7.1.1	Output power: 5 watts		
7.1.2	Frequency: to be specified with firm order by OIL.		
7.1.3	Each walkie-talkie set should have antenna, two rechargeable battery packs and necessary chargers.		
7.1.4	The bidder must obtain necessary permission towards import and use from concerned licensing authority in India corresponding to such offered & supplied items.		
7.2	<p>Two-way Professional Radios (20 nos.): Suitable two-way professional radios should be attached to the blasters and recording equipment for to and fro communication. The power of the VHF Radios should be 25 watts and should be able to operate in the range of 136 to 174 MHZ. The radios should be complete with all the accessories and peripherals viz. microphone, antenna, chargers, cables & connectors etc</p>		
7.3	Bidder shall obtain frequency license for supplied radio equipment. OIL will provide all necessary administrative support to bidder for obtaining frequency licenses from the licensing authority in India		
SECTION - IB: TRUCK MOUNTED DATA HARVESTING & CHARGING CABIN WITH EQUIPMENT			
8.0	<u>Supply of Brand-New Truck Mounted Data Harvesting & Charging Cabin as per specifications, fitment and accessories etc. detailed hereunder:</u>		
8.1	The bidder shall take special care in selecting, designing, fabricating the Truck mounted Data Harvesting & Charging Cabin to be used for seismic survey operations considering the unit's application in typical oilfield roads. The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories, safety features etc. and shall be built completely in all respects without requiring any further fitment/modification in the Data Harvesting & Charging Cabin on delivery to Oil India Limited by the supplier (successful bidder).		
8.2	<p>Overall dimensions & weight of complete unit:</p> <p>(a) Overall Length : Within 10500 mm (b) Overall Width : Within 2600 mm (c) Overall Height from ground level : Within 4500 mm (d) Overall weight i.e. Total Mass : The total weight (mass) of the complete unit must be within the permissible GVWR of the offered vehicle</p>		

8.3**DATA HARVESTING & CHARGING CABIN: One (1) no.**

The whole system i.e., **Data Harvesting & Charging Unit** and peripherals should be installed in a suitable, sturdy, and field worthy air-conditioned cabin to be powered by external generating set [**Section – IC, item 10.0 (i)**] to operate all the equipment. The Data Harvesting & Charging Cabin shall house the Data Harvesting & Charging Unit and Battery Charger as detailed under **Section–IB, Item 8.5 & 9.0.**

The Data Harvesting & Charging Cabin shall be of Indian make and the mounting on the Truck chassis shall be done in India. The cabin should be fitted with all fittings, accessories, safety features etc. in all respects without requiring any further fitment/modification on delivery to Oil India Limited by the supplier (successful bidder). All fittings, accessories and materials used for fabrication and mounting of the Data Harvesting cabin shall be brand new, unused and of recent manufacture equipment/items and free from manufacturing defect. The Data Harvesting Cabin shall meet the following specifications.

a.	Dimensions	Length (Inside): <i>Approx. 6100 mm</i> Width (Inside): <i>Approx. 2500 mm</i> Internal Height: <i>Approx. 2700 mm</i>
b.	Longitudinal Runners (Chassis sub-frame)	All steel structure.
c.	Cross members (Chassis sub-frame)	All steel structure.
d.	Body Frame Structure	All welded galvanized steel/iron structure. Structure to be painted with high rich Zinc primer.
e.	Exterior Panelling	Galvanised steel/iron panel of adequate thickness.
f.	Colour- Exterior	All steel components used in the fabrication should be pre-treated and applied with metal primer. Final colour should be "White" desirably Polyurethane (PU) paint
g.	Interior (Sides, Roof) Panelling	Galvanised iron PVC coated panel of adequate thickness, desired colour White/Otis grey.
h.	Flooring	Minimum 5mm MS Chequered plate. The entire flooring should be covered completely with anti-skid aluminium chequered plate.
i.	Insulation (Roof & Body)	Thermocole, Fire Retardant (FR) grade and Water/Moisture Resistant.
j.	Table	<i>To be specified by bidder.</i>
k.	Lockers	<i>To be specified by bidder.</i>
l.	Door	<i>To be specified by bidder.</i> <i>(Rear & Side)</i>
m.	Lamp	Minimum 04 Nos. side wall mounted LED Lamps shall be provided inside cabin to be powered by external generating set. Minimum 02 No. roof mounted LED Lamp shall be provided inside cabin to be powered by external generating set.

n.	Deck Area	Full platform width deck area of not less than 1 m is to be provided at the rearmost i.e. in front of the Data Harvesting & Charging Cabin door at the rear. Rust proof metallic railings with handrail and vertical / horizontal baluster desirably of rust proof Aluminium / Steel are to be provided along the side of the deck area.
o.	Input Cables from Line	<i>To be specified by bidder.</i>
p.	Power socket panel	<i>To be specified by bidder.</i>
q.	Air conditioner	<p>Two number of 1TR Split Air Conditioners shall be provided for cabin and shall be capable of maintaining cabin temperature below 20°C. Ambient temperature is from 10°C to 45 °C with humidity up to 80%, non-condensing. The power supply shall be 230V.</p> <p>The AC indoor unit shall have provision of proper fastening to prevent it from falling during transportation from location to location. The Air Conditioners are to be mounted at convenient locations of Cabin. The indoor units of the Air Conditioners are to be mounted with metallic frame fixed with the body structure of the Cabin. The outdoor unit should be securely mounted to prevent any movement or vibrations during travel. Use of appropriate brackets or mounts to ensure stability. The outdoor unit should be shielded from direct exposure to rain, dust, and other environmental elements. A protective cover or housing shall be installed that allows for airflow while keeping the unit safe from the weather. A suitable water drain line shall be fitted, if required. The air conditioners are to be powered by the supplied generating set.</p> <p>Power for each AC shall be from 20 Amps metal clad wall sockets. Following points are to be considered for the AC units:</p> <ol style="list-style-type: none"> 5. Compressor shall be of inverter type. Make: Voltas /LG / Blue Star / Carrier / Lloyd / Samsung / Haier/Hitachi/Daikin. 6. BEE rating: 5 star rated (with current year validity). 7. The machine shall be warranted for 1 year and compressor shall be guaranteed for 5 years. Duly signed warrantee / Guarantee certificate shall be submitted at the time of delivery. 8. Control: Through remote

		<p>Safety of all the electronic equipment installed in the cabin should be ensured by taking adequate precautions in the cabin design, AC fitting etc. so as to prevent moisture, water, etc. from entering into the cabin either from AC trays or from rains.</p>		
	<p>r. Power Socket provision</p>	<p>The following are the minimum Power Socket provision:</p> <p>220VAC: 04 Nos. (To be powered by external generating set)</p> <p>Additional switch board with socket: 04 Nos Additions power extensions boards from UPS to computers/ printers/NAS etc: 05 Nos</p>		
	<p>s. Positioning of Battery Charger Unit</p>	<p><i>To be specified by bidder.</i></p> <p>Minimum 02 (two) nos. Fire extinguisher mounting inside Data Harvesting & Charging cabin at convenient locations to be fitted.</p> <p>Complete electric wirings, fittings, accessories etc. to power the Data Harvesting & Charging cabin electrical items from external Generating set to be fitted.</p> <p>Complete electric wirings, fittings, accessories etc. to power the lamps inside Data Harvesting & Charging cabin and Flood light from external Generating set to be fitted.</p> <p>Foldable ladder with antiskid surface at Rear & Side to be fitted.</p> <p>Suitable damper/shock absorbers, if required to arrest vibration of Data Harvesting & Charging cabin as per design to be fitted.</p> <p>All steel components used in the fabrication should be pre-treated and applied desirably with zinc rich primer.</p> <p>Side, Top, Repeater marker lights shall be powered by vehicle battery.</p> <p>Retro reflective tape to be fitted on the front, rear and both side of the vehicle per the colour code - Front: White, Rear: Red and Sides: Yellow in the unit(s).</p> <p>Minimum one number Flood Light near the <i>Rear Door & Side Door</i> of Data Harvesting & Charging cabin to be powered by external generating set to be fitted.</p> <p>The inscription "OIL INDIA LIMITED, A GOVERNMENT OF INDIA ENTERPRISE, DULIAJAN, ASSAM-786602" with "OIL LOGO" & "PURCHASE ORDER NUMBER" shall be painted prominently on the body of Data Harvesting & Charging cabin. (Logo/specification shall be provided by Oil India Limited after placement of order)</p>		

			<p>The Data Harvesting & Charging cabin, its fittings/accessories and deck area must be within the original chassis of the vehicle supplied by the vehicle manufacturer. Extension of the original chassis by welding/bolting or by any other means to accommodate the Data Harvesting & Charging cabin, its fittings/accessories and deck area is not acceptable.</p>		
			<p>Door, window and latches etc. shall not allow to ingress of rainwater/dust inside the Data Harvesting & Charging cabin when in the closed position. Data Harvesting & Charging cabin is to be shower tested and necessary test report is to be submitted.</p>		
	t.	Credential of body builder	<p>The entire design, fabrication and mounting etc. shall be done by any of reputed body builder approved by Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc.</p> <p>Details of body builder with valid certification from Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc. is to be submitted along with technical bid by the bidder.</p>		
	u.	Drawing	<p>Detailed dimensional drawing (Plan, Elevation, Side views) of the complete unit (Truck Mounted Data Harvesting & Charging Cabin) along with detailed mounting & material construction of the Data Harvesting & Charging cabin structure, exterior panelling, interior panelling, flooring etc. from the body builder should be submitted along with the technical bid by the bidder(s).</p> <p>Also, the prospective supplier (successful bidder) shall have to submit final detailed dimensional drawings along with detailed mounting and material construction of Data Harvesting & Charging cabin from the body builder within 30(thirty) days from the date of OIL's purchase order before manufacturing & fabrication of the Data Harvesting & Charging cabin. The same should be prepared based on order specification & OIL's requirement.</p>		
8.4	<u>TRUCK FOR 01 (ONE) NO. DATA HARVESTING & CHARGING CABIN</u>				
	<p>The truck should accommodate the Data Harvesting & Charging Cabin (Section – IB, item 8.3), The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories; safety features etc. and shall be built completely in all respects without requiring any further fitment/modification</p>				

on delivery to Oil India Limited by the supplier (successful bidder).

8.4.1 Mounting of the Data Harvesting & Charging cabin on the truck chassis is responsibility of the supplier (successful bidder).

8.4.2 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.

8.4.3 The truck shall have the following specifications:

1	Month & Year of manufacture; Make	Brand new Truck chassis model with Driver Cabin & load body of any vehicle manufacturer of India, procured after the date of issuance of Purchase Order (PO) /Letter of Intent (LOI)/ Letter of Award (LOA) and meeting the specifications as mentioned in the Tender / Purchase Order. The bidder shall mention the make & model of the offered Truck chassis in technical bid including all other requisite specifications.
2	GVW	Not less than 18500 kg.
3	Wheelbase	In the range of 4200 mm to 6800 mm. The wheelbase is the horizontal distance between the centres of the front axle and rear axle wheels.
4.	Overall Dimensions	As mentioned in Section – IB, Clause No. 8.2 above.
5.	Engine	Water cooled Diesel fuel engine of adequate power and torque. Air cooled engine is not acceptable.
6	Emission Norms	Bharat Stage – VI (BS VI) OBD Stage II. Shall also comply Real Drive Emissions (RDE) using Portable Emissions Measurement System (PEMS) requirements. The bidder shall mention the emission norms of the offered vehicle in the technical bid.
7	Steering	Power assisted and Right-Hand Steering (i.e., Steering wheel shall be on the right-hand side inside the Driver’s cabin when viewed from the rear of the vehicle). Unit with left hand steering is not acceptable.
8	Gearbox	Minimum 5 forward speed & 1 reverse speed.
9	Brake	Air or Hydraulic power assisted foot operated Brake with Antilock Braking System and suitable hand operated Parking Brake.
10	Drive	4 x 2 Drive, Rear Axle Drive.
11	Axles	Front – 1 No., Rear – 1 No. (Drive axle).

12	Suspension (Front & Rear)	As per the Truck manufacturer.
13	Wheels & Tyres	<p>Front- Total 02 Nos. Rear – Total 04 Nos.</p> <p>[The Truck shall have total 04 (four) numbers of wheels in both side of the rear axle. Truck with total 02 (two) numbers of wheels in both side of the rear axle shall not be acceptable].</p> <p>Spare – Spare wheel to be supplied. Suitable mounting arrangement facility for spare wheel shall be provided.</p>
14	Fuel Tank & Diesel Exhaust Fluid (DEF) Tank	As per vehicle manufacturer.
15	Speed Limiting Device (SLD)	To be provided with valid certification as per Indian Motor Vehicle Rules as applicable in the state of Assam (India).
16	Vehicle Tracking System (VTS)/GPS:	To be provided with valid certification as per Indian Motor Vehicle Act/Rules as applicable in the state of Assam (India).
17	Fitments & accessories:	<p>Following fitments & accessories shall be fitted in each vehicle:</p> <p>k. All standard fittings, accessories, standard gauges, and meters as per Indian Motor Vehicle Act/Rules shall be fitted. The Speedometer & the Odometer shall be with Metric KM calibration system only.</p> <p>l. Rear view mirrors at both sides of the driver’s cabin, horn, driver cabin lamps, head lamps, parking lamps, tail lamps, direction indicator lamps, stop lamps, fog lamps, windscreen wipers, first aid box, floor mats, footsteps, grab rail, mud flaps/guards, fire extinguisher etc. shall be fitted in the vehicle.</p> <p>m. 01 (one) number spare wheel assembly shall be supplied in the vehicle.</p> <p>n. Suitable towing provision/attachment at Front and Rear of vehicle.</p> <p>o. 01 set of Jack with Handle and Wheel Wrench with Lever shall be supplied along with the 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 the vehicle.</p>

- p. Suitable electrical Master Switch to disengage all electrical circuits from battery, Well-covered Battery Box shall be fitted in each unit.
- q. Wherever feasible, Bumpers, side under run protection device (SUPD)s, rear under run protection device (RUPD), front under run protection device (FUPD) are to be fitted.
- r. To fix retro reflective on the front, rear and both side of the complete unit as per the colour code- Front: White, Rear: Red and Sides: Yellow.
- s. Audible alarm to sound while the vehicle is put in reverse gear.
- t. Suitable Spark Arrestor in the engine exhaust. The Spark Arrestor may be additional attachment to be fitted with the exhaust or chassis inbuilt mechanism.

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Driver's cabin

Originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle, complete with all standard fittings and accessories without requiring any subsequent fabrication job in it.

Seating capacity minimum 02 (two) Nos. including Driver and containing Driver's seat, Co-passenger's seat, steering wheel, all controls, instruments, and other devices necessary for driving or operating the vehicle.

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.

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Load body and platform

Steel platform, originally built & supplied along with the vehicle by the vehicle chassis manufacturer of the offered vehicle.

High side deck or Hood in the load body is not acceptable.

Note: While selecting the vehicle, bidder to note that the load body accommodates the Data Harvesting & Charging cabin offered by the bidder as specified elsewhere in the tender.

	20 Notes	<p>(a) In case any of spares, fittings/accessories etc. as mentioned in the tender does not come along with the vehicle as standard spares, fittings/accessories from the vehicle manufacturer, the supplier shall procure the same and fit the same prior to delivery of the vehicle without any extra cost to Oil India Limited.</p> <p>(b) Suitable Gap as per standard between the Truck driver's cabin and the rear equipment/machineries shall be provided.</p>		
	21 Drawing	<p>In addition to submission of technical brochure/leaflet of the offered Truck, the bidder shall also submit the following along with the technical bid:</p> <p>(j) Mounting details of the Data Harvesting & Charging cabin from the reputed workshop/fabricator etc.</p> <p>(iv) Dimensions (length, width & height) & weight of the Data Harvesting & Charging cabin. Also, the prospective supplier shall have to submit final detailed dimensional drawings along with detailed mounting and material construction from the fabricator within 30 (thirty) days from the date of OIL's purchase order before mounting the generating set etc. on factory built (i.e., originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle) load body. The same should be prepared based on order specification & OIL's requirement.</p>		
	22 Documents/literatures to be submitted along with the supply:	<p>The following documents/literatures shall be submitted for each vehicle along with the supply by the supplier and cost in this regard, if any, shall be borne by the supplier:</p> <p>Invoice(s) in original.</p> <p>Notwithstanding any clause mentioned elsewhere in the NIT/tender, the invoice(s) for the complete unit shall be submitted in 03 (three) parts as under for registration purpose:</p> <p>d) Invoice for the Truck chassis with Driver's cabin.</p> <p>e) Invoice for the Data Harvesting & Charging cabin: It shall include the cost of fabrication, mounting, etc. of the Data Harvesting & Charging cabin.</p> <p>f) Invoice for entire onboard equipment / machineries and any</p>		

other items/accessories etc. permanently mounted on the Truck & its cost of mounting on Truck.

Note: *Vehicle Chassis Number & Engine Number shall be mentioned in invoice(s) against above Sl. No. (a), (b) & (c).*

Sale Certificate, Emission Certificate, Initial Road Worthiness Certificate in Form 21, 22 & 22(A) Part-I & Part-II, Temporary Registration Certificate as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India; 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).

Any supporting document(s) required from Oil India Limited (OIL) for issuance of aforementioned documents shall be provided by OIL. The place, code of the permanent registration shall be intimated in the nearer time in the event of the order.

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.

Any manuals/documents etc. supplied by the vehicle manufacturer.

Note:

The Truck shall be procured by the supplier (i.e. successful bidder) 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 (i.e. successful bidder) shall obtain the Invoice etc. from the vehicle dealer/manufacturer accordingly.

23 Delivery

(c) The fully built complete unit (Truck mounted Data Harvesting & Charging Cabin with Equipment) along with all documents etc. are to be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) without any defect by the supplier at their risk and cost as per the delivery period mentioned elsewhere in the tender document.

OIL reserves the right to inspect, test and if necessary, reject any part/parts after arrival of the vehicles at Duliajan, Assam-

			<p>786602 (India), if the said rejection is attributed to be the responsibility of the supplier. It shall, in no way be limited or waived by the reason that the units have been inspected, tested, and passed by OIL prior to dispatch.</p> <p>(d) Temporary Registration Certificate shall be arranged & supplied by the supplier (i.e. successful bidder) 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 complete unit.</p> <p>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.</p> <p>(e) The supplier (i.e. successful bidder) shall ensure that the vehicle shall be mobilized for delivery with all valid documents like Temporary Registration, Insurance as applicable, Driver's License (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.</p>		
24		VAHAN portal database, Permanent Registration & High Security Registration Plate (HSRP) Kit:	<p>The bidder/ supplier (i.e. successful bidder) 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 with 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). Cost of permanent registration shall be borne by Oil India Limited. On receipt of the government registration number, Oil India Limited shall inform the government registration number to the bidder/ supplier (i.e. successful bidder). The supplier (i.e. successful bidder) 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</p>		

		Plate (HSRP) Kit shall be borne by the bidder / supplier (i.e. successful bidder).		
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8.5

Data Harvesting & Charging Unit: The proposed cableless seismic data acquisition equipment should have the adequate no. of Rack mounted Data Harvesting device commensurate with our requirement of data harvesting and charging of at least 600 channels simultaneously. The system has to be offered with Field Data Management system comprising of LED monitor [size 24-inch flat screen (viewable or bigger)] capable of data archiving along with necessary hardware provided which should include following minimum parameters:

- (i) Internal storage capacity of 5TB or greater with minimum RAID 5 configuration or better.
- (ii) External Storage devices (NAS storage or equivalent) with minimum RAID 1 configuration or better and storage capacity of minimum 5TB or more - 01 no.
- (iii) Solid-State Drive (SSDs) for internal data storage.
- (iv) eSATA interface for writing data to delivery media.
- (v) Compatible with IBM3592 E7/LTO-IX or higher having both read & write capacity – 4 nos.
- (vi) Inventory Management of Ground Electronics and data as well as geophysical QC functions.
- (vii) The necessary interface, hardware, software, drivers, licenses, or dongle as may be required to copy the data recorded (SEG-Y and / or SEG-D De-multiplexed) on internal & external storage devices of data harvesting equipment, to IBM3592 E7/LTO-IX media provided along with the data harvesting unit.
- (viii) The necessary interface, software, drivers, licenses, or dongle as may be required for harvesting of acquired seismic and navigational data/sorting of data/merging navigational data with raw seismic file and display the shot gathers/writing should be provided.

9.0

BATTERY CHARGER SPECIFICATION:
The following criterion has to be followed for the battery chargers.

- Input Power - (220/230 VAC, 50 Hz) or suitable for power requirement of battery chargers & data harvesting devices.
- Charging status display to be provided along with the battery charger.

Note: (i) *Irrespective of the specification/detail requirement given herewith vendor should ensure that the data harvesting system is fully operational for data harvesting for at least 600 channels at a time. If any additions items required for this bidder should quote/provide the same.*

(ii) *The power requirement input for this cabin shall be provided by skid mounted genset in order to ensure smooth functioning of both the data harvesting device and the battery chargers as mentioned in Section – IC Clause no. 10 (i).*

SECTION- IC: GENERATOR SETS

<p>10.0</p>	<p>Generator (4 nos.) - Total 04 (four) nos. of Suitable 4 stroke single Phase AC silent power generators (diesel) 220/230 VAC, 50HZ + 1HZ based power system to operate all the equipment & peripherals, Air Conditioners, and all the other cabin accessories, as applicable. The generators should preferably be of Indian origin. The generator set should be environmentally compliant.</p> <p>i. First Generating Set - One (01) no. genset (30KVA-specification given in Annexure – (IC) 2) should be skid mounted to cater to the power requirement of entire data harvesting unit and battery charging device.</p> <p>ii. Second Generating Set - One (01) no. Standby genset (30KVA-specification given in Annexure – (IC) 2) should be skid mounted to cater to the power requirement of entire data harvesting unit and battery charging devices.</p> <p>iii. Third Generating Set – One (01) no. genset (7.5 KVA-specification given in Annexure – (IC) 1) mounted on Truck containing Recorder Cabin to cater to the power requirement of Recording equipment inside the Recording Cabin as detailed in (Section – IE, item 13.1).</p> <p>iv. Fourth Generating Set - One (01) no. genset (7.5 KVA-specification given in Annexure – (IC) 1) mounted on Utility Vehicle detailed in [Section – IC, item 10.1], for Standby purpose to cater to the power requirement of Recording equipment inside the Recording Cabin as detailed in (Section – IE, item 13.1).</p>					
<p>10.1</p>	<p>Utility vehicle for One (1) nos. (for Genset)</p>					
<p>10.1.1</p>	<p>The utility vehicle should accommodate the Fourth Generating set [Section – IC, item 10.0 (iv)]. The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories; safety features etc. and shall be built completely in all respects without requiring any further fitment/modification on delivery to Oil India Limited by the supplier</p>					
<p>10.1.2</p>	<p>Mounting of the Genset the utility chassis is responsibility of the supplier: 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.</p>					
<p>10.1.3</p>	<p>The Utility vehicle shall have the following specifications:</p> <table border="1" data-bbox="264 1281 1444 1445"> <tr> <td data-bbox="264 1281 349 1445">1</td> <td data-bbox="349 1281 651 1445">Month & Year of manufacture; Make</td> <td data-bbox="651 1281 1444 1445">Brand new Utility Vehicle (such as Tata Yodha/Bolero Maxx Pickup/Bolero Camper or equivalent) with load body of any vehicle manufacturer of India, procured after the date of issuance of Purchase Order (PO) /Letter of Intent (LOI)/ Letter of Award (LOA) and meeting the specifications as mentioned in the Tender.</td> </tr> </table>	1	Month & Year of manufacture; Make	Brand new Utility Vehicle (such as Tata Yodha/Bolero Maxx Pickup/Bolero Camper or equivalent) with load body of any vehicle manufacturer of India, procured after the date of issuance of Purchase Order (PO) /Letter of Intent (LOI)/ Letter of Award (LOA) and meeting the specifications as mentioned in the Tender.		
1	Month & Year of manufacture; Make	Brand new Utility Vehicle (such as Tata Yodha/Bolero Maxx Pickup/Bolero Camper or equivalent) with load body of any vehicle manufacturer of India, procured after the date of issuance of Purchase Order (PO) /Letter of Intent (LOI)/ Letter of Award (LOA) and meeting the specifications as mentioned in the Tender.				

		The bidder shall mention the make & model of the offered Utility Vehicle in technical bid including all other requisite specifications.
2	GVW	Not more than 4500 kg.
3	Wheelbase	In the range of 3000 mm to 4000 mm.
4	Engine	Water cooled Diesel fuel engine of adequate power and torque. Air cooled engine is not acceptable.
5	Emission Norms	Bharat Stage – VI (BS VI) OBD Stage II. Shall also comply Real Drive Emissions (RDE) using Portable Emissions Measurement System (PEMS) requirements. The bidder shall mention the emission norms of the offered vehicle in the technical bid.
6	Steering	Power assisted and Right-Hand Steering (i.e., Steering wheel shall be on the right-hand side inside the Driver’s cabin when viewed from the rear of the vehicle). Unit with left hand steering is not acceptable.
7	Gearbox	Minimum 5 forward speed & 1 reverse speed.
8	Brake	Air or Hydraulic power assisted foot operated Brake with Antilock Braking System and suitable hand operated Parking Brake.
9	Drive	4 x 2 Drive, Rear Axle Drive.
10	Axles	Power assisted and Right-Hand Steering (i.e., Steering wheel shall be on the right-hand side inside the Driver’s cabin when viewed from the rear of the vehicle). Unit with left hand steering is not acceptable.
11	Suspension (Front and Rear)	As per the Utility Vehicle manufacturer.
12	Wheels & Tyres	Front- Total 02 Nos. Rear – Total 02 Nos. Spare – Spare – To be supplied. Along with suitable mounting arrangement facility for spare wheel shall be provided.
13	Fuel Tank & Diesel Exhaust Fluid (DEF) Tank	As per Utility vehicle manufacturer.
14	Speed Limiting Device (SLD)	To be provided with valid certification as per Indian Motor Vehicle Rules as applicable in the state of Assam (India).
15	Vehicle Location Tracking Device/GPS and Emergency Button	To be provided with valid certification as per Indian Motor Vehicle Act/Rules as applicable in the state of Assam (India).

16

Fitments & accessories:

Following fitments & accessories shall be fitted in the Utility vehicle:

- a. All standard fittings, accessories, standard gauges, and meters as per Indian Motor Vehicle Act/Rules shall be fitted. The Speedometer & the Odometer shall be with Metric KM calibration system only.
- b. Rear view mirrors at both sides of the driver's cabin, horn, driver cabin lamps, head lamps, parking lamps, tail lamps, direction indicator lamps, stop lamps, fog lamps, windscreen wipers, first aid box, floor mats, footsteps, grab rail, mud flaps/guards, fire extinguisher etc. shall be fitted in the vehicle.
- c. 01 (one) number spare wheel assembly shall be supplied in the vehicle.
- d. Suitable towing provision/attachment at Front and Rear of vehicle.
- e. 01 set of Jack with Handle and Wheel Wrench with Lever shall be supplied along with the 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 the vehicle.
- f. Suitable electrical Master Switch to disengage all electrical circuits from battery, Well-covered Battery Box shall be fitted in each unit.
- g. Wherever feasible, Bumpers, side under run protection device (SUPD)s, rear under run protection device (RUPD), front under run protection device (FUPD) are to be fitted.
- h. To fix retro reflective on the front, rear and both side of the complete unit as per the colour code- Front: White, Rear: Red and Sides: Yellow.
- i. Audible alarm to sound while the vehicle is put in reverse gear.
- j. Suitable Spark Arrestor in the engine exhaust. The Spark Arrestor may be additional attachment to be fitted with the exhaust or chassis inbuilt mechanism.

17	Driver's cabin	<p>Originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle, complete with all standard fittings and accessories without requiring any subsequent fabrication job in it.</p> <p>Seating capacity minimum 02 (two) Nos. including Driver and containing Driver's seat, Co-passenger's seat, steering wheel, all controls, instruments, and other devices necessary for driving or operating the vehicle.</p>		
18	Load body and platform	<p>Steel platform, originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle.</p> <p>Note: While selecting the vehicle, bidder to note that the load body accommodates the Generating Set under [Section – IC, item 10.0 (iv)], offered by the bidder as specified in the tender.</p>		
19	Credential of body builder responsible for mounting of Genset.	<p>The entire design, fabrication and mounting etc. shall be done by any of reputed body builder approved by Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc.</p> <p>Details of body builder with valid certification from Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc. is to be submitted along with technical bid by the bidder.</p>		
20	Drawing	<p>In addition to submission of technical brochure/leaflet of the offered Utility Vehicle with load body, the bidder shall also submit the following along with the technical bid:</p> <ul style="list-style-type: none"> (i) Mounting details of the generating set from the reputed workshop/fabricator etc. (ii) Dimensions (length, width & height) & weight of the generating set. <p>Also, the prospective supplier shall have to submit final detailed dimensional drawings along with detailed mounting and material construction from the fabricator within 30 (thirty) days from the date of OIL's purchase order before mounting the generating set etc. on</p>		

		factory built (i.e., originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle) load body. The same should be prepared based on order specification & OIL's requirement.		
21	Notes	<p>(d) In case any of spares, fittings/accessories etc. as mentioned in the tender does not come along with the vehicle as standard spares, fittings/accessories from the vehicle manufacturer, the supplier shall procure the same and fit the same prior to delivery of the vehicle without any extra cost to Oil India Limited.</p> <p>(e) Suitable Gap as per standard between the Utility Vehicle driver's cabin and the rear equipment / machineries shall be provided.</p> <p>(f) Extension of the original chassis/load body by welding/ bolting or by any other means to accommodate the Generating Set on the Truck is not acceptable.</p>		
22	Documents/literatures to be submitted along with the supply:	<p>The following documents/literatures shall be submitted for each vehicle along with the supply by the supplier and cost in this regard, if any, shall be borne by the supplier:</p> <p>Invoice(s) in original.</p> <p>Notwithstanding any clause mentioned elsewhere in the NIT/tender, the invoice(s) for the complete unit shall be submitted in 02 (two) parts as under for registration purpose:</p> <p>a) Invoice for the Utility Truck chassis with Driver's cabin.</p> <p>b) Invoice for the Generating Set and its mounting: It shall include the cost of fabrication, mounting, etc. of the Data Harvesting & Charging cabin</p> <p>Note: <i>Vehicle Chassis Number & Engine Number shall be mentioned in invoice(s) against above Sl. No. (a) & (b).</i></p> <p>Sale Certificate, Emission Certificate, Initial Road Worthiness Certificate in Form 21, 22 & 22(A) Part-I & Part-II, Temporary Registration Certificate as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India; 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).</p>		

			<p>Any supporting document(s) required from Oil India Limited (OIL) for issuance of aforementioned documents shall be provided by OIL. The place, code of the permanent registration shall be intimated in the nearer time in the event of the order.</p> <p>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.</p> <p>Any manuals/documents etc. supplied by the vehicle manufacturer.</p> <p>Note: <i>The Truck shall be procured by the supplier (i.e. successful bidder) 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 (i.e. successful bidder) shall obtain the Invoice etc. from the vehicle dealer/manufacturer accordingly.</i></p>		
	23	Delivery	<p>(d) The fully built complete unit (Utility Vehicle mounted Generating Set) along with all documents etc. are to be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) without any defect by the supplier at their risk and cost as per the delivery period mentioned elsewhere in the tender document.</p> <p>OIL reserves the right to inspect, test and if necessary, reject any part/parts after arrival of the vehicles at Duliajan, Assam-786602 (India), if the said rejection is attributed to be the responsibility of the supplier. It shall, in no way be limited or waived by the reason that the units have been inspected, tested, and passed by OIL prior to dispatch.</p> <p>(e) Temporary Registration Certificate shall be arranged & supplied by the supplier (i.e. successful bidder) 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 complete unit.</p> <p>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</p>		

		intimated nearer the time.		
		(f) The supplier (i.e. successful bidder) shall ensure that the vehicle shall be mobilized for delivery with all valid documents like Temporary Registration, Insurance as applicable, Driver's License (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.		
24	VAHAN portal database, Permanent Registration & High Security Registration Plate (HSRP) Kit:	The bidder/ supplier (i.e. successful bidder) 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). Cost of permanent registration shall be borne by Oil India Limited. On receipt of the government registration number, Oil India Limited shall inform the government registration number to the bidder/ supplier (i.e. successful bidder). The supplier (i.e. successful bidder) 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 (i.e. successful bidder).		

ANNEXURE - (IC) 1: TECHNICAL SPECIFICATIONS FOR 7.5kVA SILENT DIESEL ENGINE DRIVEN GENERATING SET

Clause/Description	Specification		
I/ General	Diesel Generating set of capacity 7.5 kVA, single phase, 230 volts, 50 Hz, 0.8 Power Factor, complete with Diesel Engine (@1500 rpm), Alternator, Electric Control Panel and Acoustic Enclosure conforming to the specifications given below. Diesel engine and alternator shall be closely coupled (as per manufacturer's standard) and mounted on a base plate of robust in construction.		
II/ Statutory Norms	1) <u>Engine:</u> 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) - section 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government (Govt. of India) and subsequent notifications as applicable.		
	The offered Engine of the DG set should have valid Conformity of Production Verification for Emission		

	Compliance from Certification Agencies as per latest CPCBIV+ notification. A copy of the same has to be furnished along with the offer.		
	<p>2) <u>Acoustic Enclosure (Canopy) :</u></p> <p>(i) 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 CPCBIV+ 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)].</p>		
	(ii) The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCBIV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer.		
	<p>(iii) The bidder must confirm the following in their bid, failing which their bid shall be rejected:</p> <p>(a) In the event of any new CPCBIV+ norms/regulations governing Diesel Engine driven Generating set are made effective prior to delivery of the Set (but after bid closing date) the supplied DG set shall comply with the latest CPCBIV+ norms/regulations.</p> <p>(b) The compliance report from Govt. approved agencies, if any, must be submitted prior to dispatch of the Generating set for OIL's scrutiny and acceptance.</p>		
III/ Prime mover (Diesel Engine)	<p>1) <u>General Site Conditions:</u></p> <p>(i) Maximum Temperature: 45°C, Minimum Temperature: 5°C (ii) Maximum Relative Humidity at 21°C: 100 %, at 35 °C: 95 %, at 41 °C: 70% (iii) Maximum Altitude above mean Sea Level: 150M</p>		
	<p>2) <u>Governing Standards:</u></p> <p>(i) Engine: IS: 10001/BS: 5514or applicable standard. (ii) Governing: Class A-1 specifications of IS: 10000 / BS: 5514. OR Governing class (As per ISO 8528 Part-V).</p>		
	3) <u>Make of engine:</u> To be specified by bidder.		
	4) <u>Model of engine:</u> To be specified by bidder.		
	5) <u>Duty:</u> To be specified by bidder.		
	6) <u>RPM:</u> 1500		
	7) <u>Fuel:</u> HSD: IS 1460 (latest edition)		
	8) <u>Start:</u> Electric Start		
	9) <u>Cycle:</u> Four Stroke		

10) Cylinder: Multi cylinder (Bidder to specify number of cylinders of the offered engine)		
11) Engine Arrangement: Vertical, Inline/V Engine		
12) Compression Ratio: <i>To be specified by bidder.</i>		
13) Size (bore & stroke): <i>To be specified by bidder.</i>		
14) Displacement: <i>To be specified by bidder.</i>		
15) Aspiration: Naturally Aspirated or Turbocharged.		
16) Engine Cooling System: Water or Air		
17) Gross HP at 1500 RPM: <i>To be specified by bidder.</i>		
18) HP Deductions: (Please specify the considered deductions)		
19) Net Minimum Available Horsepower: Engine should be able to develop power required for driving a generating set of 7.5 kVA rated for Prime Duty at 1500 rpm (Output available with varying load for an unlimited time) with an overload capacity of 10% for a period not exceeding One Hour in any 12 hours running when running at 1500 or 1500 R.P.M. The Supplier should mention the NET available power for Gen set for Prime duty application.		
20) Power for Prime Duty: 7.5 kVA (Output available with varying load for an unlimited time). The engine shall be capable of delivering the rated output without undue heating of the engine or any other mechanical trouble, as per site conditions given at (1) above.		
21) Specific Fuel Consumption at: 100% Load 75% Load 50% Load		
22) Lube Oil Consumption (LT/HR):		
23) Air Intake System: Type of Air cleaner of the offered engine to be furnished.		
24) Starting System: The Starting System should have an electric starting system comprising of Maintenance Free Lead – Acid Batteries with 90/150/180 AH Capacity of Reputed Make, Engine mounted Battery charging Alternator (preferably of Make: LUCAS TVS), 12 Volt Starter (preferably of Make: LUCAS TVS/ DELCO REMY).		
25) Engine Exhaust System: The Exhaust System should comprise of: Exhaust Manifold, Stainless steel Exhaust Flexible connection, Exhaust Silencer, Spark Arrestor and associated Piping connections with proper clamping arrangement with all exposed parts properly insulated.		
26) Fuel System: The Fuel System should comprise of an inline fuel pump with mechanical Governor, Fuel Injectors, replaceable Fuel Filters and fuel level indicator. Fuel Tank should be integrated inside the acoustic enclosure with drain valve, and inlet & outlet connection. The fuel tank should have maximum capacity of 990L or 8 hours of continuous running at full load of DG set, whichever is lower.		
27) 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.		
28) Gauges and Instruments:		
The Engine instrument Panel should include the following: i. Lubricating oil pressure gauge		

	ii. Water temperature gauge		
	iii. Lube oil temperature gauge		
	iv. Starting Switch		
	v. Digital/Mechanical Tachometer and Hour Meter		
	vi. Ammeter / Battery Charging Indicator		
	vii. Engine Low Lube Oil Pressure indication display red lamp		
	viii. Engine Over Temperature / Cooling System Failure indication display red lamp		
	ix. Emergency Stop Switch (Mounted on exterior of the Acoustic Canopy)		
	NB: All the Gauges and Instruments should be easily visible from outside of the Acoustic Enclosure/ Canopy.		
	29) Engine Safety Controls: The following Safety shut off/trip system should be incorporated to Shut Down the Engine in the event of:		
	i. Low Lubricating oil pressure.		
	ii. Engine over speed.		
	iii. Engine over Temperature / Cooling System Failure.		
	NB: The Safety shut off/trip system should indicated the type of trip in case of activation and also should have an audible alarm/ hooter to indicate Tripping of the Engine.		
	30) Other Features should be as under:		
	i. Flywheel		
	ii. Flexible Coupling		
	iii. Lifting eyes		
	iv. Standard Guards over Belt Drives (Blower Fan Drive, charging, Alternator drives pulley and flexible coupling)		
	v. Standard Painting		
	vi. SAE standard rotation		
	31) The engine of the offered DG Set should have the following:		
	i. A proven track record for DG Set applications in Central/State PSUs or Central/State Govt. Organizations of India or any other Public Limited Company. Relevant documentary evidence in this regard to be furnished.		
	ii. It should also have logged minimum successful 6000 hours of running or should have completed one year of successful running from its date of commissioning in the last 5 years prior to the bid closing date of this tender. Satisfactory performance certificate from end user in this regard to be furnished.		
IV/ Acoustic enclosure	The generating set comprising of engine coupled with alternator, control panel etc. for each set should be placed inside an acoustic enclosure having the following salient features:		
	1) 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 with must be 75 dB(A) at 1 meter away from the enclosure surface and must conform to the latest CPCBIV+ norms [G.S.R. 771(E)]. – The emission limit of the Diesel engine of the generating set must comply with the latest CPCBIV+ norms 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.		
2)	The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCBIV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer. [Certification agencies/Authorized 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].		
3)	The acoustic enclosure should be modular type. This should facilitate easy assembling/dismantling		
4)	The temperature of exhaust line should not exceed the self-ignition temperature of fuel. A high temperature trip system (to shut down the engine by cutting off fuel supply to the engine through the solenoid valve) with variable setting connected to a thermostatically controlled blower must be provided for eliminating excessive heat dissipated by the engine within the acoustic enclosure.		
5)	The enclosure should have the sufficient space in and around the generating set to facilitate maintenance and operation of the set.		
6)	Acoustic Enclosure's base frame should incorporate necessary facilities for handling and inter location transfer through oil field trucks.		
7)	The canopy should be finished in synthetic enamel paint incorporating rust inhibitors and aluminium sprayed silencers and spark arrestors to guarantee a superior and long-lasting finish.		
8)	Exhaust silencer shall have to be provided of the size as recommended by the manufacturer and shall attenuate the sound to the level noted above. It shall be supplied with a flexible, seamless, stainless steel exhaust connection as well as with all internal pipe work and suitably designed Spark Arrestor.		
9)	The acoustic enclosure with skid should also incorporate:		
	(a) Locking arrangement (Provision for fitting external lock and key)		
	(b) Lifting arrangement for entire skid/gen set with enclosure.		
	(c) Draining arrangement for fuel and lube oil.		
	(d) Air breather.		
	(e) Hood for rain protection.		
	(f) Emergency stop button.		
	(g) Panel meter viewing window.		
V/ Skid / base frame (for the DG set)	The engine and alternator are to be close coupled and both be mounted on a suitably designed skid as a base frame fitted with requisite number of suitably designed Anti Vibration Mountings (AVM) for making the DG set vibration free.		
VI/	1. Bidder should have to confirm the availability of all the spares for the complete Gen Sets for minimum		

Spare parts	10 years from the date of delivery of materials.		
	2. Spares for two years normal operation in addition to the normal commissioning spares and consumables of the generating set should be provided in the bid, however the price of these spares (<i>Spares for two years normal operation</i>) shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the package. Item wise breakdown price of these spares should also be provided as under - NOTE FOR SUBMISSION OF SPARE PRICE LIST: <i>The price of Spares for two years normal operation shall be provided separately as pdf. document under "Financial Documents" while submitting the Price Bids in GeM Portal. <u>The price of these spares shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the package. Also please note that NO PRICE should be mentioned in the TECHNICAL BID.</u></i>		
	3. The following items shall have to be offered as MANDATORY SPARES and to be supplied along with the complete package (<i>The cost of the same to be included in the equipment cost</i>):		
	(a) Engine Spares:		
	i. Fuel filter - 06 nos. (per genset)		
	ii. Lube oil filter - 06 nos. (per genset)		
	iii. Air filter- 06 nos. (per genset)		
	iv. Complete Set of Belts – 04 Sets (per genset)		
	v. Lube Oil for initial filling (per genset)		
	VII/ Documents to be attached with the final shipment (for the DG set)	The following documents [at least 03 bound sets (if not specified otherwise hereunder)] are to be separately packed and forwarded to HoD- GEOPHYSICS DEPT, OIL INDIA LIMITED, DULIAJAN- 786602, ASSAM , clearly indicating the OIL's Purchase order no and the description.	
1. COMPOSITE OPERATING INSTRUCTIONS- with description and illustration of all switchgear controls and indicators and engine and generator controls. <i>Draft copy of the same to be submitted to OIL's inspection team during the time of pre-dispatch inspection for approval.</i>			
2. PARTS BOOKS - that illustrate and list all assemblies, subassemblies and components.			
3. PREVENTIVE MAINTENANCE INSTRUCTIONS - on the complete system that cover daily, weekly, monthly, biannual, and annual maintenance requirements and include a complete lubrication chart.			
4. ROUTINE TEST PROCEDURES - for all electronic and electrical circuits and for the main AC generator.			
5. TROUBLESHOOTING CHART - covering the complete generator set showing description of trouble, probable cause and suggested remedy.			
6. RECOMMENDED SPARE PARTS LIST - showing all consumables anticipated to be required during routine maintenance and test.			
7. Warranty documents, test certificates, requisite certificates as specified, and all other relevant documents specified in OIL's purchase order.			
8. Three (03) sets of following documents shall be submitted in bound form along with the supply of the genset (s):			
i. GA drawing			
ii. Scheme, layout plan of the unit showing all parts.			

	iii. Bill of materials of all components.		
	iv. Composite O&M manual of the generator covering all sub-systems.		
	v. Part Manual for Engine and Alternator.		
	vi. All test certificates for tests done at manufacturer's works		
	vii. List of recommended spares for two years including part nos. and descriptions.		

ELECTRICAL SPECIFICATIONS:

I/ Alternator	1. General Description: Brushless type alternator rated at 30 KVA 230 Volts, 0.8 PF, 50 Hz, 1500 rpm, Single Phase Voltage regulation of +/- 5% with class "F/H" insulation.		
	2. Make: Crompton Greaves/Stamford/Kirloskar/ Greaves/Leroy somer		
	3. Rated Output: 30 kVA		
	4. Enclosure: IP 23 (SPDP)		
	5. Earthing: Earthing of the machine shall be done in accordance with the relevant provisions of IS-3043:1992.		
	6. Rated Voltage: 230v +/- 5% Volts		
	7. Applicable standard: IS :13364 Part-2, 1992		
	8. Duty: Continuous		
	9. The Voltage output shall be maintained within 230V +/-5% and frequency at 50 +/-1 Hz at rated load. The voltage regulation from No load to full load shall be within 15%.		
	10. Excitation system: Brushless, self-excited, self-regulated with solid state AVR. The brushless Alternator shall have exciter and rotating rectifier-bridge mounted on shaft complete with diodes and surge suppressor, main field windings and stator windings.		
	11. Direction of rotation: Clockwise from DE		
	12. Automatic voltage regulator: Machine / Control Panel mounted		
	13. Voltage regulation: +/-1% with 4% prime mover speed variation, VR Grade VG1		
	14. Time to build up rated voltage: Shall be less than 5 seconds at rated RPM		
	15. Class of insulation: F/H		
	16. Cooling: IC 01, air cooled by integral fan		
	17. Wave form distortion (THD): Less than 3%		
	18. Overload capacity: 10% overload for 1 hr. once in 12 hrs.		
	19. No. of bearings: Single /Double		
	20. Lubrication type: Grease Lubricated		
	21. Generator output shall be terminated on a suitably rated 2 pole RCBO, with 30mA earth leakage protection.		
	22. Generator shall have provision for earthing at two separate points on the body/foot of the machine.		
	23. Control Panel: Sheet steel clad, self-supporting, floor mounting, cubicle type, dust and vermin proof generating set control panel made of 2mm thick MS CRCA sheet and built upon rigid framework of channels, beams as required, having front and rear hinged doors with danger plate fitted on both sides, lifting lugs on top, ventilation louvers on both sides, bottom detachable gland plates, double earthing studs on two sides, complete with suitably sized zinc passivated hard wares with heavy plain and spring		

washers.

All cable entry shall be from bottom side. Removable gland plates shall be provided for all cables.

The genset shall have integrated panel with the following accessories:

- Voltmeter: 1 no.
- Frequency meter: 1 no.
- Ammeter: 1 no. with CT.
- 1 no. Digital multifunction meter indicating Voltage (V), Current(A), Frequency (Hz), Power factor(pf), Active Power (KW), Reactive Power (KVAR), Energy(KWH), Maximum Demand (MD)
- LED indication of incoming power
- Emergency off push button
- The electrical connection between the alternator and control panel shall be through copper cables.
- Potential circuit wiring of the control system shall be done with 1.5 sq mm, flexible copper, 1100V grade PVC insulated wires approved by ISI, TAC, FIA.
- Potential circuit wiring of the control system shall be done with 1.5 sq mm, flexible copper, 1100V grade PVC insulated wires approved by ISI, TAC, FIA.
- One no. Double Pole RCBO of suitable rating with breaking
- Capacity minimum 19KA along with suitable rating Fuse shall be provided to protect the alternator in case of short circuit.
- Separate TB shall be provided for all interconnection cables between control panel and engine.

Ferrules shall be provided for identification of cables. All components shall be labeled for identification.

24. Generating set shall be capable to operate satisfactorily under the following site conditions: (a) Altitude: Height above sea level not exceeding 150 meters. At other site conditions derating shall apply as per IS:7347-1974. (b) Ambient temp: Ambient temp. at operating site does not exceed 45-degree C.		
25. The battery and battery charging unit of suitable rating should be provided, duly mounted on genset with fuse protection system.		
26. Safety features:		
a) Protection for under voltage and over voltage with engine shut off.		
b) Over frequency and under frequency monitoring and protection with engine shut off.		
c) Overload protection with engine shut off.		
d) Earth leakage protection of 30mA.		
27. Rating plate: The rating plate shall be marked with the following information:		
a) Name of the manufacturer.		

	b) Manufacturer's number and frame reference.		
	c) Frequency, number of phase.		
	d) Rated output in KVA.		
	e) Rated voltage and current.		
	f) Power factor.		
	g) Type of duty.		
	h) Speed, in revolution per minute.		
	i) Excitation and voltage at rated output		
	j) Class of insulation and additional information if any.		
II/ GENERAL NOTES:	1) A tool set for maintenance and simple repair and including a Clampmeter shall be part of the delivery.		
	2) The bidder shall guarantee the offered item for a minimum period of 12 (twelve) months from the date of commissioning/ suitability of the item. Valid guarantee certificate, in this regard, shall be submitted along with the delivery of the item.		
	3) Following spares shall be supplied by the party along with package. 1. AVR Unit for Alternator- One no. per Gen Set. 2. Rotating rectifier assembly fitted with complete set of forward and reverse diodes- One set per Gen set.		
	4) Operation and technical manuals related to the type and model of the generator shall be part of the delivery.		
III/DOCUMENTS SUBMITTED ALONG WITH THE OFFER:			
1	i. Technical datasheet of the alternator.		
	ii. Type test certificate as per IS 13364(2) of a 30kVa alternator of the same make and model as offered.		
	iii. Power & control wiring diagram of control panel.		
	iv. Confirmation/declaration that the offered panels shall conform to all the points of the tender. Any deviation from the tender specs must be clearly mentioned with technical justifications.		
	v. Confirmation/declaration to submit guarantee certificate at the time of supply for both alternator and the control panel for a period of minimum 12 months from the date of commissioning.		
2	After placement of PO and before manufacturing: Following documents shall be submitted for approval of OIL after placement of PO and the vendor shall proceed for manufacturing of the alternator and panel after the approval of the same:		
	Dimensional drawing, schematics and layout of the alternator and the control panel(s) inside the acoustic enclosure.		
	i. GA drawing and Single line diagram of the Control Panel(s)		
	ii. Detailed power & control wiring diagram, detailed enclosure drawings for control panel, earthing		
	iii. Scheme, layout plan of the unit showing all parts.		
	iv. Details of power cables, control cable and their routes.		
v. Bill of material of the component of the control panel(s).			
3	At the time of delivery:		
	i. Type Test certificate as per IS 13364(2) for the generating set, control panel and complete unit.		
	ii. 3 sets of as built GA and single line diagram of the Control panel(s)		

	iii. 3 sets of Operation, Maintenance and troubleshooting manual of the alternator.		
	iv. Guarantee certificate for both alternator and the control panel for a period of minimum 12 months from the date of commissioning.		
	Inspection and Testing		
	<p>1) The complete unit of engine and alternator along with control panel shall be inspected and tested at manufacturer's works / factory by a team of OIL's Engineers prior to dispatch. The party will arrange the requisites for the test run of the unit at their cost. Intimation for inspection of complete unit must be sent to OIL at least 30 days in advance.</p> <p>Any modification suggested during inspection shall be carried out by supplier at no additional cost. Supplier shall affect dispatch of the unit to OIL, Duliajan, only on receipt of OIL's dispatch advice.</p> <p>Inspection/testing charges, if any, shall be included in the quoted price which shall be considered for evaluation of the offers. To and fro fares, boarding/lodging and other en-route expenses of OIL's Inspection team for carrying our inspection shall be borne by OIL.</p>		
	2) During inspection each DG set will be tested at various loads including 10% overload for a period of 1 Hour during a testing period of not less than 4 hours in presence of OIL's Engineers and the performance parameters recorded should be within the figure/range given for the offered units. The DG set should be capable of running at full load conditions for about an hour after the overload test.		
	3) A draft copy of Composite Operating Instructions of the complete Generator Set with description and illustration of all switchgear controls and indicators and engine and generator controls shall have to be submitted to OIL's inspection team during the time of pre-dispatch inspection for approval. The approved copy to be supplied along with the Documents as detailed in the table above.		
	<p>Responsibility</p> <p>The responsibility for performance to the specifications shall not be divided among individual component manufacturers but must be assumed solely by the supplier. This includes generating system design, manufacture, test, and having a local supplier responsible for service, parts and warranty for the total system</p>		
	<p>Service and warranty:</p> <p>1) The manufacturer shall have a local (placed in Assam) authorized dealer who can provide factory trained servicemen, the required stock of replacement parts, technical assistance, and warranty administration.</p> <p>2) The warranty period for the Genset and ancillary equipment should be a minimum of 12 months from the date of commissioning of the equipment. Any defects in the Engine or Alternator during warranty period shall be replaced by the supplier at his cost without any extra charge to OIL.</p> <p>3) The bidder should confirm that spares will be available, and provisioning of spares can be continued for the next 10 years.</p>		

ANNEXURE – (IC) 2: TECHNICAL SPECIFICATIONS FOR 30 kVA SILENT DIESEL ENGINE DRIVEN GENERATING SET

Clause/ Description	Specification		
I/ General	Diesel Generating set of capacity 30 kVA, single phase, 230 volts, 50 Hz, 0.8 Power Factor, complete with Diesel Engine (@1500 rpm), Alternator, Electric Control Panel and Acoustic Enclosure conforming to the specifications given below. Diesel engine and alternator shall be closely coupled (as per manufacturer's standard) and mounted on a base plate of robust in construction.		
II/ Statutory Norms	<p>1) Engine: 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)- section 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government (Govt. of India) and subsequent notifications as applicable.</p>		
	The offered Engine of the DG set should have valid Conformity of Production Verification for Emission Compliance from Certification Agencies as per latest CPCBIV+ notification. A copy of the same has to be furnished along with the offer.		
	<p>2) Acoustic Enclosure (Canopy):</p> <p>(i) 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 CPCBIV+ 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].</p>		
	(ii) The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCBIV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer.		
	<p>(iii) The bidder must confirm the following in their bid, failing which their bid shall be rejected:</p> <p>(a) In the event of any new CPCBIV+ norms/regulations governing Diesel Engine driven Generating set are made effective prior to delivery of the Set (but after bid closing date) the supplied DG set shall comply with the latest CPCBIV+ norms/regulations.</p> <p>(b) The compliance report from Govt. approved agencies, if any, must be submitted prior to dispatch of the Generating set for OIL's scrutiny and acceptance.</p>		
III/ Prime mover (Diesel Engine)	<p>1) General Site Conditions:</p> <p>(i) Maximum Temperature: 45°C, Minimum Temperature: 5°C</p> <p>(ii) Maximum Relative Humidity at 21°C: 100 %, at 35 °C: 95 %, at 41 °C: 70%</p> <p>(iii) Maximum Altitude above mean Sea Level: 150M</p>		
	<p>2) Governing Standards:</p> <p>Engine: IS: 10001/BS: 5514 or applicable standard. (ii) Governing: Class A-1 specifications of IS: 10000 / BS: 5514. OR Governing class (As per ISO 8528 Part-V).</p>		

3) Make of engine: <i>To be specified by bidder.</i>		
4) Model of engine: <i>To be specified by bidder.</i>		
5) Duty: <i>To be specified by bidder.</i>		
6) RPM: 1500		
7) Fuel: HSD: IS 1460 (latest edition)		
8) Start: Electric Start		
9) Cycle: Four Stroke		
10) Cylinder: Multi cylinder (Bidder to specify number of cylinders of the offered engine)		
11) Engine Arrangement: Vertical, Inline/V Engine		
12) Compression Ratio: <i>To be specified by bidder.</i>		
13) Size (bore & stroke): <i>To be specified by bidder.</i>		
14) Displacement: <i>To be specified by bidder.</i>		
15) Aspiration: Naturally Aspirated or Turbocharged.		
16) Engine Cooling System: Water or Air		
17) Gross HP at 1500 RPM: <i>To be specified by bidder.</i>		
18) HP Deductions: (Please specify the considered deductions)		
19) Net Minimum Available Horsepower: Engine should be able to develop power required for driving a generating set of 30 kVA rated for Prime Duty at 1500 rpm (Output available with varying load for an unlimited time) with an overload capacity of 10% for a period not exceeding One Hour in any 12 hours running when running at 1500 or 1500 R.P.M. The Supplier should mention the NET available power for Gen set for Prime duty application.		
20) Power for Prime Duty: 30 kVA (Output available with varying load for an unlimited time). The engine shall be capable of delivering the rated output without undue heating of the engine or any other mechanical trouble, as per site conditions given at (1) above.		
21) Specific Fuel Consumption at: 100% Load 75% Load 50% Load		
22) Lube Oil Consumption (LT/HR):		
23) Air Intake System: Type of Air cleaner of the offered engine to be furnished.		
24) Starting System: The Starting System should have an electric starting system comprising of Maintenance Free Lead – Acid Batteries with 90/150/180 AH Capacity of Reputed Make, Engine mounted Battery charging Alternator (preferably of Make: LUCAS TVS), 12 Volt Starter (preferably of Make: LUCAS TVS/ DELCO REMY).		
25) Engine Exhaust System: The Exhaust System should comprise of: Exhaust Manifold, Stainless steel Exhaust Flexible connection, Exhaust Silencer, Spark Arrestor and associated Piping connections with proper clamping arrangement with all exposed parts properly insulated.		
26) Fuel System: The Fuel System should comprise of an inline fuel pump with mechanical Governor, Fuel Injectors, replaceable Fuel Filters and fuel level indicator. Fuel Tank should be integrated inside the acoustic enclosure with drain valve, and inlet & outlet connection. The fuel tank should have maximum		

	capacity of 990L or 8 hours of continuous running at full load of DG set, whichever is lower.		
27)	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.		
28)	Gauges and Instruments:		
	The Engine instrument Panel should include the following:		
	i. Lubricating oil pressure gauge		
	ii. Water temperature gauge		
	iii. Lube oil temperature gauge		
	iv. Starting Switch		
	v. Digital/Mechanical Tachometer and Hour Meter		
	vi. Ammeter / Battery Charging Indicator		
	vii. Engine Low Lube Oil Pressure indication display red lamp		
	viii. Engine Over Temperature / Cooling System Failure indication display red lamp		
	ix. Emergency Stop Switch (Mounted on exterior of the Acoustic Canopy)		
	NB: All the Gauges and Instruments should be easily visible from outside of the Acoustic Enclosure/ Canopy.		
29)	Engine Safety Controls: The following Safety shut off/trip system should be incorporated to Shut Down the Engine in the event of:		
	i. Low Lubricating oil pressure.		
	ii. Engine over speed.		
	iii. Engine over Temperature / Cooling System Failure.		
	NB: The Safety shut off/trip system should indicated the type of trip in case of activation and also should have an audible alarm/ hooter to indicate Tripping of the Engine.		
30)	Other Features should be as under:		
	i. Flywheel		
	ii. Flexible Coupling		
	iii. Lifting eyes		
	iv. Standard Guards over Belt Drives (Blower Fan Drive, charging, Alternator drives pulley and flexible coupling)		
	v. Standard Painting		
	vi. SAE standard rotation		
31)	The engine of the offered DG Set should have the following:		
	(i) A proven track record for DG Set applications in Central/State PSUs or Central/State Govt. Organizations of India or any other Public Limited Company. Relevant documentary evidence in this regard to be furnished.		
	(ii) It should also have logged minimum successful 6000 hours of running or should have completed one year of successful running from its date of commissioning in the last 5 years prior to the bid closing date of this tender. Satisfactory performance certificate from end user in this regard to be furnished.		
IV/	The generating set comprising of engine coupled with alternator, control panel etc. for each set should be		

Acoustic enclosure	placed inside an acoustic enclosure having the following salient features:		
	(1) 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 with must be 75 dB(A) at 1 meter away from the enclosure surface and must conform to the latest CPCBIV+ norms [G.S.R. 771(E). – The emission limit of the Diesel engine of the generating set must comply with the latest CPCBIV+ norms 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.		
	(2) The offered DG set should have valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCBIV+ notification for Noise Limit. A copy of the same has to be furnished along with the offer. [Certification agencies/Authorized 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].		
	(3) The acoustic enclosure should be modular type. This should facilitate easy assembling/dismantling		
	(4) The temperature of exhaust line should not exceed the self-ignition temperature of fuel. A high temperature trip system (to shut down the engine by cutting off fuel supply to the engine through the solenoid valve) with variable setting connected to a thermostatically controlled blower must be provided for eliminating excessive heat dissipated by the engine within the acoustic enclosure.		
	(5) The enclosure should have the sufficient space in and around the generating set to facilitate maintenance and operation of the set		
	(6) Acoustic Enclosure's base frame should incorporate necessary facilities for handling and inter location transfer through oil field trucks.		
	(7) The canopy should be finished in synthetic enamel paint incorporating rust inhibitors and aluminium sprayed silencers and spark arrestors to guarantee a superior and long-lasting finish.		
	(8) Exhaust silencer shall have to be provided of the size as recommended by the manufacturer and shall attenuate the sound to the level noted above. It shall be supplied with a flexible, seamless, stainless steel exhaust connection as well as with all internal pipe work and suitably designed Spark Arrestor.		
	(9) The acoustic enclosure with skid should also incorporate:		
	(a) Locking arrangement (Provision for fitting external lock and key)		
	(b) Lifting arrangement for entire skid/gen set with enclosure.		
	(c) Draining arrangement for fuel and lube oil.		
(d) Air breather.			
(e) Hood for rain protection.			
(f) Emergency stop button			

	(g) Panel meter viewing window		
V/ Skid / base frame (for the DG set)	The engine and alternator are to be close coupled and both be mounted on a suitably designed skid as a base frame fitted with requisite number of suitably designed Anti Vibration Mountings (AVM) for making the DG set vibration free.		
VI/ Spare parts	<p>1) Bidder should have to confirm the availability of all the spares for the complete Gen Sets for minimum 10 years from the date of delivery of materials.</p> <p>2) Spares for two years normal operation in addition to the normal commissioning spares and consumables of the generating set should be provided in the bid, however the price of these spares (<i>Spares for two years normal operation</i>) shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the package. Item wise breakdown price of these spares should also be provided as under -</p> <p>NOTE FOR SUBMISSION OF SPARE PRICE LIST: <i>The price of Spares for two years normal operation shall be provided separately as pdf. document under "Financial Documents" while submitting the Price Bids in GeM Portal. The price of these spares shall NOT be considered for commercial evaluation of the offer and should NOT be included in the quoted price of the package. Also please note that NO PRICE should be mentioned in the TECHNICAL BID.</i></p> <p>3) The following items shall have to be offered as MANDATORY SPARES and to be supplied along with the complete package (<i>The cost of the same to be included in the equipment cost</i>):</p> <p>(a) Engine Spares:</p> <p>i. Fuel filter - 06 nos. (per genset)</p> <p>ii. Lube oil filter - 06 nos. (per genset)</p> <p>iii. Air filter- 06 nos. (per genset)</p> <p>iv. Complete Set of Belts - 04 Sets (per genset)</p> <p>v. Lube Oil for initial filling (per genset)</p>		
VII/ Documents to be attached with the final shipment (for the DG set)	<p>The following documents [at least 03 bound sets (if not specified otherwise hereunder)] are to be separately packed and forwarded to HoD - GEOPHYSICS DEPT, OIL INDIA LIMITED, DULIAJAN- 786602, ASSAM, clearly indicating the OIL's Purchase order no and the description.</p> <p>1. COMPOSITE OPERATING INSTRUCTIONS - with description and illustration of all switchgear controls and indicators and engine and generator controls. Draft copy of the same to be submitted to OIL's inspection team during the time of pre-dispatch inspection for approval.</p> <p>2. PARTS BOOKS - that illustrate and list all assemblies, subassemblies and components.</p> <p>3. PREVENTIVE MAINTENANCE INSTRUCTIONS- on the complete system that cover daily, weekly, monthly, biannual, and annual maintenance requirements and include a complete lubrication chart.</p> <p>4. ROUTINE TEST PROCEDURES- for all electronic and electrical circuits and for the main AC generator.</p> <p>5. TROUBLESHOOTING CHART- covering the complete generator set showing description of trouble, probable cause and suggested remedy.</p> <p>6. RECOMMENDED SPARE PARTS LIST- showing all consumables anticipated to be required during routine maintenance and test.</p>		

	7. Warranty documents, test certificates, requisite certificates as specified, and all other relevant documents specified in OIL's purchase order.		
	8. Three (03) sets of following documents shall be submitted in bound form along with the supply of the genset (s) -		
	i. GA drawing		
	ii. Scheme, layout plan of the unit showing all parts.		
	iii. Bill of materials of all components.		
	iv. Composite O&M manual of the generator covering all sub-systems.		
	v. Part Manual for Engine and Alternator.		
	vi. All test certificates for tests done at manufacturer's works		
	vii. List of recommended spares for two years including part nos. and descriptions.		
I/ Alternator	1. General Description: Brushless type alternator rated at 30 KVA 230 Volts, 0.8 PF, 50 Hz, 1500 rpm, Single Phase Voltage regulation of +/- 5% with class "F/H" insulation.		
	2. Make: Crompton Greaves/Stamford/Kirloskar/ Greaves/Leroy somer		
	3. Rated Output: 30 kVA		
	4. Enclosure: IP 23 (SPDP)		
	5. Earthing: Earthing of the machine shall be done in accordance with the relevant provisions of IS-3043:1992.		
	6. Rated Voltage: 230v +/- 5% Volts		
	7. Applicable standard: IS :13364 Part-2, 1992		
	8. Duty: Continuous		
	9. The Voltage output shall be maintained within 230V +/-5% and frequency at 50 +/-1 Hz at rated load. The voltage regulation from No load to full load shall be within 15%.		
	10. Excitation system: Brushless, self-excited, self-regulated with solid state AVR. The brushless Alternator shall have exciter and rotating rectifier-bridge mounted on shaft complete with diodes and surge suppressor, main field windings and stator windings.		
	11. Direction of rotation: Clockwise from DE		
	12. Automatic voltage regulator: Machine / Control Panel mounted		
	13. Voltage regulation: +/-1% with 4% prime mover speed variation, VR Grade VG1		
	14. Time to build up rated voltage: Shall be less than 5 seconds at rated RPM		
	15. Class of insulation: F/H		
	16. Cooling: IC 01, air cooled by integral fan		
	17. Wave form distortion (THD): Less than 3%		
	18. Overload capacity: 10% overload for 1 hr. once in 12 hrs.		
	19. No. of bearings: Single /Double		
	20. Lubrication type: Grease Lubricated		
	21. Generator output shall be terminated on a suitably rated 2 pole RCBO, with 30mA earth leakage protection.		
	22. Generator shall have provision for earthing at two separate points on the body/foot of the machine.		

23. **Control Panel:** Sheet steel clad, self-supporting, floor mounting, cubicle type, dust and vermin proof generating set control panel made of 2mm thick MS CRCA sheet and built upon rigid framework of channels, beams as required, having front and rear hinged doors with danger plate fitted on both sides, lifting lugs on top, ventilation louvers on both sides, bottom detachable gland plates, double earthing studs on two sides, complete with suitably sized zinc passivated hard wares with heavy plain and spring washers.

All cable entry shall be from bottom side. Removable gland plates shall be provided for all cables.

The genset shall have integrated panel with the following accessories:

- Voltmeter: 1 no.
- Frequency meter: 1 no.
- Ammeter: 1 no. with CT.
- 1 no. Digital multifunction meter indicating Voltage (V), Current(A), Frequency(Hz), Power factor(pf), Active Power(KW), Reactive Power(KVAR), Energy(KWH), Maximum Demand (MD).
- LED indication of incoming power
- Manual start/off switch
- Emergency off push button
- The electrical connection between the alternator and control panel shall be through copper cables.
- Potential circuit wiring of the control system shall be done with 1.5 sq mm, flexible copper, 1100V grade PVC insulated wires approved by ISI, TAC, FIA.
- One no. Double Pole RCBO of suitable rating with breaking
- Capacity minimum 19KA along with suitable rating Fuse shall be provided to protect the alternator in case of short circuit.
- Separate TB shall be provided for all interconnection cables between control panel and engine.

Ferrules shall be provided for identification of cables. All components shall be labeled for identification.

24. Generating set shall be capable to operate satisfactorily under the following site conditions:

- (a) Altitude: Height above sea level not exceeding 150 meters. At other site conditions derating shall apply as per IS:7347-1974.
- (b) Ambient temp: Ambient temp. at operating site does not exceed 45 degree C.

25. The battery and battery charging unit of suitable rating should be provided, duly mounted on genset with fuse protection system.

26. Safety features:

- a) Protection for under voltage and over voltage with engine shut off.
- b) Over frequency and under frequency monitoring and protection with engine shut off.
- c) Overload protection with engine shut off.
- d) Earth leakage protection of 30mA.

27. Rating plate: The rating plate shall be marked with the following information:

	(a) Name of the manufacturer.		
	(b) Manufacturer's number and frame reference.		
	(c) Frequency, number of phase.		
	(d) Rated output in KVA.		
	(e) Rated voltage and current.		
	(f) Power factor.		
	(g) Type of duty.		
	(h) Speed, in revolution per minute.		
	(i) Excitation and voltage at rated output		
	(j) Class of insulation and additional information if any.		
II/ GENERAL NOTES:	1) A tool set for maintenance and simple repair and including a Clampmeter shall be part of the delivery.		
	2) The bidder shall guarantee the offered item for a minimum period of 12 (twelve) months from the date of commissioning/ suitability of the item. Valid guarantee certificate, in this regard, shall be submitted along with the delivery of the item.		
	3) Following spares shall be supplied by the party along with package. 1. AVR Unit for Alternator- One no. per Gen Set. 2. Rotating rectifier assembly fitted with complete set of forward and reverse diodes- One set per Gen set.		
	4) Operation and technical manuals related to the type and model of the generator shall be part of the delivery.		
III/DOCUMENTS SUBMITTED ALONG WITH THE OFFER:			
1	Technical datasheet of the alternator.		
	Type test certificate as per IS 13364(2) of a 30kVa alternator of the same make and model as offered.		
	Power & control wiring diagram of control panel.		
	Confirmation / declaration that the offered panels shall conform to all the points of the tender. Any deviation from the tender specs must be clearly mentioned with technical justifications.		
	Confirmation / declaration to submit guarantee certificate at the time of supply for both alternator and the control panel for a period of minimum 12 months from the date of commissioning.		
2	After placement of PO and before manufacturing: Following documents shall be submitted for approval of OIL after placement of PO and the vendor shall proceed for manufacturing of the alternator and panel after the approval of the same:		
	Dimensional drawing, schematics and layout of the alternator and the control panel(s) inside the acoustic enclosure.		
	GA drawing and Single line diagram of the Control Panel(s)		
	Detailed power & control wiring diagram, detailed enclosure drawings for control panel, earthing.		
	Scheme, layout plan of the unit showing all parts.		
	Details of power cables, control cable and their routes.		
3	Bill of material of the component of the control panel(s).		
	At the time of delivery: Type Test certificate as per IS 13364(2) for the generating set, control panel and complete unit.		

	3 sets of as built GA and single line diagram of the Control panel(s)		
	3 sets of Operation, Maintenance and troubleshooting manual of the alternator.		
	Guarantee certificate for both alternator and the control panel for a period of minimum 12 months from the date of commissioning.		
	<u>Inspection and Testing</u>		
1	<p>The complete unit of engine and alternator along with control panel shall be inspected and tested at manufacturer's works / factory by a team of OIL's Engineers prior to dispatch. The party will arrange the requisites for the test run of the unit at their cost. Intimation for inspection of complete unit must be sent to OIL at least 30 days in advance.</p> <p>Any modification suggested during inspection shall be carried out by supplier at no additional cost. Supplier shall affect dispatch of the unit to OIL, Duliajan, only on receipt of OIL's dispatch advice.</p> <p>Inspection/testing charges, if any, shall be included in the quoted price which shall be considered for evaluation of the offers. To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying our inspection shall be borne by OIL.</p>		
2	During inspection each DG set will be tested at various loads including 10% overload for a period of 1 Hour during a testing period of not less than 4 hours in presence of OIL's Engineers and the performance parameters recorded should be within the figure/range given for the offered units. The DG set should be capable of running at full load conditions for about an hour after the overload test.		
3	A draft copy of Composite Operating Instructions of the complete Generator Set- with description and illustration of all switchgear controls and indicators and engine and generator controls shall have to be submitted to OIL's inspection team during the time of pre-dispatch inspection for approval. The approved copy to be supplied along with the Documents as detailed in the table above.		
	<p><u>Responsibility</u></p> <p>The responsibility for performance to the specifications shall not be divided among individual component manufacturers but must be assumed solely by the supplier. This includes generating system design, manufacture, test, and having a local supplier responsible for service, parts and warranty for the total system.</p>		
	<p><u>Service and warranty:</u></p> <ol style="list-style-type: none"> 1) The manufacturer shall have a local (placed in Assam) authorized dealer who can provide factory trained servicemen, the required stock of replacement parts, technical assistance, and warranty administration. 2) The warranty period for the Gen set and ancillary equipment should be a minimum of 12 months from the date of commissioning of the equipment. Any defects in the Engine or Alternator during warranty period shall be replaced by the supplier at his cost without any extra charge to OIL. 3) The bidder should confirm that spares will be available and provisioning of spares can be continued for the next 10 years. 		

SECTION – ID: PERIPHERALS

11.0	PERIPHERALS		
11.1	<p>Uninterrupted Power Supply (3 Nos.) - Suitable online UPS of sufficient capacity & rating with at least 15 minutes back up time should be offered. The UPS should be able to cater to the safety requirement of all the Electronic Hardware installed in the recorder Cabin as well as provide ample time to the observer for proper shutdown of the seismic data acquisition system and all the associated peripherals. One UPS will be installed in the recording cabin for above requirement and the two (2) will be kept as ready standby (kept at the base camp) with all the accessories so that it is ready to be interfaced with the recording cabin as and when required.</p>		
11.2	<p>Laser Printer (1 No.) - One no. of Laser Colour Printer with the following minimum specification or higher.</p> <ul style="list-style-type: none"> - Print Quality: up to 1200 x 1200 dpi (Black & Colour) - Compatible operating systems: Windows 11 professional/XP/Ultimate or equivalent - Print Technology: Laser - Processor Speed: 800 MHz - Print Speed best quality mode: Black (35ppm), Colour (35 ppm) - Memory Standard: 1GB - Media Supported: Paper (Plain, inkjet, photo, banner), envelopes, transparencies etc. - Input capacity Standard: 150 Sheet or more - Duplex Printing - Connectivity: USB 2.0, 1Gigabit Ethernet <p>Power: 220/230 V AC, 50 Hz</p>		
11.2.1	The printer should be complete with all the accessories & peripherals viz. User's Guide, printer Documentation, software in suitable media (as applicable), Network guide, power cord etc.		
11.2.2	Atleast 5 sets of colour cartridges should be provided for the item mentioned in Section – ID , item no. 11.2		
11.3	<p>DC Power Supply - 12 Volts DC power supply for powering up peripheral (4 Nos.) Equipment in the recording cabin/data harvesting & battery charging cabin should be provided. One no. of DC power supply to be interfaced with the CRU / peripheral equipment and other will be kept as ready standby with all the accessories.</p>		
11.4	TEST & MEASURING EQUIPMENTS		
11.4.1	<p>A complete set of mobile workstation-based Test and Maintenance equipment (one no.) along with necessary operating and interface software specific to the offered ground electronics (if applicable) should be provided for testing, calibration and troubleshooting of field ground electronics including complete workshop facilities (toolkits, oscilloscopes, soldering etc.) should be provided. This system must be capable of recording and troubleshooting in logistically difficult terrain with minimum capacity of 3000 channels at a time. The Test & Maintenance Equipment should be able to test, calibrate and diagnose the ground electronics without the help of Central Controlling /Recording Unit (CRU).</p>		
11.4.2	Field QC tool (at least 50 numbers): Field QC tools compatible with ground station units shall be supplied for		

field status collection. The tools should be able to collect position QC and sensor health status available at ground station level for positioning of supplied ground station units in advance for ensuring error-free acquisition spread and capable of performing all the standard sensor tests independently (sending of sensor test command and display of sensor test results with event log storage option). The supplied equipment needs to have minimum following features to be communicated to CRU/CCU through human intervention at ground station level:

- a. GPS/Battery/Position/available memory/station unit identification log status
- b. Noise /channel response
- c. Common Mode Rejection
- d. Sensor,
- e. leakage,
- f. harmonic distortion,
- g. natural frequency,
- h. damping,
- i. distortion etc.

11.4.3

Five (5) nos. of rugged geophone testers with all accessories and peripherals. The geophone tester should be capable of testing the industry standard geophone element & geophone strings in the field environment and in the seismic workshop. The tester should have library for retaining the fed parameters of the geophones. The geophone tester should have sufficient memory so as to store the system software and results of various analyses in memory/Hard Disk of the system. A suitable printer should also be provided to print out the test results on paper if the printer is not a part and parcel of the system. The geophone tester should be fully compatible with the quoted geophone and should be a portable system having the capability for measurement of the following parameters:

- Sensitivity, Natural Frequency, Damping Coefficient
- Distortion
- Polarity Test, Leakage etc.

Note: Irrespective of the specification/detail requirement given herewith vendor need to provide / quote the same, if any additional software & hardware items required for the purpose, without any extra cost to OIL.

12.0

PC BASED WORKSTATIONS

12.1

PC WORKSTATION (2 nos.) - Should be quoted (only branded systems viz. HP, LENOVO & DELL to be quoted) with the following specifications or higher.

Processor	Intel® Xeon® 4.7 GHz, 24 MB L3 cache, 14 cores or higher Chipset Intel(R) Chipset or higher.
RAM	Minimum 64 GB (2x32GB) DDR4 1666 MHZ ECC expandable up to 256 GB with at least 8 DIMM Slots,
Graphic Card	8 GB NVIDIA QUADRO

Slots	Minimum 3 nos. of PCIe Series Slots
Ports	6 USB 3.0 (two on front panel, four on I/O back panel), 1 ESATA port on back panel (Other ports to be provided by vendor as per compatibility with system, if any.) 2 HDMI port, 1 DVI port, 1 USB C type port and WLAN interface, 2 RJ 45
Optical Drives	Minimum 16X DVD + /-RW with Dual Layer Drive Write Capabilities (Preferably same make & colour as CPU box) Complete with driver software on CD/DVD media, standard accessories, and cables.
SDD	Minimum 2 x 1TB (7200RPM) SATA Drive, RAID 0 Configuration.
Display	OEM minimum 24 inch (diagonal) Flat Panel LED Monitor with standard accessories and cables.
Keyboard /Mouse	4 keys keyboard & 3 button USB Optical Mouse with mouse pads.
Network	Integrated 10/100/1000 Mbps Ethernet Controller and IPV6 compliant.
Operating System	System has to be preloaded with the latest version of operating system (Windows 10 professional 64 bit or higher or as per system compatibility).
	Note: A copy of Latest version of operating system preloaded in the workstation (mentioned above) including latest service packs/patches/drivers along with licenses is to be provided in CD/DVD media & documentation.
Drivers	All the Drivers for the latest operating software as mentioned have to supply in suitable media.
Antivirus	Preloaded Norton 360 deluxe or equivalent software with minimum 3-year subscription shall be provided.
Chassis	Vertical Tower or Inbuilt in system
Others Peripheral	g) Power Cables h) Power Extension spike guard with 6 Nos. of 5 or 15 Amps output or both as per the system requirement i) Patch Cord- Min 3m length with branded factory made. j) 10 meter HDMI to HDMI cable k) All drivers on CD/DVD/USB media l) Energy star 5.0 certified

12.2 **Laptop (1 No.)** - Should be quoted (only branded systems viz. HP, Lenovo, and DELL to be quoted) with the following specifications or higher:

Processor	Minimum 12 Generation Intel Core i7 Processor (4.7 GHz, 24 MB L3 cache, 14 cores) equivalent or higher.
OS	Windows 11 Pro 64 bit or Higher as per latest available at time of supply
Memory	32 GB DDR5-4800 MHz RAM (1 x 32 GB)
Storage	1 TB SSD SATA 3,
Graphics	NVIDIA® Quadro® T600 (4 GB GDDR6 dedicated)
Display	Minimum 15.6" diagonal FHD (1920x1080) or Higher
Keyboard	Standard keyboard with touchpad & backlight

	<table border="1"> <tr> <td>Mouse</td> <td>All surface Bluetooth Mouse</td> </tr> <tr> <td>Connectivity</td> <td>2 nos. USB 3.0 ports, 1 nos. HDMI Port, 1 nos. USB C type, 1 nos. eSATA/USB 3.0 combo port, 1 RJ 45 Ethernet, security lock slot</td> </tr> <tr> <td>Audio</td> <td>Stereo sound with internal speakers, Integrated Microphone</td> </tr> <tr> <td>Battery</td> <td>Minimum 8 cell Li-Ion Battery,</td> </tr> <tr> <td>Adapter</td> <td>External AC adapter with Power cord</td> </tr> <tr> <td>Others</td> <td>All Drivers on CD/DVD media, carrying case, users' manual in English Only. Power and all other interconnecting cables to be provided, Power extension spike guard with six nos. of 5 or 15 amps output or both as per the system requirement.</td> </tr> </table>	Mouse	All surface Bluetooth Mouse	Connectivity	2 nos. USB 3.0 ports, 1 nos. HDMI Port, 1 nos. USB C type, 1 nos. eSATA/USB 3.0 combo port, 1 RJ 45 Ethernet, security lock slot	Audio	Stereo sound with internal speakers, Integrated Microphone	Battery	Minimum 8 cell Li-Ion Battery,	Adapter	External AC adapter with Power cord	Others	All Drivers on CD/DVD media, carrying case, users' manual in English Only. Power and all other interconnecting cables to be provided, Power extension spike guard with six nos. of 5 or 15 amps output or both as per the system requirement.		
Mouse	All surface Bluetooth Mouse														
Connectivity	2 nos. USB 3.0 ports, 1 nos. HDMI Port, 1 nos. USB C type, 1 nos. eSATA/USB 3.0 combo port, 1 RJ 45 Ethernet, security lock slot														
Audio	Stereo sound with internal speakers, Integrated Microphone														
Battery	Minimum 8 cell Li-Ion Battery,														
Adapter	External AC adapter with Power cord														
Others	All Drivers on CD/DVD media, carrying case, users' manual in English Only. Power and all other interconnecting cables to be provided, Power extension spike guard with six nos. of 5 or 15 amps output or both as per the system requirement.														
12.3	<p><u>Tape drives (04 Nos.)</u> - Out of four (04) nos. of tape drives two (02) nos. of the Dual tape drives in LTO-IX/IBM 3592 E7 and the other Two (02) nos. are higher than LTO-IX/IBM 3592 E7 tape drives in Dual tape mode.</p> <p>These should be complete with all the requisite accessories and peripherals viz. inter- connecting cables, power leads etc. These Tape Drives are required for copying seismic data recorded on External Storage devices / Internal Storage Devices and also required to cater to the requirement of processing & archival section of OIL. Two (02) nos. of LTO-IX/IBM 3592 E7 drives will be specifically installed at the base camp for copying the recorded data and another two (02) nos. of drives (which are higher than LTO-IX/IBM 3592 E7 tape drives) will stand alone that can be hooked to other systems. All the necessary hardware, software, drivers, or licenses required to interface these drives with the desktop PC / server should be provided so that they are ready to use for data recording/data copying off-line. (Cleaning Cartridges of 10 nos. should also be provided along with Tape drives and 30 Nos. of empty LTO-IX/IBM 3592 E7 tapes.</p>														
12.4	<u>DOCUMENTATION & MANUALS</u>														
12.4.1	Two (2) sets of detailed hardcopy technical manuals (viz. User and maintenance, all standard Schematics, part list, software maintenance, diagnostic manuals etc.) in ENGLISH only, should be provided for all the vendors items. However, for all the third party or bought out items the bidders have to provide all pertaining documents, manuals etc mentioned above as provided by the OEM.														
12.4.2	Additionally, two (2) set for vendor items mentioned above in item 15.1 should be provided on CD/USB media. For third party or bought out items whatever is available on CD/USB media should be provided														
12.4.3	Technical literature/brochure in respect of the offered equipment should be enclosed to evidence that the quoted equipment meets the desired specifications. The referred/ relevant portion of the literature/brochure should be properly numbered and underlined/highlighted for verification against each and every technical specification clause.														
12.4.4	The corresponding page number of the literature/brochure so underlined/highlighted should be Indicated in column five (05) of the checklist against the relevant clauses of the specifications.														
12.4.5	Only if any parameter is either not mentioned in the literature/brochure enclosed with the bid , or mentioned in such a way that the particular parameter of the technical specification cannot be explicitly and unambiguously verified against OIL specification requirements, a specific certificate shall be enclosed by the														

bidder confirming full compliance of the clause & page number where the specific certificate is enclosed should be indicated in column five(05) of the check list against the relevant clause of the specification.

SECTION - IE: TRUCK MOUNTED RECORDER CABIN

SUPPLY OF BRAND-NEW TRUCK MOUNTED SEISMIC SURVEY MOBILE RECORDER VAN AS PER SPECIFICATIONS, FITMENT AND ACCESSORIES ETC. DETAILED HEREUNDER:

<p>13.0</p>	<p>The bidder shall take special care in selecting, designing, fabricating the Truck mounted Mobile Recorder cabin to be used for seismic survey operations considering the unit's application in typical oilfield roads. The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories, safety features etc. and shall be built completely in all respects without requiring any further fitment/modification in the Recorder cabin on delivery to Oil India Limited by the supplier.</p> <p>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.</p>		
<p>13.1</p>	<p>The following equipment shall be mounted on the Truck:</p> <p>Third Generating set as per section IC, Item No. 10 (iii): This Genset shall power the Central Recording Unit and peripherals housed within the Recorder Cabin. This Genset shall be mounted on a sliding type tray with provision for being locked into position. The Genset shall be operated in its locked position on the Truck chassis during seismic data collection and other operations. During maintenance and top-up of consumables only, the Generating Set shall be slide out using the sliding tray mechanism. 02 (two) nos. Suitable manual screw type jack legs shall be provided on the sliding tray unit for providing support to the slid-out tray with Genset.</p> <p>Recorder Cabin as detailed in Section – IE, Item No. 13.4 below.</p>		
<p>13.2</p>	<p>Overall dimensions & weight of complete unit:</p> <p>Overall Length : Within 10500 mm. Overall Width : Within 2600 mm Overall Height from ground level : Within 4500 mm Overall weight i.e. Total Mass : The total weight (mass) of the complete unit must be within the permissible GVWR of the offered vehicle</p>		
<p>13.3</p>	<p>RECORDER CABIN: One (1)</p>		
<p>13.3.1</p>	<p>The whole system i.e., Central Recording Unit and peripherals should be installed in a suitable, sturdy, and field worthy air-conditioned cabin to be powered by external generating set [Section – IC, item 10.0 (iii)] to operate all the equipment. The recording cabin shall be Indian make and the mounting of the Recorder Cabin on the Truck chassis shall be done in India</p>		
<p>13.3.2</p>	<p>5.1.1 The cabin should be fitted with all fittings, accessories, safety features etc. in all respects without requiring any further fitment/modification on delivery to Oil India Limited by the supplier (i.e.,</p>		

successful bidder). All fittings, accessories and materials used for fabrication and mounting of the Recorder cabin shall be brand new, unused and of recent manufacture equipment/items and free from manufacturing defect. The Recorder cabin shall meet the following specifications.

Dimensions	Length (Inside): 3.25 meter (+ 2%) Width (Inside): 2.10 meter (+ 2%) Internal Height: 2.30 meter (+ 2%)
Longitudinal Runners (Chassis sub-frame)	All steel structure.
Cross members	All steel structure.
Body Frame Structure	All welded galvanized steel/iron structure. Structure to be painted with high rich Zinc primer.
Exterior Panelling	Galvanized steel/iron panel of adequate thickness.
Colour- Exterior	All steel components used in the fabrication should be pre-treated and applied with metal primer. Final colour should be "White" desirably Polyurethane (PU) paint.
Interior (Sides, Roof) Panelling	Galvanised iron PVC coated panel of adequate thickness, desired colour White/Otis grey.
Flooring	Minimum 5mm MS Chequered plate. The entire flooring should be covered completely with anti-skid aluminium chequered plate.
Insulation (Roof & Body)	Thermocole, Fire Retardant (FR) grade and Water/Moisture Resistant.
Table	Wall mounted table "L- shaped" along the length & width of the Recorder cabin shall be provided. The frames of the table shall be attached with the structure of the recorder cabin.
Lockers	Wall mounted locker - 02 Nos. shall be provided inside Recorder Cabin.
Door	01(one) number of lockable metallic "Single-Swing Door" to be placed at rear end of the Recorder cabin at a distance of not less than 250 mm (approx.) from both sides & top for proper strengthening of the door/cabin. Door opening width: 76 cm (+ 2%). Door opening height: 198 cm (+ 2%) One number of circular peeping toughened glass fixed window of diameter 120 mm shall be provided towards top of the door to view from inside of the Recorder cabin to outside.

Grab handle, suitable sealing arrangement to avoid entering dust, rainwater, wind etc. to be provided.

Lamp
Minimum 04 Nos. side wall mounted LED Lamps shall be provided inside Recorder cabin to be powered by external generating set.

Minimum 02 No. roof mounted LED Lamp shall be provided inside Recorder cabin to be powered by external generating set.

Deck Area
Full platform width deck area of length not less than 1m is to be provided at the rearmost i.e., in front of the Recorder cabin door. Rust proof metallic railings with handrail and vertical/horizontal baluster desirably of rust proof Aluminium/Steel are to be provided along the side of the deck area.

Input Cables from Line
The cabin should have seismic input panels, with good thermal insulation, on one side for connecting seismic cables and earthing wires.

Power socket panel
Power socket panel provision in the Recorder Cabin to power the Recorder cabin electrical items from external Generating set.

Air conditioner
Two number of 1TR Split Air Conditioners shall be provided for cabin and shall be capable of maintaining cabin temperature below 20°C. Ambient temperature is from 10°C to 45 °C with humidity up to 80%, non-condensing. The power supply shall be 230V.

The AC indoor unit shall have provision of proper fastening to prevent it from falling during transportation from location to location. The Air Conditioners are to be mounted at convenient locations of Cabin. The indoor units of the Air Conditioners are to be mounted with metallic frame fixed with the body structure of the Cabin. The outdoor unit should be securely mounted to prevent any movement or vibrations during travel. Use of appropriate brackets or mounts to ensure stability. The outdoor unit should be shielded from direct exposure to rain, dust, and other environmental elements. A protective cover or housing shall be installed that allows for airflow while keeping the unit safe from the weather. A suitable water drain line shall be fitted, if required. The air conditioners are to be powered by

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			<p>the supplied generating set. Compressor shall be of inverter type. Power for each AC shall be from 20 Amps metal clad wall sockets.</p> <p>Following points are to be considered for the AC units:</p> <p>Make:Voltas/LG/BlueStar/Carrier/Lloyd/Samsung/Haier/Hitachi /Daikin.</p> <p>BEE rating: 5 star rated (with current year validity).</p> <p>The machine shall be warranted for 1 year and compressor shall be guaranteed for 5 years. Duly signed warrantee / Guarantee certificate shall be submitted at the time of delivery.</p> <p>Control: Through remote</p> <p>Safety of all the electronic equipment installed in the cabin should be ensured by taking adequate precautions in the cabin design, AC fitting etc. so as to prevent moisture, water, etc. from entering into the cabin either from AC trays or from rains.</p>		
		Power Socket provision	<p>The following are the minimum Power Socket provision:</p> <p>220VAC: 04 Nos. (To be powered by external generating set)</p> <p>Additional switch board with socket: 04 Nos Additions power extensions boards from UPS to computers/printers/ NAS etc: 05 Nos</p> <p>Two 02 Nos of dipole antenna for field communication to be fitted.</p> <p>Fire extinguisher mounting inside Recorder cabin at convenient locations to be fitted.</p> <p>Complete electric wirings, fittings, accessories etc. to power the Recorder cabin electrical items from external Generating set to be fitted.</p> <p>Complete electric wirings, fittings, accessories etc. to power the lamps inside Recorder cabin and Flood light from external Generating set to be fitted.</p> <p>Foldable ladder with antiskid surface at Rear to be fitted.</p> <p>Suitable damper/shock absorbers, if required to arrest vibration</p>		

			<p>of cabin as per design to be fitted.</p> <p>All steel components used in the fabrication should be pre-treated and applied desirably with zinc rich primer.</p> <p>Side, Top, Repeater marker lights to be powered by vehicle battery.</p> <p>Retro reflective tape as per Motor Vehicle Act/Rules of India to be fitted.</p> <p>Minimum one number Flood Light near the Door of Recorder to be powered by external generating set to be fitted.</p> <p>The inscription "OIL INDIA LIMITED, A GOVERNMENT OF INDIA ENTERPRISE, DULIAJAN, ASSAM-786602" with "OIL LOGO" & "PURCHASE ORDER NUMBER" shall be painted prominently on the body of Recorder cabin. (Logo/specification shall be provided by Oil India Limited after placement of order)</p> <p>The Recorder Cabin, its fittings/accessories and deck area must be within the original chassis of the vehicle supplied by the vehicle manufacturer. Extension of the original chassis by welding/bolting or by any other means to accommodate the Recorder Cabin, its fittings/accessories and deck area is not acceptable.</p> <p>Door, window and latches etc. shall not allow to ingress of rainwater/dust inside the Recorder cabin when in the closed position. Recorder cabin is to be shower tested and necessary test report is to be submitted.</p>		
	Antenna Mast		Two Nos (02) of minimum 50 feet VHF antenna (Telescopic) mast should be fitted for communication in the field operations.		
	Credential of body builder		<p>The entire design, fabrication and mounting etc. shall be done by any of reputed body builder approved by Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc.</p> <p>Details of body builder with valid certification from Automotive Research Association of India (ARAI), Central Institute of Road Transport (CIRT), India or any authorized entity having jurisdiction in India for building Bus/Coach etc. is to be submitted along with technical bid by the bidder</p>		
	Drawing		Detailed dimensional drawing (Plan, Elevation, Side views) of		

the complete unit (Truck Mounted Recorder Cabin) along with detailed mounting & material construction of the Recorder cabin structure, exterior panelling, interior panelling, flooring etc. from the body builder should be submitted along with the technical bid by the bidder(s).

Also, the prospective supplier (successful bidder) shall have to submit final detailed dimensional drawings along with detailed mounting and material construction of Recorder cabin from the body builder within 30(thirty) days from the date of OIL's purchase order before manufacturing & fabrication of the Recorder cabin. The same should be prepared based on order specification & OIL's requirement.

13.4 TRUCK for Recorder Cabin and Third Generating Set: One (1) no.

13.4.1 The truck should accommodate the recorder cabin (Section – IE, item 13.1), one no. of mounted generating set [Section – IC, item 10(iii)]. The offered items shall be latest and conforming to quality standard norms, having all fittings, accessories; safety features etc. and shall be built completely in all respects without requiring any further fitment/modification on delivery to Oil India Limited by the supplier (i.e., successful bidder)

13.4.2 Mounting of the recorder cabin and generating set on the truck chassis is responsibility of the supplier

13.4.3 5.1.2 The truck shall have the following specifications:

1	Month & Year of manufacture; Make	Brand new Truck chassis model with Driver Cabin & load body of any vehicle manufacturer of India, procured after the date of issuance of Purchase Order (PO) /Letter of Intent (LOI)/ Letter of Award (LOA) and meeting the specifications as mentioned in the Tender / Purchase Order. The bidder shall mention the make & model of the offered Truck chassis in technical bid including all other requisite specifications.
2	GVW	Not less than 11000 kg.
3	Wheelbase	In the range of 4200 mm to 6800 mm. The wheelbase is the horizontal distance between the centres of the front axle and rear axle wheels.
4	Overall dimensions	As mentioned in Clause 13.3 above
5	Engine	Water cooled Diesel fuel engine of adequate power and torque. Air cooled engine is not acceptable.

6	Emission Norms	<p>Bharat Stage – VI (BS VI) OBD Stage II. Shall also comply Real Drive Emissions (RDE) using Portable Emissions Measurement System (PEMS) requirements.</p> <p>The bidder shall mention the emission norms of the offered vehicle in the technical bid.</p>
7	Steering	<p>Power assisted and Right-Hand Steering (i.e., Steering wheel shall be on the right-hand side inside the Driver's cabin when viewed from the rear of the vehicle).</p> <p>Unit with left hand steering is not acceptable.</p>
8	Gearbox	Minimum 5 forward speed & 1 reverse speed.
9	Brake	Air or Hydraulic power assisted foot operated Brake with Antilock Braking System and suitable hand operated Parking Brake.
10	Drive	4 x 2 Drive, Rear Axle Drive.
11	Axles	Front – 1 No., Rear – 1 No. (Drive axle).
12	Suspension (Front and Rear)	As per the Truck manufacturer.
13	Wheels & Tyres	<p>Front- Total 02 Nos. Rear – Total 04 Nos. [Dual (i.e., 02 Nos.) wheels in each side of rear axle, Single wheel on each side of rear axle is not acceptable]</p> <p>Spare – Spare – To be supplied.</p> <p>It shall be bidder's endeavour to offer front and rear wheels of same size & type. If not possible for design constraint, two spare wheels - one for each type shall be supplied. Suitable lifting & mounting arrangement facility for spare wheel(s) shall be provided. Super Single tyre is not acceptable.</p>
14	Fuel Tank & Diesel Exhaust Fluid (DEF) Tank	As per vehicle manufacturer.
15	Speed Limiting Device (SLD)	To be provided with valid certification as per Indian Motor Vehicle Rules as applicable in the state of Assam (India).
16	Vehicle Tracking System (VTS)/GPS:	To be provided with valid certification as per Indian Motor Vehicle Act/Rules as applicable in the state of Assam (India).

		17	Fitments & accessories:	<p>Following fitments & accessories shall be fitted in each vehicle:</p> <ul style="list-style-type: none"> k. All standard fittings, accessories, standard gauges, and meters as per Indian Motor Vehicle Act/Rules shall be fitted. The Speedometer & the Odometer shall be with Metric KM calibration system only. l. Rear view mirrors at both sides of the driver's cabin, horn, driver cabin lamps, head lamps, parking lamps, tail lamps, direction indicator lamps, stop lamps, fog lamps, windscreen wipers, first aid box, floor mats, footsteps, grab rail, mud flaps/guards, fire extinguisher etc. shall be fitted in the vehicle. m. 01 (one) number spare wheel assembly shall be supplied in the vehicle. n. Suitable towing provision / attachment at Front and Rear of vehicle. o. 01 set of Jack with Handle and Wheel Wrench with Lever shall be supplied along with the 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 the vehicle. p. Suitable electrical Master Switch to disengage all electrical circuits from battery, Well-covered Battery Box shall be fitted in each unit. q. Wherever feasible, Bumpers, side under run protection device (SUPD)s, rear under run protection device (RUPD), front under run protection device (FUPD) are to be fitted. r. To fix retro reflective on the front, rear and both side of the complete unit as per the colour code- Front: White, Rear: Red and Sides: Yellow. 		
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			<p>s. Audible alarm to sound while the vehicle is put in reverse gear.</p> <p>t. Suitable Spark Arrestor in the engine exhaust. The Spark Arrestor may be additional attachment to be fitted with the exhaust or chassis inbuilt mechanism.</p>			
		18	Driver's cabin	<p>Originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle, complete with all standard fittings and accessories without requiring any subsequent fabrication job in it.</p> <p>Seating capacity minimum 02 (two) Nos. including Driver and containing Driver's seat, Co-passenger's seat, steering wheel, all controls, instruments, and other devices necessary for driving or operating the vehicle.</p> <p>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.</p>		
		19	Load body and platform	<p>Steel platform, originally built & supplied along with the vehicle by the vehicle chassis manufacturer of the offered vehicle.</p> <p>High side deck or Hood in the load body is not acceptable.</p> <p>Note: While selecting the vehicle, bidder to note that the load body accommodates the Recorder cabin & third Generating Set offered by the bidder as specified elsewhere in the tender.</p>		
		20.	Notes	<p>(d) In case any of spares, fittings/accessories etc. as mentioned in the tender does not come along with the vehicle as standard spares, fittings/accessories from the vehicle manufacturer, the supplier shall procure the same</p>		

and fit the same prior to delivery of the vehicle without any extra cost to Oil India Limited.

- (e) Suitable Gap as per standard between the Truck driver's cabin and the Generating Set with enclosure shall be provided.
- (f) Suitable Gap as per standard between Generating Set with enclosure and Recorder Cabin shall be provided.

21

Drawing

In addition to submission of technical brochure/leaflet of the offered Truck, the bidder shall also submit the following along with the technical bid:

- (i) Mounting details of the Recorder cabin and Third Generating Set from the reputed workshop/fabricator etc.
- (ii) Dimensions (length, width & height) & weight of the Recorder cabin & Generating Set.

Also, the prospective supplier shall have to submit final detailed dimensional drawings along with detailed mounting and material construction from the fabricator within 30 (thirty) days from the date of OIL's purchase order before mounting the generating set etc. on factory built (i.e., originally built & supplied along with the vehicle by the vehicle manufacturer of the offered vehicle) load body. The same should be prepared based on order specification & OIL's requirement.

22

Documents/literatures to be submitted along with the supply:

The following documents/literatures shall be submitted for each vehicle along with the supply by the supplier and cost in this regard, if any, shall be borne by the supplier:

Invoice(s) in original.

Notwithstanding any clause mentioned elsewhere in the NIT/tender, the invoice(s) for the complete unit shall be submitted in 03 (three) parts as under for registration purpose:

- d) Invoice for the Truck chassis with Driver's cabin.
- e) Invoice for the Recorder cabin: It shall include the cost of fabrication, mounting, etc. of the Recorder cabin.
- f) Invoice for entire onboard equipment / machineries and any other items/accessories etc. permanently mounted on the Truck & its cost of mounting on Truck.

Note: Vehicle Chassis Number & Engine Number shall be mentioned in invoice(s) against above Sl. No. (a), (b) & (c).

Sale Certificate, Emission Certificate, Initial Road Worthiness Certificate in Form 21, 22 & 22(A) Part-I & Part-II, Temporary Registration Certificate as per Motor Vehicle Act, 1988 and Central Motor Vehicle Rules, 1989 of India; 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).

Any supporting document(s) required from Oil India Limited (OIL) for issuance of aforementioned documents shall be provided by OIL. The place, code of the permanent registration shall be intimated in the nearer time in the event of the order.

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.

Any manuals/documents etc. supplied by the vehicle manufacturer.

Note:

The Truck shall be procured by the supplier (i.e., successful bidder) 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 (i.e., successful bidder) shall obtain the Invoice etc. from the vehicle dealer/manufacturer accordingly.

23 Delivery

(d) The fully built complete unit (Truck mounted Recorder Cabin) along with all documents etc. are to be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) without any defect by the supplier at their risk and cost as per the delivery period mentioned elsewhere in the tender document.

OIL reserves the right to inspect, test and if necessary, reject any part/parts after arrival of the vehicles at Duliajan, Assam-786602 (India), if the said rejection is attributed to be the responsibility of the supplier. It shall, in no way be limited or waived by the reason that the units have been inspected, tested, and passed by OIL prior to dispatch.

(e) Temporary Registration Certificate shall be arranged & supplied by the supplier (i.e., successful bidder) 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 complete 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.

(f) The supplier (i.e., successful bidder) 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.

24 VAHAN portal database, Permanent Registration & High Security Registration Plate (HSRP) Kit:

The bidder/ supplier (i.e., successful bidder) 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). Cost of permanent registration shall be borne by Oil India Limited. On receipt of the government registration number, Oil India Limited shall inform the government registration number to the bidder/ supplier (i.e., successful bidder). The supplier (i.e., successful bidder) 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 (i.e., successful bidder).

13.4.4

Workmanship:

The workmanship and fabrication/mounting, finishing etc. should be of highest standard. The materials, fittings, accessories, tools etc. supplied/fitted shall be new, of recent make, best quality. Workmanship should be of good quality and appearance. Following is a partial list of examples:

- (a) Flame cut edges shall be ground smooth. Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth.

	<ul style="list-style-type: none"> (b) Flame cut edges shall be ground smooth. Sharp corners and edges to which operators and mechanics are vulnerable shall be ground smooth. (c) Bolt holes shall be drilled (not torch cut). (d) Welds shall be of good quality and of sufficient strength. (e) Use self-locking nuts. (f) All electrical wirings will be well supported with support type clamps & conduit wherever required. (g) 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. 		
<p>13.4.5</p>	<p>Inspection: The prospective supplier will facilitate inspection to OIL's Engineers/ representative as under:</p> <p>Stage -1: After purchase of 03 (three nos.) vehicle chassis as under but prior to any fabrication job:</p> <ul style="list-style-type: none"> (iv) Truck chassis for mounting of Data Harvesting & Charging Cabin. (v) Utility Vehicle Chassis for mounting of Fourth Generating Set. (vi) Truck chassis for mounting of Recorder Cabin & third Generating Set. <ul style="list-style-type: none"> f) Chassis Identification & physical verification of chassis No., engine No. etc. g) Verification of all documents related to chassis procurement. h) Physical Identification of Components / sub-assemblies identification, before fabrication. i) Verification of all manufacturer's/ fabricator's documents including documents of imported items. j) Positioning of various components on respective vehicle chassis <p>Stage -2: Pre-dispatch inspection.</p> <p>At least 45 days advance intimation should be provided to plan the visit of OIL's inspections.</p> <p>The inspection process will include at least the following steps/tasks:</p>		

	<p>g) Physical verification of all items, fittings, accessories, tools etc. as per purchase order & documentations.</p> <p>h) Operational testing of the vehicles. Driver(s), all consumables & any other requirements for the purpose of testing during the inspection shall have to be arranged & provided by the supplier at their cost.</p> <p>i) Suggestion of any minor modification for operational requirement, as required, the supplier shall have to comply with the same without any extra charge to Oil India Limited.</p> <p>j) The inspection report would be prepared jointly and signed by OIL's Engineers/ representative and the supplier at the end of the inspection process.</p> <p>k) Supplier shall confirm in writing compliance of all the points raised in the inspection report as well as any other subsequent addition/deletion following deliberation with the inspection team after arrival in Duliajan, Assam.</p> <p>l) To & fro fares and boarding/lodging expenses etc. of OIL's inspection team will be borne by OIL. However, supplier's expenses etc., if any, in this regard, shall be borne by the supplier.</p>		
13.4.6	<p><u>Delivery:</u></p> <p>c) The fully built brand new Truck Mounted Seismic Exploratory Mobile Recorder Van and the Truck with Dual Crew Cab mounted with the Generating Set along with all automobile tools, fittings & accessories, documents etc. are to be delivered in Oil India Limited's premises at Duliajan, Assam-786602 (India) without any defect by the supplier at their risk and cost.</p> <p>OIL reserves the right to inspect, test and if necessary, reject any part/parts after arrival of the vehicles at Duliajan, Assam-786602 (India), if the said rejection is attributed to be the responsibility of the supplier. It shall, in no way be limited or waived by the reason that the units have been inspected, tested, and passed by OIL prior to dispatch.</p>		
13.4.7	<p><u>Invoicing:</u> Notwithstanding any clause mentioned elsewhere in the Tender, the invoice for the complete unit shall be submitted in 2(two) parts separately as under: -</p> <p>- <u>Invoice for truck chassis and cabins:</u> It shall include the cost of truck chassis with Driver's Cabin and Rear Instrument Cabin only.</p> <p>- <u>Invoice for other instruments & components:</u> It shall include cost of all other equipment/ components mounted on the truck as well as supplied separately, if any, as part of the complete offer.</p>		
13.4.8	<p><u>Warranty/Guarantee:</u> Notwithstanding any Guaranty/Warranty clause(s) mentioned elsewhere in the tender, the truck unit shall be under guarantee/warranty by the bidder for min. period of 1 (one) year from the date of successful commissioning of the complete unit at site.</p>		
SECTION - IF: SPARE KIT FOR CENTRAL RECORDING UNIT (CRU) AND PERIPHERALS			
14.0	<p>Spare kit for onsite repair for the CRU including the man-machine interface should include one complete set of spare boards / PCB's used in the data acquisition module of the CRU, man-machine interface, (or the complete module in lieu thereof).</p>		

14.1	One complete set of interconnecting cables used for interconnecting various modules in the CRU, viz. CRU to workstation/PC/Operator console to various peripherals (like Printer, External Storage System etc.) to QC systems and other power cables.		
14.2	Complete list of spares to be supplied, against Section – IF, clause 14.0, along with individual price should be attached separately. Cost of the spares to be supplied along with the equipment should be included in the quoted price of the equipment. However, the individual price of the spares shall be provided as per the note below. NOTE FOR SUBMISSION OF SPARE PRICE LIST: <i>The price of individual spares 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.</i>		
14.3	Fiber Optical Maintenance and Tool Kit with associated consumables for splice – 50 Nos. of splices.		
14.4	Complete Tool Kit with carrying case, meters etc. for field units - Two set		
14.5	All types of connectors (viz. geophone takeouts, adapters, etc.) used in the spread which includes all the field units/links of 1 set each (i.e.: 1set each means at least 15% of connectors used in spread of 12000 nos. of channels for each category, rounded to the next higher whole number).		
SECTION – IG: PDI, I&C & TRAINING			
15.0	<u>Pre-dispatch/shipment inspection</u>		
15.1	Three OIL personnel will visit the vendor’s site for a maximum duration of ten working days for carrying out item wise physical inspection of imported items as per specification of the system, channel capacity of the equipment, checking of spares, peripherals, manuals, catalogues, software, and other documents before the dispatch of the consignment. For the Indian make items the inspection will be done in India.		
15.2	The bidder/supplier should intimate the date of inspection to OIL atleast forty-five (45) days advance to complete the necessary internal formalities for OIL’s personnel to visit the vendor site, Cost of traveling, boarding, and lodging of OIL’s personnel will be borne by OIL.		
16.0	<u>Installation & Commissioning</u>		
16.1	The bidder should undertake to completely assemble the system including shock proof, mounting of the same in cabin on the truck along with integration of different peripherals/items such as printers, tape drives, external storage systems, power supplies generator etc. so that the system becomes ready for deployment in the field after commissioning.		
16.2	The bidder should undertake to completely assemble the Data harvesting and Charging device including shock mounting of the same in cabin on the suitable trailer vehicle with provision of Driver's cabin along with integration of different peripherals/items such as printers, LTO drives, external storage systems, power supplies generator etc. so that the system becomes ready for deployment in the field after commissioning.		
16.3	The system will be installed and commissioned by the supplier at Oil India Ltd. specified location in Duliajan, Assam only. Charges if any should be quoted in the enclosed price schedule.		
16.4	The commissioning engineers should be available at site within 45 days of the intimation given by the company for commissioning the equipment and the commissioning should be completed within 28 days.		

16.5	<p>The following points are to verify at the consignee's premises jointly by the representative of the bidder & OIL's representative(s):</p> <ul style="list-style-type: none"> - Quantity & Physical condition of each of the modules/items supplied. - Cabin & Generator including condition of fittings. - Manuals, Catalogues - Software media and manuals - Necessary Test /Warranty/ Guarantee Certificates <p>Any other details as per complete system specifications</p>		
16.6	The commissioning of the equipment (other than Section – IG item 16.5) includes physical, testing/checking of all the equipment & delivered spares.		
16.7	Comprehensive Acceptance tests as per the acceptance protocol are to be carried out during the commissioning of each item of the system including all accessories & peripherals by the representative(s) of the supplier in fully working condition after duly interfacing all the supplied items in the presence of OIL's representatives within a month followed by documentation and joint certification of the test results. The all-acceptance tests will be carried out in OIL's operational area. An installation and commissioning certificate duly signed by the authorized representatives of the OIL shall be issued certifying that the fully integrated system is functioning satisfactorily as per the Supply order.		
16.8	At least one of the engineers is required at commissioning site for additional four weeks after the system is commissioned successfully, to ensure smooth deployment and functioning in the field for trouble free operation.		
17.0	TRAINING		
17.1	In order to ensure optimal utilization of new technology and efficient in-house maintenance of the sophisticated system training has to be imparted to OIL's personal. The charges for training if any should be quoted in the enclosed price schedule.		
17.2	Equipment operation user Training should include User Operation, Hardware maintenance, spread QC tools, standard instrument tests, troubleshooting, shooting system, harvesting unit, advanced capabilities of system etc. for the seismic data acquisition system. Hardware maintenance training should include central controlling /recording unit, ground electronics, data harvester and peripherals such as Radio blasting system, workstation, GPS Test & Maintenance Equipment etc. The training should also be imparted on software applications viz. updating patches, OS & software loading etc. The complete training has to be imparted to Eight (8) numbers of Geophysicists and should be of minimum 21 working days duration. The training charges should be included in the quote.		
17.3	The details of the training should be enclosed along with the offer.		
17.4	The travel and living expenses of OIL personnel for the training organized at suppliers work site/factory will be borne by OIL.		
SECTION – IH: PRODUCT SUPPORT (HARDWARE):			
18.0	PRODUCT SUPPORT (HARDWARE):		
18.1.1	Future support for service, supply of spare & consumable parts of the vendors items should be for minimum 7 (seven) years from the date of commissioning about service, spares, and consumables. However, for		

	bought out items other than those covered under AMC, the bidder has to provide minimum one (1) year support from the date of installation & commissioning. Certificate to these effects should be enclosed with the bid document.		
18.1.2	Any hardware/software modification required for removal of bugs, if any, should be provided during the warranty period and beyond till the full life cycle of the seismic data acquisition system at no additional cost to OIL.		
8.2	<u>PRODUCT SUPPORT (SOFTWARE)</u>		
8.2.1	The Operating software and the application software need to be supplied with perpetual license (full lifetime license minimum of 20 years). Third party software, if any, should also be supplied with perpetual license. In this regard, for the said span of 20 years, bidder shall support the license with free of cost, and during this 20 years period if the software needs to be installed on new hardware in event of any hardware failure, the bidder shall install the software on the supplied new hardware with free of cost at Duliajan. However, the necessary new hardware will be provided by OIL.		
8.2.2	Any software upgrades if released within the warranty period would be provided at no Additional cost to OIL.		
8.2.3	Software patches for general improvement in the function of the system and also for the removal of the bugs if any, during the warranty period and beyond till the full life cycle (full usage time) of the system shall be supplied by the supplier at no additional cost to OIL.		
8.2.4	Information about revision/up-gradation should be provided by the bidder from time to time at no cost to OIL.		
8.2.5	Password/license operating keys corresponding to Host IDs of various intelligent devices, workstations, PCB's, plotters, printers, devices etc. requiring licenses or authorization or password integrated/ to be integrated into the system should be provided for smooth utilization/maintenance during the life cycle of the equipment. This will include the supplied/ to be supplied spares also.		
19.0	<u>WARRANTY:</u>		
19.1	All the equipment including third party items shall have to be covered by a warranty for 12 months after successful commissioning at site.		
19.2	Warranty should also include supply of all the software upgrades with necessary additional; hardware, if any, free of cost.		
19.3	In case of any defect (as per the General terms & conditions under Warranty clause), during warranty, the supplier shall arrange to replace/repair the defective part at his own cost at users' site.		
19.4	In case of problem (either hardware or software related) in central controlling /recording unit and its peripherals, standalone workstations, data harvesting devices & other peripherals etc, the supplier shall send his engineer along with relevant spares to rectify the problem at site within 120 hours. The necessary travel and boarding expenses of the service engineer will be borne by the supplier. The system shall have to be repaired within a period of ten days from the time it is reported.		
19.5	In case of supplier's failure to repair as per clause 19.4 above a penalty on pro-data basis shall be levied @ 0.5 % per week upto the maximum of 7.5% cost of the equipment which will be paid by the supplier within 30 days. If the supplier fails to pay the penalty, the same shall be recovered from Bank Guarantee.		
19.6	In case of problem in the supplied items including ground electronics, HF sets, VHF sets, battery charger,		

	portable handheld testers, recorder cabin and truck etc. The supplier has to replace/repair all the defective part within one month from date of reporting, failing which the penalty on pro-data basis shall be levied @ 0.5 % per week upto maximum of 7.5% cost of the equipment which will be paid by the supplier within 30 days. If the supplier fails to pay the penalty, the same shall be recovered from Bank Guarantee.		
19.7	For warranty services, OIL will liaise only with a single point of contact of the bidder. . The bidder has to mention the contact address, phone number of the contact person who will be responsible for AMC support.		
20.0	ANNUAL MAINTENANCE AND SUPPORT CONTRACT		
20.1	AMC will start after successful completion of warranty period.		
20.2	The bidder has to quote for six years of comprehensive AMC for items supplied against this tender as given in Annexure – (IH) 1. Unless explicitly mentioned all the items required to be covered under the AMC are those as listed in Annexure – (IH) 1.		
20.3	The bidder has to quote the total AMC charges per year separately for six years after expiry of one year warranty period. AMC charges will be paid quarterly after successful completion of the AMC services for that period. Any penalty amount on the bidder will be adjusted from that AMC charge.		
20.4	The AMC will include Preventive as well as corrective maintenance.		
20.5	The charges quoted against AMC for Six (6) years will be considered for commercial evaluation.		
20.6	The supplier has to identify the critical spares required for stocking and the same has to be mentioned in their quote. The successful bidder has to stock critical spares as identified to minimize downtime of all the equipment's supplied.		
20.7	The supplier will depute one of their trained/OEM certified maintenance engineers on as and when required basis to Duliajan during 6 years AMC period. The engineer should be qualified and should have minimum 2 years' experience with similar systems.		
20.8	The supplier at his own cost shall arrange the clearance of the spare parts, equipment etc. from customs and port authorities in India (in case of import) and shall pay all requisite duties including customs duty, demurrages, if any, clearance fee/ charges, inland transport charges etc.		
20.9	The supplier shall arrange accommodation and local transportation for their maintenance engineers during stay at Duliajan, Assam, India – 786602 at their own cost.		
20.10	During the AMC period routine maintenance, repairing/replacement of all the supplied equipment should be done twice as required by OIL and the bidder's engineer(s) must visit Duliajan/Operational site twice in the year for a period of minimum four (4) working days. All the repairing, maintenance, should be OEM certified		
20.11	No cannibalization of any system will be permitted for carrying out maintenance services.		
20.12	The supplier will have to follow the preventive maintenance schedule of each equipment supplied, during the AMC period.		
20.13	Any tools and equipment needed for carrying out the jobs under AMC has to be provided by the supplier. However, OIL will provide help with tools available with them.		
20.14	In case the contractor fails to repair any equipment supplied by them during the AMC period, within 120 hours from the time of reporting the breakdown, a penalty of 0.5% of yearly AMC charges for each day of delay will be levied subject to a maximum amount of 7.5 % of AMC charges within a calendar year. If for any reason, the bidder fails to repair the equipment within eleven successive days from the date of reporting, the period of AMC will be extended by the said period at no extra cost in addition to the above penalty.		

20.15	For AMC services, OIL will liaise only with a single point of contact of the bidder. The bidder has to mention the contact address, phone number of the contact person who will be responsible for AMC support		
20.16	In case of any system integration problem during the AMC period, it will be the responsibility of the supplier to rectify the same.		
20.17	The AMC should include supply and installation of all the software upgrades with necessary additional hardware, if any, free of cost at the earliest.		
20.18	In case of any breakdown during AMC period, the supplier shall arrange to replace/repair the defective part at his own cost at user's site.		
20.19	All the items covered under Annual Maintenance Contract (AMC) should be maintained in such a way that all the items are ready for deployment and use in the field. The item description to be covered under comprehensive AMC is mentioned below in table as an Annexure - (IH) I.		

ANNEXURE – (IH) 1

SL. NO.	<u>NIT ITEM NO.</u>	<u>ITEM DESCRIPTION</u> (TO BE COVERED UNDER COMPREHENSIVE AMC)	<u>QTY.</u>
1	4.1	Central Controlling / Recording Unit (CRU) (Complete Hardware & software) as per NIT Section – IA , clause 4.1	02
2	4.1.7	External Storage	01
3	5.1	Data Acquisition Station Units	12000 nos.
4	5.3	Encoders	02
5	5.3	Decoders	06
6	8.3	Data Harvesting Equipment Unit (Complete Hardware & software)	01
7	13.3	LTO Drives	04
8	9.0	Battery Chargers (complete set)	01
9	11.4	Test & Measuring Equipment including Field QC tools (Complete hardware & software)	01

Note 6: The supplier has to identify any other critical items/spares required to be covered under AMC apart from items as listed in Annexure- (IH) I and the same has to be mentioned in their quote. The bidder must quote the total AMC charges accordingly.

CHECKLIST

Whether quoted as manufacturer?		
Whether quoted as OEM Dealer/Supply House?		
If quoted as OEM Dealer/Supply House -		
a) Whether submitted valid and proper authorization letter from manufacturer confirming that bidder is their authorized Dealer/supply House for the product offered?		
(b)Whether manufacturer's back-up Warranty/Guarantee certificate submitted?		
Whether agreed to the tender warranty clause of the tender?		

Whether submitted EMD/Bid Security within the bid closing date & time as per tender requirement?		
Whether quoted a firm delivery period as per the tender requirement?		
Whether confirmed to submit PBG as asked for in tender?		
Whether Bid Security submitted as per requirement of the tender?		
Whether confirmed Bid Validity as per the tender requirement?		
Whether confirmed Payment Terms as per the tender?		
Whether quoted as MSE unit? If yes, whether necessary document submitted?		
Whether submitted Integrity Pact duly signed and sealed as per PROFORMA – D?		
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 Remarks here.		
Whether submitted format of undertaking by bidders towards submission of authentic information/ documents as per PROFORMA – J.		
Whether copy of the SFMS message for Bid Security/ EMD as sent by the issuing bank branch submitted along with the original bank guarantee?		

ANNEXURE – V

BID EVALUATION MATRIX (BEC/BRC)

BID EVALUATION MATRIX (BEC/BRC) (TO BE FILLED IN BY BIDDER DULY SIGNED)			
SL. NO.	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER Relevant Location in their Bid to support the remarks / compliance (Reference of Document name / Serial number / Page number of bid for documentary evidence)
A.1	<u>TECHNICAL</u>		
1.0	<u>BIDDER'S ELIGIBILITY:</u>		
1.1	The bidder should be an Original Equipment Manufacturer (OEM) of the tendered item (cable less seismic data acquisition system). OR		
1.2	The bidder should be an authorized dealer/authorized distributor /authorized supplier/wholly owned subsidiary of an Original Equipment Manufacturer (OEM) of the tendered item (cable less seismic data acquisition system).		
2.0	<u>IN CASE THE BIDDER IS AN ORIGINAL EQUIPMENT MANUFACTURER (OEM):</u>		
2.1	The bidder must comply to the following:		
2.2	The bidder (OEM) should have at least 5 (five) years of manufacturing experience of cable less seismic data acquisition system preceding the original Bid Closing date of the tender.		
2.3	In addition to above, the bidder (OEM) should have supply experience of successfully executing at least 01 (one) such latest state of the art systems with minimum 6000 channels to various clients (<i>other than their own subsidiaries/sister concerns</i>), either directly by them or through their authorized dealers/distributor/ supplier/subsidiaries, during last 5 (five) years preceding the original bid closing date of the tender.		
2.4	Documentary evidence to substantiate supply records must be submitted in the form of copies of relevant Purchase Order(s) and any one of the following documents evidencing satisfactory execution of those Purchase Order(s), such as: (i) Satisfactory supply / completion / installation report (OR) (ii) Bill of Lading, Commercial Invoice / Payment Invoice (OR)		

	<p>(iii) Consignee receipt / delivery receipt (OR)</p> <p>(iv) Central Excise Gate Pass/Tax Invoice issued under relevant rules of Central Excise/ Vat/ GST Invoice.</p> <p>(v) Any other documents which shall prove that the bidder has successfully executed such order (s).</p> <p>Note: For Clause 2.1: Declaration from OEM needs to be submitted. For Clause 2.2: The Purchase Order date need not be within 5 (five) years preceding original bid closing date of this tender. However, the execution of supply should be within 5 (five) years preceding original bid closing date of this tender.</p>		
3.0	<u>IN CASE, THE BIDDER IS AN AUTHORIZED DEALER/ AUTHORIZED DISTRIBUTOR / AUTHORIZED SUPPLIER/ WHOLLY OWNED SUBSIDIARY OF OEM:</u>		
	The bidder must fulfil the following requirements:		
3.1	The bidder's OEM (the principal) should have at least 5 (five) years of manufacturing experience of cable less seismic data acquisition system proceeding the original Bid Closing date of the tender.		
3.2	<p>In addition to above, the bidder themselves should have supply experience of successfully executing at least 01 (one) such latest state of the art systems with minimum 6000 channels to various clients, during last 5 (five) years preceding the original bid closing date of the tender.</p> <p style="text-align: center;">OR</p> <p>The bidder's OEM (for the quoted item) must have experience of successfully executing, either by themselves or through their authorized agent/ dealer/ distributor/ supply house/authorized system house, at least 01 (one) such latest state of the art systems with minimum 6000 channels to various clients (<i>other than their own subsidiaries/sister concerns</i>), during last 5 (five) years preceding the original bid closing date of the tender.</p>		
3.3	<p>Documentary evidence to substantiate supply records must be submitted in the form of copies of relevant Purchase Order(s) and any of the following documents evidencing satisfactory execution of those Purchase Order(s), such as:</p> <p>(i) Satisfactory supply / completion / installation report (OR)</p> <p>(ii) Bill of Lading, Commercial Invoice / Payment Invoice (OR)</p> <p>(iii) Consignee receipt/ delivery receipt (OR)</p> <p>(iv) Central Excise Gate Pass/Tax Invoice issued under relevant rules of Central Excise/ Vat/ GST Invoice.</p> <p>(v) Any other documents which shall prove that the bidder has successfully executed such order (s).</p> <p>Note: For Clause 3.1: Declaration from OEM needs to be submitted. For Clause 3.2: The Purchase Order date need not be within 5 (five) years preceding original bid closing date of this tender. However, the execution of supply should be within 5 (five) years preceding original bid closing date of this tender</p>		
3.4	The bidder shall submit valid Authorization Certificate/Letter issued by its Original Equipment Manufacturer (OEM), confirming the Bidder's status as their authorized supplier/dealer/distributor/wholly owned subsidiary (as the case		

	<p>may be) to sell their products with proper warranty and guarantee back -up. Such authorization certificate/ letter shall be valid for the entire period of execution of the order. Offers shall be rejected straightway, if such authority letter is not submitted along with the technical bid.</p>		
	<p>NOTES TO BIDDER:</p> <p>a. Authorization letter must be issued on the official letter head of the OEM clearly mentioning the status of Bidder i.e., whether ‘authorized dealer’ or ‘authorized distributor’ or ‘authorized supplier’ or wholly owned subsidiary of Original Equipment Manufacturer (OEM), failing which the bid shall not be considered for evaluation and in that case the offer shall be rejected straightway.</p> <p>b. Authorization letter issued by the OEM in any other form such as Direct Chanel Partner /Indirect Chanel Partner/Chanel Partner/ seller/ Reseller/Sub Dealer / Sub Distributor/Sister Concern shall not be considered for bid evaluation and the offer shall be rejected.</p> <p>c. In case the bidder is a wholly owned subsidiary company of the parent company (OEM), in addition to the authorization letter including warranty/guarantee back-up, the bidder shall also upload/ submit the documents such as board resolution/certificate of incorporation/any other legal certificate along with their offer that would establish the relation between the parent company with the subsidiary company without which the bid will not be evaluated and will be rejected straightway.</p>		
<p>4.0</p>	<p>Bidders showing supply experience towards supply to its sister concern/ subsidiaries shall not be considered as experience for the purpose of meeting BRC.</p>		
<p>5.0</p>	<p>Bidder/OEM must submit an undertaking along with the Technical Bid that their offered equipment is not going to become obsolete during the next 5 (five) years from the date of successful installation & Commissioning, if order is awarded on them by OIL and must guarantee uninterrupted supply of spares and availability of services for at least for ten (10) years with effect from the successful installation & Commissioning of the equipment, without which offer will not be considered for evaluation/placement of order.</p>		
<p>6.0</p>	<p>DELIVERY PERIOD:</p> <p>Delivery of the materials must be completed within the 180 days from the date of issue of Purchase order. The date of receipt of all materials at site shall be considered as the date of delivery.</p> <p>The commissioning engineers should be available at site within 45 days of the intimation given by OIL for commissioning the equipment and the commissioning should be completed within 28 days.</p> <p>OIL shall intimate the successful bidder for the installation & commissioning within 1(one) week of completion of delivery of entire materials.</p> <p>Bidder to confirm compliance of the above delivery schedule in their technical bid. Bidder quoting delivery period and installation & commission period more that the above shall be liable for rejection.</p>		

A.2	FINANCIAL CRITERIA		
1.0	<p>The bidder shall have an annual financial turnover of minimum INR 53,47,69,583.50 during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender.</p> <p><i>[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)].</i></p>		
2.0	<p>"Net Worth" of the bidder should be positive for the financial/accounting year just preceding to the original bid closing date of the tender.</p> <p><i>[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"].</i></p>		
3.0	<p>Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying (PROFORMA – A) that ‘the balance sheet/Financial Statements for the financial year (As the case may be) has actually not been audited so far’.</p> <p>Note:</p> <p>a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-</p> <p style="padding-left: 40px;">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.</p> <p style="padding-left: 40px;">OR</p> <p style="padding-left: 40px;">ii) Audited Balance Sheet along with Profit & Loss account.</p> <p>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.</p>		

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 of Balance Sheet and Profit & Loss Account. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.		
5.0	<p>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:</p> <ul style="list-style-type: none"> (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 (<i>except the documents specifically called for in hard copies, if any</i>). Also, modifications to bids received after the bid closing date & time shall not be entertained.		
4.0	Bids containing incorrect/false/misleading statement(s) shall be rejected.		
5.0	Validity of the bid shall be minimum 120 days from the date of actual Bid Closing Date. Bids with lesser validity shall be straightway rejected.		
6.0	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 Security @5% 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).		

<p>8.0</p>	<p>Bids must be accompanied by Bid Security for the amount as mentioned in the tender document and shall be in the prescribed format (PROFORMA – I) if submitted in the form of Bank Guarantee (BG). <u>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</u>, 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. Bid Security if submitted in the form of BG/e-PBG must be valid at least for a period of 165 days from the date of original bid closing date of the tender.</p> <p>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.</p> <p>The amount of Bid Security (EMD) must be strictly as specified in the tender document. Bid shall be rejected without further reference, if the Bid Security (EMD) is not received strictly as above, except where exempted. OIL will not assume any responsibility whatsoever for submission of deficient/faulty Bid Security or for delay/non-delivery of the same (Please refer Annexure – III: GENERAL NOTES TO BIDDERS).</p>		
<p>9.0</p>	<p>Bid must be uploaded together with the Integrity Pact (<i>If applicable against the tender</i>) 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).</p>		
<p>10.0</p>	<p>Bidders shall accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection:</p> <ul style="list-style-type: none"> i) Liquidated Damages ii) Warranty/Guarantee of material iii) Arbitration / Resolution of Dispute iv) Force Majeure v) Applicable Laws 		
<p>11.0</p>	<p>A bid shall be rejected straightway if it does not conform to any one of the following clauses:</p> <ul style="list-style-type: none"> 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. 		