

INDIA LIMITED
(A Govt. of India Enterprise)
4, India Exchange Place,
Kolkata – 700 001.
E-mail : oilcalmn@oilindia.in
INVITATION FOR BID
NATIONAL COMPETITIVE BID

OIL INDIA LIMITED invites National Competitive Bid through its e-procurement portal – <https://etender.srm.oilindia.in/iri/portal> for the following items :-

E-Tender No.	Bid Closing Date	ITEM
SKI9758P19/03	18.12.2018	Supply , installation & commissioning of Generating set

Period of sale of documents, Bid Closing / Opening date, the complete bid documents and details for purchasing bid documents, participation in e-tenders etc. are available on OIL's e-procurement portal <https://etender.srm.oilindia.in/iri/portal> as well as OIL's website <http://www.oil-india.com/>.

No separate notification shall be issued in the press. Bidders should regularly visit above website and e-portal to keep themselves updated.



OIL INDIA LIMITED
(A Government of India Enterprises)
4, India Exchange Place
Kolkata -700001

TELEPHONE NO. (033) 22301657

FAX NO: (033) 22302596

Email: kolpur1@oilindia.in

FORWARDING LETTER

Tender No & Date	:SKI 9758 P19/03
Tender Fee	: NIL (PLEASE REFER TO DOCUMENT-'SPECIAL NOTE')
Bid Security Amount	: Rs. 3,41,500 /-
Bidding Type	: Single Stage Two Bid
Bid Closing on	: As mentioned in the e-portal
Bid Opening on	: As mentioned in the e-portal
Performance Guarantee	: Applicable
Integrity Pact	: Applicable
Delivery Required	: At DULIAJAN, ASSAM

OIL invites Bids for **Supply , Installation & Commissioning of 62.5/63 KVA Generating set** through its E-Procurement site under **SINGLE STAGE TWO BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/CALCUTTA/E-01/2016. The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents. The general details of tender can be viewed by opening the RFx [Tender] under RFx and Auctions. The details of items tendered can be **found in the Item Data and details uploaded under Technical RFx.**

The tender will be governed by:

- a) For technical support on various matters viz. Online registration of vendors, Resetting of Passwords, submission of online bids etc, vendors should contact OIL's ERP-MM Department at following: Tel. No.s = 0374-2807178, 0374-2807171 , 0374-2807192. Email- id = erp_mm@oilindia.in.**
- b) "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders).**
- c) Technical specifications with Quantity and BEC/BRC and Price bid format as per ANNEXURE AAA & ANNEXURE DDD, ANNEXURE BBB and ANNEXURE CCC respectively.**
- d) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.**
- e) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract 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 sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).**

- f) Bidder are advised to fill up the **Undertaking of authenticity of information/documents submitted (Annexure- K), Technical evaluation sheet (Annexure DDD), Technical bid check list (Annexure EEE), Response sheet (Annexure FFF) and Bank Details (Annexure GGG)** given in this bidding document uploaded in Technical RFx -> External Area - > Tender Documents. The above filled up documents to be uploaded in the Technical RFX Response.
- g) Amendments to the NIT after its issue will be published on OIL's website only. Revision, clarification, addendum, corrigendum, time extension etc. to the tender will be hosted on OIL website only. No separate notification shall be issued in the press. Prospective bidders are requested to visit website regularly to keep themselves updated.

Special Note:

1.0 Bidders to take special note of the following conditions:

~~1.1 Against Tender Fee — Payment should be made only through online mode and no other instrument (Cash/DD/Cheques/Cashier Cheque, etc) will be acceptable.~~

~~Vendors who do not have OIL's User ID & password, may generate User ID & password online by the Vendor by using the link for supplier enlistment given in OIL's e tender portal and then pay Tender Fee on line through OIL's electronic Payment Gateway upto one week prior to the Bid closing date (or as amended in e portal).~~ **(PLEASE REFER DOCUMENT-' SPECIAL NOTE')**

1.2 Against Bid Security/EMD/Performance Bank Guarantee – **Only payments through online mode or Submission of Bank Guarantee will be acceptable.** No DD/Cheques/Cashier Cheque or any other mode will be acceptable.

1.3 A) Bidders submitting bank guarantee as **Bid Security** should note that the bank guarantee issued by the bank must be routed through SFMS platform as per following details:

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

The above message / intimation shall be sent through SFMS by the BG issuing bank branch to Axis Bank, Corporate Banking Branch, IFSC Code - UTIB0001164. Branch Address - AXIS Bank Ltd, Corporate Banking Branch, 3rd Floor, AC Market, 1, Shakespeare Sarani, Kolkata 700071."

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

Note : In the event of an order, similar process will be required to be followed by the bidder in case of submission of Performance Security in the form of Bank guarantee.

2.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with Tender no. and Due date to **GM-Kolkata Office, Oil India Limited, 4, India Exchange Place, Kolkata – 700 001** only on or before the Bid Closing Date and Time mentioned in the Tender.

- a) Original Bid Security
 - b) Detailed Catalogue (if any)
 - c) Any other document required to be submitted in original as per tender requirement
- All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in triplicate.

3.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the NIT or submission of offers not substantially responsive to

the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.

4.0 To participate in OIL's E-procurement tender, bidders should have a legally valid Digital Signature Certificate as per Indian IT Act from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India (<http://www.cca.gov.in>). The digital signature should be of Class 3 digital certificate alongwith encryption certificate for the designated individual with organization name. Please also refer **"Guideline to Bidder for participating in OIL"**. All the Bids must be Digitally Signed.

5.0 Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.

6.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. Bidders shall quote accordingly under Single Stage Two Bid System. **The bidders are required to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" through electronic format in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.**

6.1 Please ensure that Techno-commercial Bid / all technical related documents related to the tender are uploaded in the Technical Attachment as shown in the screen shot below. The "TECHNO-COMMERCIAL UNPRICED BID" shall contain all techno-commercial details except the prices. Please note that no price details should be uploaded in Technical Attachment.

6.2 The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Price Bid format/Priced bid can be uploaded as Attachment in the attachment option under "Notes & Attachments" tab as shown in the screen shot below.

A screen shot in this regard is shown below.

Upload Technical Bid / Price Bid.

1.

Area for uploading "Priced Bid" if the detailed price information is "No Price"

Area for uploading "Priced Bid" if the detailed price information is "Price with Condition"

Area for uploading "Techno-commercial Unpriced Bid"

Please do not upload price under "Technical Attachment"

2. On "EDIT" Mode- The following screen will appear. Bidders are advised to Upload "Techno-Commercial Unpriced Bid" and "Priced Bid" in the places as indicated above:

Area for uploading Priced Bid**

Area for uploading TechnoCommercial Unpriced Bid*

"The "Techno-Commercial Unpriced Bid" shall contain all technocommercial details except the prices.

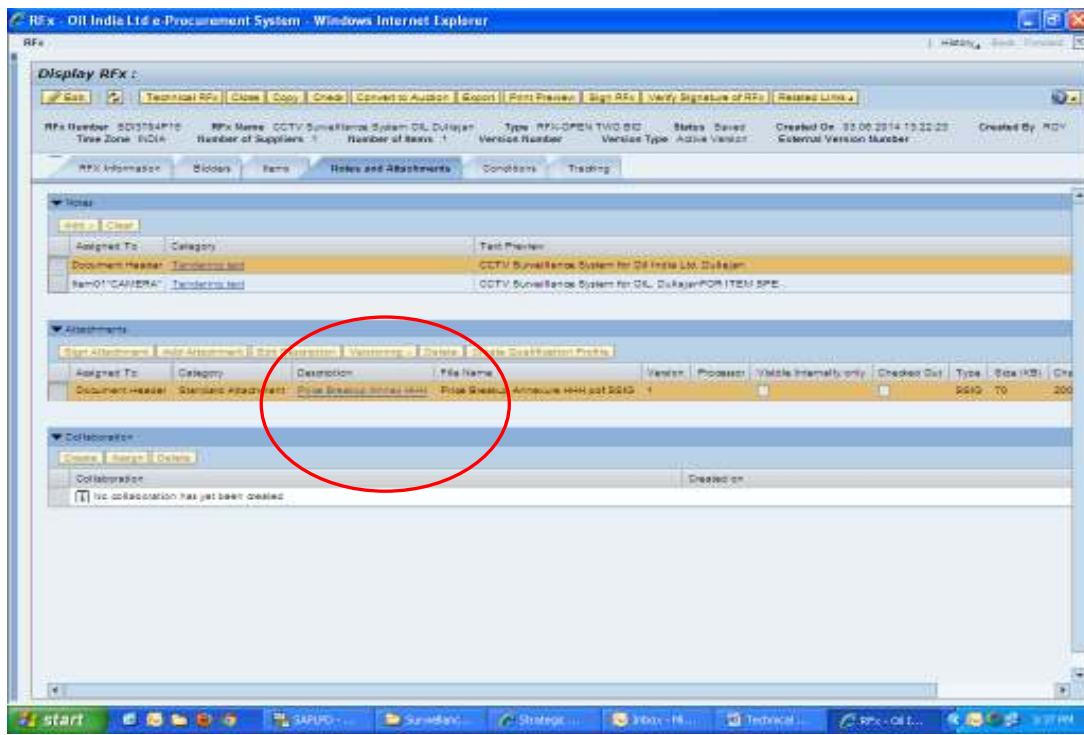
**** Please follow the instructions as per Vendor User Manual for Uploading Price under "Notes and Attachment" or "Condition"**

6.3 Any Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in the tender.

6.4 Only the price-bids of the bidders whose offers are commercially and technically acceptable shall be opened for further evaluation.

6.5 Price Breakup/format:

Bidders should submit the price breakup/format of all the items as per “Annexure CCC” which has been uploaded under “Notes & Attachments” > “Attachments” as shown below. The price breakup/format “Annexure CCC” should be filled up, signed and uploaded under “Notes & Attachments” > “Attachments” only. **The filled up price breakup/format of all the items should not be uploaded in Technical Attachment.**



Please do refer “**NEW INSTRUCTION TO BIDDER FOR SUBMISSION**” for the above two points and also please refer “**New Vendor Manual (effective 12.04.2017)**” available in the login Page of the OIL’s E-tender Portal.



NOTE:

Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

7.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.

8.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed **Annexure-BBB**. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (as per **Annexure-BBB**) contradict the Clauses of the tender and / or "General Terms & Conditions" as per Booklet No. MM/CALCUTTA/E-01/2016 for E- Procurement of Indigenous Tenders elsewhere, those in the BEC / BRC shall prevail.

9.0 Please do refer the User Manual provided on the portal on the procedure-How to create Response for submitting offer.

10.0 In order to bid for OIL e-tenders all the vendors are required to obtain a legally valid Digital Certificate Class III [Organization] along with encryption certificate as per Indian IT act from the licensed certifying authorities(CA) operating under the root certifying Authority of India (RCAI), controller of certifying authorities (CCA) of India. Digital Signature Certificate comes in a pair of Signing/Verification and Encryption /decryption certificate. Bidder should have both the Signing/Verification and Encryption /decryption certificate for signing and Encryption, decryption purpose respectively. The driver needs to be installed once, without which the DSC will not be recognized. While participating on e-Tendering the DSC token should be connected to your system.

Encryption certificate is mandatorily required for submission of bid. In case bidder created response with one certificate (using encryption key) and bidder change his Digital Signature Certificate then old certificate (used for encryption) is required in order to decrypt his encrypted response for getting the edit mode of the response. Once decryption is done, bidder may use new DSC certificate for uploading and submission of their offer. It is the sole responsibility of the bidder to keep their DSC certificate properly. In case of loss of the certificate, OIL INDIA LIMITED is not responsible.

11.0 ~~For exemption for tender fee, please refer Clause No. 3.3 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E procurement (LCB Tenders).~~
{PLEASE REFER DOCUMENT-' SPECIAL NOTE'}

12.0 Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

13.0 In addition to the existing clause of accepting Bid Security and Performance Security in the form of Bank Guarantee in Para No. 8.2 and 9.3 in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders) to include the below mention point as well:

"#Bank Guarantee issued by a Scheduled Bank in India at the request of some other Non - Scheduled Bank of India shall not be acceptable."

14.0 **The Integrity Pact is applicable against this tender.** OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **Annexure XII** of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid.

Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid.

The name of the OIL's Independent External Monitors at present are as under:

SHRI RAJIV MATHUR, IPS (Retd.)

Former Director, IB, Govt. of India,

e-Mail ID : rajivmathur23@gmail.com

SHRI SATYANANDA MISHRA, IAS (Retd.)

Former Chief Information Commissioner &

Ex-Secretary, DOPT, Govt. of India

E-Mail ID :

satyanandamishra@hotmail.com

SHRI JAGMOHAN GARG,

Ex-Vigilance Commissioner, CVC

e-Mail id : jagmohan.garg@gmail.com

15.0 The items covered by this Tender shall be used by Oil India limited in the PEL / ML areas which are issued / renewed after 01/04/99 and hence bidder shall be eligible for concessional rate of GST against Essentiality Certificate for Invoice valuing INR 10 lakh & above. The supplier shall arrange to provide all necessary documents to apply for essentiality certificate from DGH. Supplier shall affect despatch only on receipt of this certificate from OIL, failing which all related liabilities shall be to supplier's account.

16.0 CLAUSES RELATED TO GST

(A) Taxes:

- i. For the purposes of levy and imposition of GST, the expressions shall have the following meanings:
 - (a) GST - means any tax imposed on the supply of goods and/or services under GST Law.
 - (b) Cess - means any applicable cess, existing or future on the supply of Goods and Services as per Goods and Services Tax (Compensation to States) Act, 2017.
 - (c) GST Law - means IGST Act 2017, CGST Act 2017, UTGST Act, 2017 and SGST Act, 2017 and all related ancillary Rules and Notifications issued in this regard from time to time.
- ii. The rates quoted by the bidders shall be inclusive of all taxes, duties and levies. However, bidders are required to provide separately the rate and amount of all types of taxes, duties and levies. In case, the quoted information related to various taxes, duties and levies subsequently proves wrong, incorrect or misleading, OIL will have no liability to reimburse the difference in the duty/tax, if the finally assessed amount is on the higher side and OIL will have the right to recover the difference in case the rate of duty/ taxes finally assessed is on the lower side. Further, bidders have to clearly show the amount of GST separately in the Tax invoices. Further, it is the responsibility of the bidders to make all possible efforts to make their accounting / IT system GST compliant in order to ensure availability of Input Tax Credit (ITC) to Oil India Ltd.
- iii. Offers without giving any of the details of the taxes (including rates and amounts) as specified above will be considered as inclusive of all taxes including GST. When a bidder mentions taxes as extra without specifying the rates and amount, the offer will be loaded with maximum value towards taxes received against the tender for comparison purposes. If the bidder emerges as lowest bidder after such loading, in the event of order on that bidder, taxes mentioned by OIL on the Purchase Order/ contracts will be binding on the bidder.
- iv. Bidder is required to pass on the benefit arising out of introduction of GST, including seamless flow of Input Tax Credit, reduction in Tax Rate on inputs as well as final goods by way of reduction of price as contemplated in the provision relating to Anti-Profiteering Measure vide Section 171 of the CGST Act,

2017. Accordingly, for supplies made under GST, the bidder must confirm that benefit of lower costs has been passed on to OIL by way of lower prices/taxes and must also provide details of the same as applicable. OIL reserves the right to examine such details about costs of inputs/input services of the bidder to ensure that the intended benefits of GST have been passed on to OIL.

- v. Statutory variation (increase/decrease) of GST within the contractual delivery period will be to the account of OIL subject to documentary evidence. However, any increase in statutory levy after the expiry of the scheduled date of delivery shall be to the supplier's account.
- vi. Bidder agrees to do all things but not limited to providing GST compliant Tax Invoices or other documentation as per GST law relating to the supply of goods and/or services covered in the instant contract like raising of and /or acceptance or rejection of credit notes / debit notes as the case may be, payment of taxes, timely filing of valid statutory Returns for the tax period on the Goods and Service Tax Network (GSTN), submission of general information as and when called for by OIL in the customized format shared by OIL in order to enable OIL to update its database etc. that may be necessary to match the invoices on GSTN common portal and also for claiming input tax credit in relation to any GST payable under this Contract or in respect of any supply under this Contract.
- vii. In case Input Tax Credit of GST is denied to OIL or demand is recovered from OIL by the Central / State Authorities on account of any non-compliance by Bidder/Supplier, including non-payment of GST charged and recovered, the Bidder/Supplier shall indemnify OIL in respect of all such claims of tax, penalty and/or interest, loss, damages, costs, expenses and liability that may arise due to such non-compliance. OIL, at its discretion, may also withhold/recover such an amount demanded and recovered by the authorities/ state authorities from the pending payments of the Bidder/Supplier.
- viii. GST liability, if any on account of supply of free samples against any tender/purchase order (wherever applicable) shall be to bidder's/ supplier's account.

Yours Faithfully,

(Aparajita Gogoi)
Sr. Manager Materials (P)
For GM-Kolkata Office

Annexure - AAA

TECHNICAL SPECIFICATIONS WITH QUANTITY

SLNO & MATERIAL CODE NO.	MATERIAL DESCRIPTION.	QUAN TITY	UOM
10 ----- 0C000242	Diesel Generating set of capacity 62.5/63 KVA complete with Diesel Engine, Alternator, Electric Control Panel and Acoustic Enclosure, Quantity: 12 (twelve) nos. [11 NOS FOR C&WO SECTION FOR- WHS VIZ-NLH-1,DGP-1,CJ-1,CL-1,TAF-1,TAD-1,HVU-1,MKD-1,CH-1,MKB-1, AND CONTINGENCY REQUIREMENT-1] Detail description is given in the annexure- DDD	12	NOS
20	INSTALLATION & COMMISSIONING	1	AU

Note:

1.0 Delivery of all items must be completed within 6 (six) months from date of firm placement of order. The installation and commissioning work of the order that are with the scope of the supplier must be completed within 3(three) months from date of delivery. Bidder to confirm the same while quoting.

2.0 The bidder must submit the offer in the attached format i.e. annexure-DDD by duly filling up the "Bidder's Remarks" column (extra sheet if required may please be attached).

Annexure-BBB
BID REJECTION & BID EVALUATION CRITERIA

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

A. BID REJECTION CRITERIA (TECHNICAL)

- (1) The diesel engine shall conform to IS10000/ISO 3046/BS 5514 standards (amended up to date) in design and shall meet the latest norms of the Environment (protection) Act 1986 (CPCB II) for emission and noise level. The bidder shall furnish Type Approval and Conformity of Product certificates from the authorized agencies for certification.
- (2) The rated output of the diesel engine shall be not less than 80 BHP (gross) at 1500 RPM and STP condition and it should be suitable for driving a generator rated for 62.5/63 KVA output prime duty and G2 performance as per ISO 8528-5.

Note: Bidder shall provide standard manufacturer's catalogue as documentary evidences in support of the engine ratings/outputs specified in clause (2) above.

- (3) The offered engine (Make & Model) must be proven in generator set application and the bidder shall furnish documentary evidence of PTR (proven Track record) with the technical bid.
- (4) Bidder shall be an Original Equipment Manufacturer or its authorized dealer of any of the following 3 (three) items offered:
 - a) Generating set
 - b) Engine
 - c) Alternator

Note:

- i) Valid OEM or Authorized Dealership Certificate, as the case may be, shall be submitted in the technical bid by the bidder.
- ii) If the engine or the alternator or both the engine and alternator are bought-out item for a bidder, it must be purchased from the respective OEM or their authorized dealer only.

An undertaking shall be submitted by the bidder along with the technical bid that supporting documentary evidence of such purchase(s) shall be furnished during the pre-dispatch inspection in the event of order.

- (5) The bidder must have experience of successfully executing at least one order for Rs.85,37,496/- for generating sets of any capacity between 30KVA to 250KVA during the last 5(five) years before the bid closing date (to be reckoned from the original bid closing date) of this tender to organizations namely PSU (State/Central Government of India) or State/Central Govt. Department of India or any other public Limited company.

The bidder must furnish customer's purchase order copy with invoices in support of its experience.

Note: A job executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC.

Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.

B) BID REJECTION CRITERIA (FINANCIAL) :

1.0 Annual Financial Turnover of the bidder during **any of preceding three financial / accounting years from the original bid closing date** should be at least **Rs. 85,37,496/-**

1.1 Net worth of bidder must be positive for preceding financial/ accounting year.

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

i) A certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in **ANNEXURE-B**.

OR

ii) Audited Balance Sheet along with Profit & Loss account."

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.

Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.

C) COMMERCIAL:

Commercial Bid Rejection Criteria will be as per "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 with following Special Bid Rejection Criteria.

1.0 Bids are invited under **Single Stage Two Bid System**. Bidders shall quote accordingly under Single Stage Two Bid System. **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, which shall be kept blank. The "Price Bid" must contain the price schedule and the bidder's commercial terms and conditions. Bidder not complying with above submission procedure will be rejected. **Technical RFx Response folder is meant for Technical bid only. Therefore, No price should be given in Technical RFx Response folder, otherwise the offer will be rejected.**

The bidder has to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" bid through electronic form in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.

1.1 In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that "TECHNO-COMMERCIAL UNPRICED BID" should contain details as mentioned in the technical specifications as well as BEC/ BRC , techno- commercial details including quantity offered except prices which shall be kept blank and upload the same in the Technical RFX Response-> User - > Technical Bid. **No price should be given in above Technical Rfx otherwise the offer will be rejected.** Please go through the help document in details before uploading the document and ensure uploading of technical bid in the Technical RFX Response-> User - > Technical Bid only. The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. **Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under "Notes & Attachments". Priced bids of only those bidders will be opened whose offers are found to be techno-commercially acceptable.**

2.0 Bid security of Rs. 3,41,500 /- shall be furnished as a part of the TECHNICAL BID (refer Clause No. 8.0 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders)). The Bid Security may be submitted manually in sealed envelope superscribed with Tender no. and Bid Closing date to CGM-KOLKATA OFFICE, OIL INDIA LIMITED, 4 INDIA EXCHANGE PLACE, ICC BUILDING, 4TH FLOOR, KOLKATA – 700001, INDIA on or before the Bid Closing Date and Time mentioned in the Tender.

Bid Security may also be paid online on or before the Bid Closing Date and Time mentioned in the Tender.

A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

2.1 For exemption for submission of Bid Security, please refer Clause No. 8.16 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders).

2.2 The Bank Guarantee towards Bid Security shall be valid upto 16.07.2019. (i.e. 90 days from the Bid Validity)

3.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. Validity of the performance security shall be valid for 90 days beyond contract period/duration and applicable warranty/guarantee/defect liability period (if any). Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.

4.0 The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.

5.0 Validity of the bid shall be minimum 120 days from the Bid Closing Date. Bids with lesser validity will be rejected.

6.0 Bids containing incorrect statement will be rejected.

7.0 No offers should be sent by Telex, Cable, E-mail or Fax. Such offers will not be accepted.

8.0 All the Bids must be Digitally Signed using "Class 3" digital certificate (e-commerce application) with Bidder's organization name as per Indian IT Act obtained from the licensed Certifying Authorities operating

under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than “Class 3” digital certificate with Bidder’s organization name, will be rejected.

9.0 The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.

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

11.0 Bidders are required to submit the summary of the prices in their Commercial (Priced) bids as per bid format (Summary), given in **Annexure CCC** below :

ANNEXURE –CCC

PRICE SCHEDULE

Tender No.: _____

	Item No.	
	HSN Code	
	Basic material Value (Unit Rate)	In Rupees
	Quantity	
A.	Total Basic Material Value (Unit rate x Quantity)	
B.	Pre-despatch Inspection charges, if any	
C.	Packing and forwarding charges, if any	
D.	Total Ex-works value (A+B+C)	
E.	GST on (D)	
F.	Compensatory Cess, if any	
G.	Total FOR Despatching Station Value (D+E+F)	
H.	Freight Charges upto destination	
I.	GST on freight charges	
J.	Insurance charges inclusive of GST	
K.	Installation & Commissioning Charges, if any	
L	GST on I & C charges	
M	Total FOR Destination Value (G+H+I+J+K+L)	In Rupees

Gross weight of the total consignment
Gross volume of the total consignment
Name of Despatching Station
Delivery Period
Validity
Payment terms
Name of original manufacturer
Other terms if any

Name of Bidder
Full Name :
Address :
Date :

Note:

1. Bidders must quote Freight Charges upto destination specified in tender. In case bidder fails to quote inland freight charges, highest freight quoted by the other bidder (considering pro-rata distance) against this tender or OIL's estimated freight , whichever is higher, shall be loaded to their offer for comparison purpose.
2. Inspection Charges (Ref. B) and I&C Charges (Ref K & L) are to be quoted wherever specifically asked for in the tender.
3. Other clauses on Goods & Service Tax shall be applicable as incorporated elsewhere in this tender.

II) BID EVALUATION CRITERIA

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

1.0 The evaluation of bids will be done as per the Price Schedule (SUMMARY) detailed vide **Para 11.0** of Bid Rejection Criteria.

2.0 If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.

3.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be done on FOR Destination basis, subject to corrections / adjustments given herein.

4.0 In case any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) mentioned here contradict the Clauses in the General Terms & Conditions of the Tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

COMMERCIAL CHECKLIST*(To be filled up and submitted along with the bid)*

Tender no.	
Bidder's name	

SL. NO.	BEC / TENDER REQUIREMENTS	COMPLIANCE BY BIDDER	
		Indicate 'Confirmed'/'Not Confirmed' /Not applicable	Indicate Corresponding page ref. of unpriced bid or Comments
1	Confirm that validity has been offered as per NIT.(120 days from BC date)		
2	Confirm that Bid Security / Earnest Money has been submitted as per NIT (Wherever Applicable)?		
2.1	Confirm that original bid bond guarantee has been submitted in format MENTIONED IN NIT.		
3	Confirm that you shall submit Performance security as per NIT (in the event of placement of order) (Wherever Applicable)?		
4	Confirm that duly signed Integrity Pact has been submitted as per NIT?		
5	Confirm that you have submitted documentary evidence as per BRC Technical		
6.1	Confirm that you have submitted proof of annual turnover and net worth certified by a chartered accountant (with membership number and Firm registration number) .		
6.2	Confirm that you have submitted affidavit/undertaking (wherever applicable) as mentioned in bid rejection criteria (financial) in Annexure -BBB		
7	Confirm that the offers and all attached documents are digitally signed using Class 3# digital certificate (e-commerce application) in Organization Name issued by an acceptable Certifying Authority (CA) as per Indian IT. Act 2000.NIT.		
8	Confirm that you have not taken any exception/deviations to the NIT.		
9.	Confirm that the product offered strictly conform to the technical specifications.		
10	Confirm that the prices offered are firm. <i>(Conditional offer shall be liable for rejection.)</i>		
11.	Confirm that you have submitted undertaking of authenticity of information/documents as per annexure-		

NOTE: Please fill up the greyed cells only.

Bidders Response Sheet- Annexure FFF

No.	Tender No.	
	Bidders Name	
Sl	Description	Remarks
1	Place of Despatch	
2	Whether Freight charges have been included in your quoted	
3	Whether Transit Insurance charges have been included in your	
4	Make of quoted Product	
5	Offered Validity of Bid as per NIT	
6	Bid Security Submitted (if applicable)	
6	Details of Bid Security Submitted to OIL (if applicable)	
	a) Bid Security Amount (In Rs):	
	b) Bid Security Valid upto:	
7	Whether you shall submit Performance Security in the event of placement of order on you	
8	Integrity Pact Submitted	
9	Delivery Period in weeks from placement of order	
10	Complied to Payment terms of NIT (if applicable) otherwise to Standard	
11	If bidder is MSE whether you have quoted your own product	
12	If bidder is Small scale unit, whether you are owned by SC/ST	
13	If Bid security submitted as Bank Guarantee, Name and Full Address of Issuing Bank including Telephone, Fax Nos and Email id of branch manager	
14	Confirm that the Bid Security submitted (In case of Bank Guarantee) is in toto as per format provided in the bidding	
15	Bid Security if Not submitted, reasons thereof	

NOTE: Please fill up the greyed cells only.

**(TO BE FILLED UP BY ALL THE VENDOR IN THEIR OWN LETER HEAD)
(ALL FIELDS ARE MANDATORY)**

Tender No. :.....
Name of Beneficiary :M/s.....
Vendor Code :.....
Address :.....
Phone No. (Land Line) :.....
Mobile No. :.....
E-mail address :.....
Bank Account No. (Minimum
Eleven Digit No.) :.....
Bank Name :.....
Branch :.....
Complete Address of your :.....
Bank :.....
IFSC Code of your Bank
a) RTGS :.....
b) NEFT :.....
PAN :.....
VAT Registration No. :.....
CST Registration No. :.....
Service Tax Registration No. :.....
Provident Fund Registration :.....

I/We confirm and agree that all payments due to me/us from Oil India Limited can be remitted to our above mentioned account directly and we shall not hold Oil India Limited responsible if the amount due from Oil India Limited is remitted to wrong account due to incorrect details furnished by us.

Office Seal
Signature of Vendor

Counter Signed by Banker:
Seal of Bank:

Enclosure: Self attested photocopies of the following documents-

- 1) PAN Card
- 2) VAT Registration Certificate
- 3) Service Tax Registration
- 4) CST Registration
- 5) Provident Registration Certificate
- 6) Cancelled cheque of the bank account mentioned above (in original).
- 7) Bank Statement not older than 15 days on the date of submission.

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

Ref. No _____

Date _____

Sub: Undertaking of authenticity of information/documents submitted

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

To,
The General Manager-Kolkata Office
Oil India Limited
Kolkata

Sir,

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

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

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

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

Signature of Authorised Signatory

Name :

Designation :

Phone No.

Place :

Date :

(Affix Seal of the Organization here, if applicable)

ANNEXURE-B

CERTIFICATE OF ANNUAL TURNOVER & NET WORTH

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

TO WHOME IT MAY CONCERN

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

YEAR	TURN OVER In INR (Rs)	NET WORTH In INR (Rs)

Place:

Date:

Seal:

Membership No..

Registration Code:

Signature:

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:

1. 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.
2. 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.
3. 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 Page 2 of 6 substantive suspicion in this regard, the Principal will inform its Vigilance Office 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.

1. 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.

2. 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.

3. The Bidder/Contractor will not commit any offence under the relevant Anticorruption Laws of India; further the Bidder/Contractor 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.

4. 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.

(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 credibility 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

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.

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.

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, i.e. New Delhi. **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 is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.

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.

Mrs. A. Gogoi

.....
For the Principal

.....
For the Bidder/Contractor
Witness 1:

Witness 2:

Place. Kolkata
Date . 15.11.2018

Annexure- DDD Specifications of 62.5/63KVA DG Set (SKI 9758P19/03)

Instruction to Bidders: Bidders should response to each and every clause of the technical specification here under in the space provided in the table below:

Clause No.	Group/ sub-group	Details descriptions/specifications	Bidder's Remarks: Complied/ Not complied/ Deviation (To Attach Separate Sheet if necessary)
1.0	General Technical requirement	<p>DETAILED SPECIFICATION FOR ALTERNATOR, DIESEL ENGINE AND CONTROL PANEL:-</p> <p>Diesel Generating set of capacity 62.5/63 KVA complete with Diesel Engine, 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 (oil-field skid type).</p> <p>DG Set shall meet the requirements of environmental protection rules, 1986 as laid down by Ministry of Environmental & Forest read with GSR 371(E) dated 17.05.2002, GSR 520(E) dated 01.07.2003 , GSR 448(E) dated 12.07.2004 , GSR 771 (E) dated 11.12.2013 & GSR 232 (E) dated 31.03.2014 ,Gazette Notification No. 167 dated. 31.03.2014 and Gazette Notification No. 578 dated. 11.11.2014 amended upto date, in respect of "emission norms" for the engine and in respect of "noise norms" for DG sets.</p>	
2.0	Specification of Alternator	<p>(1) Brushless type alternator of suitable KVA rating when coupled to suitable water cooled/ air cooled Diesel Engine shall develop 63 KVA at 3 phases, 0.8 power factor, 415 Volt when running at 1500 rpm under NTP conditions.</p> <p>(2) Make: Crompton Greaves/Stamford/Kirloskar/NGEF/ABB/Kato/Caterpillar</p> <p>(3) Rated Output: 62.5 To 63 kVA continuous rating at 0.8 PF at specified ambient conditions.</p> <p>(4) Rated Voltage: 415 Volts, Phase-to-Phase.</p> <p>(5) Phase: 3, (4 wire) i.e. neutral point has to be brought out to terminal box.</p> <p>(6) Type : Brush less</p> <p>(7) Frequency rated / cycle : 50 Hz</p> <p>(8) Rated power factor : 0.8 lagging</p> <p>(9) No. of Poles : 4</p>	

		<p>(10) Class of insulation : Class F/H, Temp rise limited to Class B.</p> <p>(11) RPM : 1500</p> <p>(12) Phase sequence : UVW</p> <p>(13) Conform to: IS: 4722, IS: 13364 with latest amendments.</p> <p>(14) Rating : Continuous duty suitable for Motor loads.</p> <p>(15) Connection : Y (Star)</p> <p>(16) Ambient : 45 °C max, 5° C min, RH 98%</p> <p>(17) Alternator Enclosure Protection: IP 23</p> <p>(18) Alternator Terminal Box Protection: IP 54</p> <p>(19) Mounting : Foot mounted</p> <p>(20) Excitation system: Brush less, self-excited, self-regulated with solid state AVR. Voltage characteristics-VG3 as per Table-1, IS-13364 (Part-2). Exciters shall be rated 1.25 times the full load (rated) conditions. The brush less alternator shall have exciter and rotating rectifier-bridge mounted on shaft complete with diodes and surge suppressor, main field windings and stator windings. PIV of exciter diodes must be 800v or 8 times the maximum exciter armature operating voltage, whichever is higher. At nominal speed the excitation system must produce sufficient residual voltage in order to ensure self-excitation.</p> <p>(21) AVR: Automatic voltage regulator should be mounted with approved rubber bushes under AVR mounting holes to reduce vibration. AVR shall be suitable for motor loads, VG3 regulation. In the event of any fault due to over voltage/high bearing temperature/high winding temperature, or an external fault, the AVR shall remove the excitation voltage to the alternator. An emergency trip PB shall also be provided.</p> <p>(22) Permissible voltage variation: As per Table-1, IS-13364 (Part-2)</p> <p>(23) Permissible Waveform deviation: As per IS-13364 (Part-2)</p> <p>(24) Permissible frequency variation: As per IS-13364(Part-2)</p> <p>(25) Permissible Unbalanced current: As per IS-13364 (Part-2)</p> <p>(26) Permissible Short circuit current: As per IS-13364 (Part-2)</p> <p>(27) Frame size : Bidder to confirm</p> <p>(28) Permissible voltage swing (Transient response): As per IS-13364 (Part-1/2)</p> <p>(29) Permissible harmonic distortion factor: As per IS-13364 (Part-1/2)</p> <p>(30) Permissible vibration: As per IS-12075</p> <p>(31) Motor starting ability : 200 % of FLC for 10 sec with max. voltage dip of 20%.</p> <p>(32) Cooling: Air cooled by integral fan</p> <p>(33) All windings should be made from electrolytic grade copper of high purity</p> <p>(34) The alternator shaft should be supported on rolling element bearings at DE and NDE. Single bearing design will also be considered.</p> <p>(35) The brushless alternator shall be composed of 3 phase AC exciter with rotating diodes, surge suppressor, static voltage regulator with voltage adjuster potentiometer, main field windings and stator windings. PIV of exciter diodes must be minimum 6 times the maximum exciter armature operating voltage or 1200v whichever is higher. All windings should be made from electrolytic grade copper of high purity.</p> <p>(36) Voltage swing (Transient response) when rated load is suddenly switched on: As per IS: 13364 (Part-2)</p> <p>(37) The alternator should be capable of sustaining a 10 % over load for one hour in any 12 hours operation.</p>	
--	--	---	--

		<p>(38) The alternator should be capable of withstanding 1.2 times the rated speed without any damage.</p> <p>(39) The alternator should be capable of continuous operation over a range of 110 % of rated voltage.</p> <p>(40) Automatic voltage regulation ± 0.5 % to ± 1.0 % from no load to full load.</p> <p>(41) Total harmonic distortion factor should be less than 3 % between phases at no load.</p> <p>(42) Alternator stator winding terminals are to be connected to 4 nos. of suitably rated terminals supported on sheet molding compound (SMC) supports inside the alternator terminal box.</p> <p>(43) The alternator terminal box should be suitable and should have sufficient space for terminating one no 4 core X 35 sq.mm, 1000V grade PVC insulated and PVC sheathed, armored / screened, stranded copper cable. Separate cable box shall be provided for supporting power cable. Suitable size of cable gland should be fitted in the terminal box. Cable gland and entry hole shall also be required for AVR cables.</p> <p>(44) 02 (two) nos. of earth studs are to be provided on both sides of the alternator.</p> <p>(45) Lifting hooks are to be provided for lifting the alternator.</p> <p>(46) Automatic voltage regulator should be mounted in the control panel with approved rubber bushes under AVR mounting holes to reduce vibration. AVR should have under speed, over excitation protection features.</p> <p>(47) Alternator windings and AVR should be suitable for humid atmosphere as per ambient conditions mentioned in the enquiry. AVR should be suitable for motor load duty.</p> <p>(48) Bidder to mention efficiency of the alternator at 25 %, 50 %, 80 % and 100% load at 0.8 pf.</p> <p>(49) Alternator frame should be made from MS or Cast steel.</p>	
3.0	Specification of Control Panel	<p>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, 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 hardware with heavy plain and spring washers. The panel doors should have neoprene rubber gasket. The panel should be designed and manufactured as per IS-8623. Suitable wire mesh should be provided on the inner side of the louvers to prevent entry of insects. The metal surface of the panel should be given minimum seven tanks anti corrosion treatment and then powder coated. The bottom cable entry plate should be at suitable height (min. 300mm) from floor of the unit for easy and safe entry of power and control cables. The frame should be able to withstand the stress and vibration during transportation.</p> <p>The detail description of the panel is as described below:</p> <p>(1) AVR of the alternator shall be mounted inside the control panel with vibration proof supports.</p> <p>(2) Generator control panel MCCB should trip on the following faults:</p> <ul style="list-style-type: none"> i) Earth leakage, through earth leakage relay. ii) Over load & short circuit. Tripping from inbuilt trip unit of MCCB. 	

		<p>(3) Instruments and Switches: (Mounted on front hinged door)</p> <ul style="list-style-type: none"> i) 1 No. Power & Energy monitor (Multi-function meter) showing Voltage, current, power (KW), Power factor, KWH & Maximum demand, 5 elements of power showing at a glance with communication port compatible to PCs. Make of Meter – Siemens (Sentron PAC 3200)/ SOCOMEC -HPL (Model -DIRIS A 40/A41)/ Schneider Group (Model- PM700). ii) 01 No. Hour meter to indicate engine run hours (AEL / L&T make) <p>(4) The control panel should have following indication lamps mounted on panel front door. All lamps shall be of LED type, 240v AC having long life and low energy consumption. Binay/ L&T/ Telemecanique/ Siemens Make.</p> <ul style="list-style-type: none"> a) Trip on earth fault. b) Set running. <p>(5) Main Components : (Mounted Inside the Panel)</p> <ul style="list-style-type: none"> (i) Panel should have one set of TP & N electrolytic grade, high conductivity, tinned copper bus-bars, made from electrolytic grade copper of 99.0 % purity, rated 100 amps and supported at required intervals to withstand short circuit fault levels up to 10 KA for 3 secs. Bus-bar support shall be non-hygroscopic SMC / FRP and the Bus-bar shall be insulated with heat shrinkable PVC sleeves. Incoming and outgoing power cable shall terminate on tinned copper links rated for 100amp. (ii) 01 No. 125 Amps TP & N (Neutral bus to have removable link with bolt) CFS unit, fitted with 63 Amps HRC fuse, type: CMM (GEPC make). (iii) 01 No. 100 Amps, 4 poles, MCCB, 25 KA breaking capacity, with inbuilt electronic type adjustable overload & short circuit protections. 240v AC shunt trip coil is required for external tripping. Front Drive kit with door interlocking facility to ensure that the door can be opened only when the MCCB is in the OFF position. Overload should be adjustable from 50% to 100% and short circuit setting should be also adjustable from 4 I_n to 10 I_n. Make: Legrand/ Merlin-Gerin/ABB (iv) 01 No. CBCT along with Earth leakage relay for protection against earth leakage should be provided. Relay adjustable settings: 0.1 - 0.3- 1.0-3.0-10.0 Amp & 0.06-0.1-0.3-1.0- 5.0 Sec in steps. In case of earth leakage fault the relay should trip the MCCB through shunt trip coil. The CBCT (ID 35mm) size should be such that relay should not trip during short-circuit due to saturation (Make: GE /Legrand/ Merlin Gerin). (v) 01 KWH meter integrating, electronic type suitable for balanced and unbalanced loads, C.T. operated, 3 ph, 4 wire. (Alstom/L&T make) (vi) 06 # Bar Primary Resin cast CT of 50/5 ratio , 15 VA , class-1 conforming to IS 2705 (3 nos. for ammeter and KW meter , 3 nos. for KWH meter (AEL / Kappa make) (vii) Auxiliary Relay / Contactor 240 AC with some spare contacts. Quantity should be as per the control circuit requirement. (L&T /Siemens/ Schnieder make) 	
--	--	--	--

		<p>(viii) HRC instrument fuse holders NS type phenol molded with suitable fuses & links for different circuits. Separate fuses and neutral links should be provided for control circuit indicating system lamps, instruments, enclosure illumination and tripping circuit (GEPC make).</p> <p>(ix) Terminal strips for terminating the AVR cable from Alternator.</p>	
4.0	Wiring Scheme	<p>(1) Control system will work on 240v AC. Control panel inside wiring shall be done with 2.5 sqmm, flexible copper, 1100v grade PVC insulated wires approved by ISI, TAC, FIA. All wiring will have copper lugs & terminal blocks as required. Wiring for lighting circuit MCB, power outlet and wiring for CT will be done with 2.5 sqmm, flexible copper, 1100v grade PVC insulated wires approved by ISI, TAC, FIA & have ring type lugs. Colour code for wires shall be followed. Make: Finolex/ Havells/reputed</p> <p>(2) Output from Alternator terminal box to control panel shall be connected through 1 Core x 35 Sq. mm. for all phases i.e. R-Y-B-N. Cable shall be Copper Flexible confirming to IS: 694. Make: NICCO/ CCI/ Incab/Universal/Necab/Polycab/RPG/Finolex/Havells.</p> <p>(3) Cables are to be connected using copper lugs.</p> <p>(4) AVR shall also be wired from alternator terminal box to control panel by the party using heavy duty PVC insulated and PVC sheathed, 1100 v grade armoured, stranded, ISI approved copper cable of suitable size. Cables are to be connected using copper lugs. Make: NICCO/ CCI/Incab/Universal/Necab/Polycab/RPG/Finolex/Havells.</p> <p>(5) Heavy duty Single Compression Cable Glands shall be provided at all cable entries for power and control cables. Cable Glands shall also be provided for the outgoing power cable. Make: Baliga/FCG/GMI/Dowells.</p> <p>(6) All power and control cable terminal ends will have suitable heavy duty crimping lugs. Make: Dowells.</p> <p>(7) Alternator to panel power cable, AVR cable shall be protected in their run from unit to control panel to avoid any damage.</p> <p>(8) Suitable provision shall be made for safe routing of output cable from panel to outside of the unit.</p> <p>(9) All cables and accessories like lugs, glands for the cables used etc. shall be in the scope of the supplier, including the outgoing power cable glands from the control panel. OIL shall supply the outgoing power cable only.</p>	
5.0	Enclosure illumination and power outlet	<p>Enclosure will have one no. of 125w MV Bulkhead type luminaries mounted on enclosure wall and wired with heavy duty PVC insulated and PVC sheathed armored, stranded copper cable approved by IS. Light will be switched from individual MCB, 6amp, C curve, mounted on control panel cover & have back-up HRC fuse and neutral link of 16 amp rating. One no. industrial type metallic plug socket of 10amp rating with 10 amp SP MCB as switch should also be fed from lighting circuit fuse. The socket should be mounted on the enclosure side. Power for lighting circuit and socket outlet should be taken from the main bus through HRC fuses.</p> <p>Make: Philips for luminaire & Legrand/ Merlin-Gerin for MCB/ Metallic plug socket.</p>	

6.0	Earthing	<p>(1) The earthing scheme for the unit should be as per IS-3043.</p> <p>(2) Two nos. 25x5 mm GI straps shall be suitably fixed inside the unit near the floor. Strap galvanisation thickness should be min. 85 micron and as per IS. Alternator earth terminals, control panel earth terminals, enclosure chassis shall each be connected with two nos. separate cables to both the straps with independent connections at separate points. The neutral of the alternator will be earthed by connecting two nos. of earthing cables from neutral bus inside the panel to separate earth electrodes outside. Suitable provision is required in the panel base plate for safe entry of neutral earth cable. Heavy duty PVC insulated, PVC sheathed, flexible, single core, IS approved copper cables of 25 sqmm size shall be used for each earth connection. The cables to be terminated with lugs and suitably protected against mechanical damage. Earth cable shall be protected to avoid any damage and to be run in galvanized, flexible MS conduit. Make: NICCO/CCI/Incab/Universal/Necab/Polycab/RPG/Finolex/Havells.</p> <p>(3) Both the straps shall extend upto the back side of the enclosure and each strap will have one no. of zinc coated terminal stud of 10mm dia provided at end of the straps for connection to system earth. Two nos. of earthing cables of size & type mentioned in point no.2 above and individual length of 5.0 mtr shall be provided and connected to these two straps for external earthing. The free ends of these cables shall be crimped with heavy duty, tinned copper tubular lugs. Suitable opening with hinged cover shall be provided in the rear side of the unit to facilitate the entry of outgoing power cable and earth leads.</p>	
7.0	Panel Painting	Panels should be thoroughly cleaned before applying two coats of rust preventive paints. This shall be followed by three coats of paint light grey Shade No. 631 as per IS: 5.	
8.0	Change over switch panel	<p>(1) One no change over switch panel (COSP) should be provided, which have to be incorporated into the acoustic enclosure itself with provision of easy operation from outside. The switching panel will comprise of:</p> <p>a) On load change over switch: 1 no. 415 Volts, 100 Amps, 3 phase (with neutral), 4 pole</p> <p>Make: GEPC / L & T / Crompton Greaves / Siemens</p> <p>b) Wall mounting type fuse switch unit with HRC fuse and SM type fuse holder: 2 nos. 415 Volts, 100 Amps, 3 phases (with neutral)</p> <p>Make: GEPC / L & T / Crompton Greaves / Siemens.</p> <p>c) One no 40W lamp with MCB</p> <p>(2) The COS panel should be fabricated with sheet steel, dust and vermin- proof, self-supporting, suitable for outdoor installation (with canopy), industrial type conforming to IP-54. It should be fabricated from 2mm MS CRCA sheet steel and suitable size rigid M.S. angle iron / M.S. channel frame work to have sufficient strength. Panel door should be of double leaf arrangement with heavy-duty hinges and lockable. A neoprene gasket is to be provided around the periphery of panel door to make it dust and vermin-proof. Panel should be floor mounted. An earth bar of 50 mm x 6 mm of G.I. strap is to be provided on the backside of the COS</p>	

		<p>panel for earth connection. Danger plates are to be provided on front and rear side of the panel. Detachable gland plate is to be provided for glanding of heavy duty 4X 25 sq.mm, 1100v grade, PVC insulated and PVC sheathed, armoured, stranded incoming and outgoing copper cables. Suitable size of cable gland are to be provided at cable entry point of the COS panel. Layout of the components inside the panel should be systematic and arranged in such a manner that sufficient space inside the panel is available for maintenance. The total height of the panel from ground level should not be more than 1.8 meters. Output from the Alternator control panel should be connected to one of the COS input terminal with heavy duty 4X 25 sq.mm, 1100v grade, PVC insulated and PVC sheathed, armoured, stranded copper cable approved by IS-1554. Cable to be supplied & connected by the bidder using copper lugs. Make: NICCO, CCI, Finolex, Havells. Other two terminals, one for terminating outgoing cable and other as incomer from second alternator are to be placed separately by putting partitions.</p> <p>(3) COS Panel Painting: COS Panel should be thoroughly cleaned before applying two coats of rust preventive paints. This shall be followed by three coats of paint light grey Shade No. 631 as per IS: 5, thickness - 50 Microns.</p> <p>(4) Suitable electrical connection with 4 core x 35 mm² PVC insulated armored copper cable between control panels of gensets to incomer (main) fuse switch unit and then to changeover switch of COSP shall be done. Acoustic enclosure and COS panel shall be interconnected with 50mmX6mm GI strap for earthing. There should be provision for connecting common points of earthing system to local earth electrodes.</p>	
9.0	Notes: (Alternator and Control Panel)	<p>(1) The bidder shall submit all indicative power and control wiring diagram for the offered alternator.</p> <p>(2) Offered alternator should be of proven design / model.</p> <p>(3) Bidder shall submit the following information regarding alternator along with the offer failing which offer is liable for rejection:</p> <ul style="list-style-type: none"> i) Frame size ii) Dimensional drawing iii) Technical datasheet iv) Catalogue <p>(4) Alternator and control panel are to be guaranteed for period of 12 months from the date of commissioning against any manufacturing defects.</p> <p>(5) Guaranty Certificate shall be submitted at the time of delivery of alternator and control panel.</p> <p>(6) Test certificate of alternators shall be furnished at the time of delivery of alternator.</p> <p>(7) Bidder shall submit the drawings (Dimensional, schematic, GA, component layout and wiring layout) of control panel to OIL on placement of order and shall proceed for manufacturing of the panel only after getting due approval from OIL.</p> <p>(8) Packing should be adequate to avoid transit damage.</p> <p>(9) Three sets of control circuit diagram of control panel and commissioning cum maintenance manual for alternator should be provided along with the material.</p>	

		<p>(10) Any items/ points not included in the specifications but necessary for efficient control and operation of the alternator shall be stated by the bidder.</p> <p>(11) Spare parts list along with the price should be provided along with the quotation.</p>	
10.0	Prime mover	<p>(1) The Diesel Engine shall be 4-stroke In-line with individual cylinder head for each cylinder, water cooled /air cooled, electric start, developing BHP (not less than 80 BHP gross) at 1500 RPM suitable for prime mover of alternator with output of 62.5/63 KVA at 3 phases, 0.8 power factor, 415 Volt when running at 1500 rpm under NTP conditions and rated for Prime Duty and G2 performance as per ISO: 8528-5 standard. The engine should be suitable for 75% average 24-hour load factor duty.</p> <p>(2) The diesel engine should conform to standards ISO3046/ BS5514/ IS: 13018/1990 (for turbocharged Diesel Engine) (reaffirmed 2005) and IS: 10000 series (with latest Amendments) and should be capable of providing 10% overload for one hour in every 12 hours continuous running at full load. Specific fuel consumption (SFC) shall be as per IS specification.</p> <p>Note: These technical data in Clauses (1) & (2) should be clearly mentioned in the engine/generator manufacturer's standard catalogue and website for verification by any stakeholder.</p> <p>(3) The Diesel engine shall be complete with the following accessories :</p> <p>(a) Fuel tank with air breather, drain plug with capacity for 12 hours of continuous running at full load.</p> <p>(b) Engine instrument panel consisting of starting switch with key, lube oil temperature and pressure gauges, RPM indicator and hour meter at the minimum.</p> <p>(c) Safety control to shut down the engine in the event of over-speed, low lube oil pressure and high engine water temperature.</p> <p>(d) Exhaust silencer, Industrial Type.</p> <p>(e) 12 V or 24 V starting system complete with charging alternator.</p> <p>(f) Lead Acid/ maintenance free batteries of suitable ratings with connecting cables. The batteries shall be supplied in charged condition and shall conform to relevant IS. Only, the following make of batteries shall be accepted- Exide/ Cummins / Bosch/ Lucas.</p>	

		<p>(g) Anti-Vibration mountings for complete DG set</p> <p>(h) The fuel level should be indicated with the help of fuel gauge meter.</p> <p>(i) There should be provision for filling the fuel from outside (as in case of automobiles) with locking arrangement.</p>	
11.0	Spare Parts	<p>Bidder has 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>The following spares should be supplied as MANDATORY SPARES along with the complete package (The cost of the same to be included in the main offer)</p> <p>(a) Engine Spares:</p> <p>(i) Fuel filter - 06 nos (per genset)</p> <p>(ii) Lub. 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) Coolant: 10 L for each engine (apart from the coolant for genset commissioning)</p> <p>(b) Electrical Spares:</p> <p>(i) Automatic voltage regulator unit (along with any other component used with AVR) – 02 sets</p> <p>(ii) Standard (forward) diode for rotating rectifier assembly – 06 nos</p> <p>(iii) Reverse diode for rotating rectifier assembly – 06 nos.</p> <p>(iv) NDE bearing-01 No.</p> <p>(v) Spares for control panel (Fuse, MCB, Isolator, all types of meters, indication lamps used in panels) -03 Sets (for 12 GenSets)</p> <p>Note: The above spares are to be separately packed and forwarded to GM- FIELD ENGINEERING, OIL INDIA LIMITED, DULIAJAN- 786602, ASSAM, clearly indicating the OIL's Purchase order no and the description.</p>	

12.0	Acoustic Enclosure	<p>The Acoustic Enclosure shall conform to the drawings TYPE approved by a Govt./NABL lab., for conformity to noise norms. This aspect shall also be verified by OIL's official at the time of pre-dispatch inspection. The OIL official shall tally the enclosure offered with the approved drawing.</p> <p>The Acoustic enclosure should consist of following:</p> <ul style="list-style-type: none"> (a) The enclosure should be fabricated out of CRCA sheet of minimum 1.6 mm thick. (b) The sheet metal components should be suitably pretreated and should be powder coated to have long life of enclosure. (c) The battery should be accommodated in a separate tray in the enclosure. (d) There should be provision of drain plugs for draining lube oil and diesel. (e) The doors should be gasketed with quality gaskets to avoid leakage of sound. (f) The door handle should be lockable type. (g) Sound proofing of enclosures should be done with high quality rock wool/ mineral wool/foam/fiberglass wool. (h) The rock, mineral, fiberglass wool is further covered with fiberglass cloth and perforated powder coated sheet. (i) An industrial silencer should be provided along with the enclosure to control exhaust noise. (j) Specially designed louvers should be provided to control sound at air entry to the container and exit from the container. (k) It should have Type approval certificate and also COP certificate (if applicable) from certification agencies mentioning MOEF notification No.371(E) dated 17.05.2002 or as amended and applicable at the time of supply. (l) Ambient temperature limit inside the canopy should be specified. (m) There shall be provision for emergency STOP from outside the enclosure. (n) Genset/ Engine control panel should be visible from outside the enclosure. (o) Sufficient space should be available around the Genset. Routine/periodical check on engine/alternator (filter replacement and tappet setting etc.) should be possible without dismantling acoustic enclosure. (p) It should be easily dismantled for removing the engine or alternator for major repair. (q) Acoustic Enclosure shall conform to pollution noise norms stipulated in notification GSR 371(E) dated 17.05.2002, amended upto date. 	
13.0	Pre-Dispatch Inspection	<p>The testing of the DG sets shall necessarily be carried out at factory/manufacturer premises in presence of representative of OIL. The party will arrange staff/fuel/POL for test run at his cost. For testing, following procedure will be followed:</p> <ul style="list-style-type: none"> (i) All major items/equipment i.e. engine & alternator in assembled condition, associated electrical control panels etc. shall be offered for inspection and testing at factory/ manufacturers works. (ii) All routine tests of the alternator and control panel (if required) shall be witnessed during the inspection at respective manufacturer's works. 	

		<p>(iii) The party will give a notice of minimum two weeks for carrying out such tests. OIL/or its authorized representative shall witness such inspection & testing at mutually agreed date.</p> <p>(iv) Inspection/testing charges, if any, shall be quoted separately 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.</p> <p>(v) OIL also reserves the right to inspect the fabrication job at factory and the successful tenderer has to make arrangements for the same.</p> <p>(vi) The party shall provide the testing facilities for the following tests in their works at the time of inspection:</p> <ul style="list-style-type: none"> (a) The testing of diesel generating sets shall be done with a load of 0.8 pf lag or unity power factor. (b) The facility for checking of alignment of DG set before subjecting to load test for which tolerance is 0.01 mm in case of flexible coupled DG set and not applicable for direct coupled. (c) Full load test for 4 hours at rated KW at 0.8 pf lag. (d) After 4 hours full load test, 10% overload test shall be conducted for one hour at 0.8 pf lag. DG set should be capable of running at full-load test for one hour, after the overload test. The parameters should meet the requirements at full load, conducted after the over-load test. (e) Checking for the trouble free starting and oil leakage. (f) Vibration test: Vibration below AVM's should not exceed 100 microns. <p>(vii) The testing will be declared successful only when no abnormality/failure is noticed during the testing.</p> <p>(viii) The DG set will be cleared for dispatch to site only when the testing is declared successful by OIL.</p>	
14.0	Documents to be provided at the time inspection	<p>The party should provide following documents to the visiting OIL's official at the time of inspection:</p> <ul style="list-style-type: none"> (1) DG Sets manufacturer's shall furnish invoices and OEM's test certificates for the engine/alternators used, at the time of inspection from the original manufacturer. The Invoice should have been billed directly to DG sets manufacturer. Original will be shown to the visiting inspector for verification during inspection. (2) Valid Calibration certificates of all the testing meters from any Govt. /NABL accredited Lab. (3) Complete & satisfactory Type test certificate (TTC) for the diesel engine, alternator complete with enclosure to be used by them for the DG set clearly identifying make, model and rating of the DG set tested to be submitted to the visiting OIL official at the time of pre dispatch inspection. (4) The endurance tests carried out by engine manufacturers on their own test beds and under their own supervision. The self-certified copies (i.e certified by engine manufacturers) of these tests shall be submitted by firms for inspection. (5) Apart from above , the supplier shall also furnish test reports for Rating Tests conforming compliance with relevant IS standard (with latest amendments) , covering governing speed , specific fuel consumption , Lube oil consumption & Exhaust temperature tests for the engine carried out by the engine manufacturer at their own test bed. 	

		<p>(6) Type approval certificate for "emission norms" for engine from certification agency as per notification no.GSR 371(E) dated 17.05.2002 amended up to date.</p> <p>(7) Type approval certificate of DG set for "noise norms" with turbo engine model combination from certification agency as per notification no.GSR 371(E) dated 17.05.2002 amended upto date.</p> <p>(8) Routine Test certificate of engine, alternator and control panel under supply.</p> <p>(9) DG Sets manufacturers may also take up steps to request OEM's to take necessary action so that the details of contracting invoices/bills are available on the websites of OEM's Of Engine/alternator for facilitating easy verification by stake holders.</p> <p>(10) DG Sets should be self-contained units supplied with the acoustic enclosure. Therefore supplier shall have to furnish the foundation details along with the DG Set to facilitate the process of installation & erection of DG set.</p> <p>(11) While dispatching the DG Sets to the consignee, the supplier shall issue letters to respective Engine /alternator manufacturer whose engine /alternator have been used in their DG Set supplied, informing them about the consignee's details including Name, Location so as to take care of the maintenance requirement in future at consignee's end.</p> <p>(12) Simultaneously, Consignees will also be informed about the above details of service centre i.e. Name, mailing address, e-mail address, telephone Nos. and name of the contact person etc. of the engine/alternator manufacturer who may be contacted for obtaining the service support & due maintenance. This requirement is in addition to the contractual obligation of the DG Set suppliers.</p> <p>(13) The party shall confirm that DG set shall meet the requirements of Environmental (Protection) rules 1986 as laid down by Ministry of Environment and Forest read with GSR 371(E) dated 17.05.2002, GSR 520(E) dated 01.07.2003, GSR 448(E) dated 12.07.2004, GSR 771(E) dated 11.12.2013 & GSR 232 (E) dated 31.03.2014 in respect of emission norms for engine & noise norms for DG Sets. The latest amendments to above GSRs shall be applicable as and when amended by Ministry of Environment and Forest.</p>	
--	--	--	--

		<p>(14) DG set shall also meet all the other statutory requirements as notified by the Government from time to time. Tenderers shall give complete details as per the checklist in this regard for each item quoted.</p> <p>Instructions to the Firms:</p> <ul style="list-style-type: none"> a) The Test Certificates shall be from any Govt/NABL accredited lab. b) A copy of valid formal agreement between diesel engine manufacturer and DG set manufacturer, ensuring steady supply of engines, should be submitted to the visiting OIL official at the time of inspection. c) Firms shall submit calculation sheet, showing engine BHP required for declared rating of DG Sets. d) COP and TAC with make and model of engine and DG sets shall also be submitted at the time of inspection. e) Firms shall declare the details of combination of engine and alternator along with make and model of the DG Set rating. f) The scope for installation and commissioning of DG sets is mentioned elsewhere in this tender. g) DG set and diesel engine shall meet the specified norms (upto date) of Central Pollution Control Board. They shall submit certificate in this regard. h) Necessary gauges/meter shall be installed to indicate the quantity of diesel input and the number of hours of DG set operation. i) Firms shall indicate specific fuel consumption for the DG set. j) All metal surfaces shall be thoroughly cleaned and degreased. The under surface shall be prepared by applying a coat of phosphate paint and a coat of yellow zinc chromate primer. After preparation of under surface, the panel shall be spray painted with two coats of epoxy based final paint. Panel finish shall be free from imperfections like pin holes orange peels, run off paint etc. k) The components of the complete generating sets shall be of such design so as to satisfactorily function under all conditions of operation. l) The entire work of manufacture/fabrication, assembly and installation shall conform to sound engineering practice. The entire installation shall be such as to cause minimum transmission of noise and vibration to the building structure. 	
15.0	Skid	A base plate of robust in construction (oilfield type) with lifting-hook for lifting the Complete DG set including the Acoustic Enclosure. It should be rugged in construction and designed for mounting engine coupled with alternator, with cross members mounted on requisite number of suitably designed Anti Vibration Mountings (AVM's).	
16.0	Painting, Quality of	All equipment and materials to be used in work shall be manufactured in factories of good repute having excellent track record of quality manufacturing, performance and proper after sales service.	

	materials and workmanship		
17.0	Installation and Commissioning of the Units	<p>a) Installation and Commissioning of the generating sets, control panels mounted on skid shall be carried out by the party at site in Duliajan, Assam (India).</p> <p>b) Services of qualified and competent personnel from equipment manufacturer are essential during installation and commissioning of the generating sets.</p> <p>c) Persons engaged for installation, testing and commissioning of alternator and control panel should have valid electrical license issued by State Licensing Board. A person who is authorized for supervision of all electrical works should have valid supervisory license.</p> <p>d) External power cable from control panel of the unit to the load center shall be provided by OIL and the party will connect the same to the genset control panel. Party shall also connect the alternator earth points and enclosure earth points of the unit to OIL's earth system with cable/GI strip etc.</p> <p>e) Materials such as line pipes, fittings necessary for fabricating fuel/ water lines (if required), supports for engine exhaust shall be provided by OIL. However bidder has to arrange welding and cutting facilities that may be required during installation and commissioning the generating sets.</p> <p>f) OIL will provide necessary statutory permits for welding and cutting jobs in classified areas as and when required.</p> <p>g) Installation / commissioning charges work should be quoted separately which shall be considered for evaluation of the offers. These charges should be included amongst others: to and from fares, boarding/ lodging and other expenses of the commissioning engineers during their stay at Duliajan, Assam (India). Bidders should also confirm about installation/ commissioning in the Technical Bid giving the scope of work.</p> <p>h) The genset will be treated as successfully commissioned from electrical side after successful load test of the unit at OIL's field site with available load for 72 hrs and submission of all documents and all spares as per Purchase Order.</p>	
18.0	Documents to be attached with the final shipment	The supplier shall submit detailed records and certificates of the foregoing tests to the purchaser. The certificates/records shall be supplied in quadruplicate and those for electrical equipment shall be endorsed suitable for use in the climatic conditions specified.	

		<p>The following documents [at least 04 bound sets (if not specified otherwise hereunder)] are to be separately packed and forwarded to GM- FIELD ENGINEERING, OIL INDIA LIMITED, DULIAJAN- 786602, ASSAM, clearly indicating the OIL's Purchase order no and the description.</p> <ol style="list-style-type: none"> (1) Complete 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. (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) Wiring Diagram and Schematics- showing function of all electrical components. (8) Set of drawings showing installation details of the generating set, oilfield type skid, wiring diagram for the control panel (inclusive of float charger) and wiring drawing between the alternator and control panel should be provided with each generating set. All control panel diagram and schematic diagram are to be sent to us before supply of order materials. (9) Warranty documents, test certificates, requisite certificates as specified and all other relevant documents specified in OIL's purchase order. (10) Four (04) sets of following documents in bound form: <ol style="list-style-type: none"> (i) GA drawing (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 materials of all components. (vi) Technical literature of alternator. (vii) Composite O&M manual of the generator covering all sub-systems. (viii) Catalogues of various components. (ix) Part Manuals of Engine and Alternator. (x) All test certificates for tests done at manufacturer's works for alternator, control panel and complete unit. (xi) Tests to be done during commissioning. (xii) Guarantee certificate for alternator and control panel. Guarantee shall be for 12 months after commissioning of genset or 18 months after supply, whichever is earlier. (xiii) List of recommended spares for two years including part nos and descriptions. 	
--	--	--	--

19.0	Service and Warrantee/ guarantee	<p>(a) The manufacturer (engine) shall have authorized dealers who can immediately provide factory trained servicemen, the required stock of replacement parts, technical assistance, and warranty administration.</p> <p>(b) It shall ensure adequate and prompt after sales service free of cost during guarantee/warrantee period, and against payment after the guarantee/warrantee period is over, in the form of maintenance, spares and personnel as and when required during normal life span of the equipment and shall minimize the breakdown period.</p> <p>(c) The guarantee / warranty period for the Gen set and ancillary equipment should be a minimum of 18 months from the date of dispatch/ shipment or 12 months from the date of commissioning of the equipment whichever is earlier.</p> <p>(d) All equipment shall be warrantee/ guaranteed, against unsatisfactory performance and/or break down due to defective design, workmanship or material. The equipment or components, or any part thereof, so found defective during warrantee/guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of OIL. In case it is felt by OIL that undue delay is being caused by the supplier in attending the defect/fault removed, the same will be fixed by OIL and the cost of it will be booked to the supplier. The decision of OIL in this regard shall be final.</p>	
20.0	BEC/BRC Clause for 62.5/ 63 KVA DG Set	<p><u>A. BID REJECTION CRITERIA (TECHNICAL)</u></p> <p>(1) The diesel engine shall conform to IS10000/ISO 3046/BS 5514 standards (amended up to date) in design and shall meet the latest norms of the Environment (protection) Act 1986 (CPCB II) for emission and noise level. The bidder shall furnish Type Approval and Conformity of Product certificates from the authorized agencies for certification.</p> <p>(2) The rated output of the diesel engine shall be not less than 80 BHP (gross) at 1500 RPM and STP condition and it should be suitable for driving a generator rated for 62.5/63 KVA output prime duty and G2 performance as per ISO 8528-5.</p> <p>Note: Bidder shall provide standard manufacturer's catalogue as documentary evidences in support of the engine ratings/outputs specified in clause (2) above.</p> <p>(3) The offered engine (Make & Model) must be proven in generator set application and the bidder shall furnish documentary evidence of PTR (proven Track record) with the technical bid.</p> <p>(4) Bidder shall be an Original Equipment Manufacturer or its authorized dealer of any of the following 3 (three) items offered:</p> <ul style="list-style-type: none"> a)Generating set b) Engine c)Alternator 	

		<p>Note:</p> <ul style="list-style-type: none"> i) Valid OEM or Authorized Dealership Certificate, as the case may be, shall be submitted in the technical bid by the bidder. ii) If the engine or the alternator or both the engine and alternator are bought-out item for a bidder, it must be purchased from the respective OEM or their authorized dealer only. <p>An undertaking shall be submitted by the bidder along with the technical bid that supporting documentary evidence of such purchase(s) shall be furnished during the pre-dispatch inspection in the event of order.</p> <p>(5) The bidder must have experience of successfully executing at least one order for Rs.85,37,496/- for generating sets of any capacity between 30KVA to 250KVA during the last 5(five) years before the bid closing date (to be reckoned from the original bid closing date) of this tender to organizations namely PSU (State/Central Government of India) or State/Central Govt. Department of India or any other public Limited company.</p> <p>The bidder must furnish customer's purchase order copy with invoices in support of its experience.</p> <p>Note: A job executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC.</p> <p>Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.</p> <p>B) <u>BID REJECTION CRITERIA (FINANCIAL)</u> :</p> <p>1.0 Annual Financial Turnover of the bidder during any of preceding three financial / accounting years from the original bid closing date should be at least Rs.85,37,496/-</p> <p>1.1 Net worth of bidder must be positive for preceding financial/ accounting year.</p> <p>2.0 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</p>	
--	--	---	--

		<p>affidavit/undertaking certifying 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: (a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-</p> <p>i) A certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in ANNEXURE-B.</p> <p style="text-align: center;">OR</p> <p>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> <p>Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.</p>	
21.0	Gen-set data to be furnished	Description of required data	
	1.00	Engine for Generating Set (Firms shall also specify Model No. of D.G.Set)	
	1.01	Maker's name	
	1.02	No. and arrangement of cylinders	
	1.03a	Cylinder bore and stroke(inches)	
	1.03b	Cylinder bore and stroke(mm)	
	1.04	Method of starting -12/24V DC	

1.05	Rated RPM- 1500	
1.06	Rated output at NTP as per IS: 13018/1990(reaffirmed 2005) and IS: 10,000 series.	
1.07	Compression ratio	
1.08	compression pressure PSI	
1.09	Max cylinder pressure PSI	
1.10	Time required for starting from cold (in seconds)	
1.11	Type of governor	
1.12a	Guaranteed limits governing Permanent variation-Full load thrown on	
1.12b	Guaranteed limits governing Permanent variation-Full load thrown off	
1.12c	Guaranteed limits governing Temporary variation-Full load thrown on	
1.12d	Guaranteed limits governing Temporary variation-Full load thrown off	
1.13	Recommended specified fuel-HSD Conforming to IS:1460/2005 with amdt.No- 1.	
1.14	Specification of Lube oil	
1.15	Over load for one hr at standard operating condition-10% for 1 hr during 12 hrs of continuous operation	
1.16a	Specific fuel oil consumption under NTP in <u>gms/bkw-hr</u> at full rated output	
1.16b	Specific fuel oil consumption under NTP in gms/bkw-hr at 3/4 rated output	
1.16c	Specific fuel oil consumption under NTP in gms/bkw-hr at half rated output	
1.17	Guaranteed lube oil consumption at full rated output in gms/bkw-hr	
1.18	Mechanical efficiency	
1.19	Thermal efficiency	

1.20	Details of standard accessories offered with engine	
1.21a	Safety protection –High Water Temperature trip	
1.21b	Safety protection-Low lube oil pressure trip	
1.21c	Safety protection-Over speed trip	
1.22	Direction of rotation looking from engine towards the driven machine- Clockwise	
1.23	No. of strokes-4 strokes	
1.24	Method of aspiration-Turbocharged/TCA	
1.25	Method of cooling	
1.26	Fuel tank capacity	
1.27	Engine BHP to suit for prime mover DG rating with 10% overload capacity	
2.00	AC Generator(Alternator)	
2.01	Maker's name	
2.02	Rated continuous max. KVA to IS:13364 (Part-2)/1992 (Reaffirmed 2008) at NTP	
2.03	Power factor - 0.8 PF lag	
2.04	Rated Output in KW at specified power factor(pf)	
2.05	Governing specification	
2.06	Type of enclosure	
2.07	Speed in RPM	
2.08	Frequency in Hz	
2.09	Rated voltage	

2.10	No. of phases	
2.11	Current carrying capacity of AC winding in amps	
2.12	10% over load capacity for hrs	
2.13	50% over current capacity for seconds	
2.14	Temp. rise of winding	
2.15a	Class of insulation for main stator	
2.15b	Class of insulation for main Rotor	
2.16a	Efficiency at rated pf at 100% of full load	
2.16b	Efficiency at rated pf at 75% of full load	
2.16c	Efficiency at rated pf at 50% of full load	
2.17	Voltage regulation from no load to full load and at specified power factor with 4% speed regulation of engine of VG-3 grade	
2.18	Damper windings fitted on poles	
2.19	Radial clearance between stator and rotor in mm	
2.20	Critical speed of rotor	
2.21	Direction of rotation	
2.22	Method of lubrication	
2.23	Type and make of excitation unit	
2.24a	Excitation at rated pf -Field voltage(Volts)	
2.24b	Excitation at rated pf -Field current(amps)	
3.00	Electric Control Panel	

	3.01	Maker's name	
	3.02	Rated KVA	
	3.03	Voltage	
	3.04	Degree of protection	
	3.05	Frequency	
	3.06	No. of phases	
	3.07	Current carrying capacity	
	3.08	10% Over load capacity in hrs	
	3.09	MCCB/ACB/Contactor's make	
	3.10	MCCB/ACB in amps	
	3.11	Ammeters, Voltmeters, Hz Meter, PF Meter, KWH Meter	
	3.12	Type of meters , Digital/Analog	
	3.13	Dimensions	
	4.00	Acoustic Enclosure	
	4.01	Thickness of CRCA sheet (1.6 mm ,Min.)	
	4.02	CRCA sheet suitably pre- treated or not	
	4.03	Enclosure powder coated or not	
	4.04	Fuel level indicator	
	4.05	Thickness of Rockwool/Mineralwool/Fibre glass wool / foam	
	4.06	Thickness of perforated sheet	

	4.07	Thickness of foam	
	4.08	Density of rock, fibre glass /Mineral wool	
	4.09	Noise level -75 db(a) at 1 meter	
	4.10	Certificates no. for noise norms and emission norms compliance	
	4.11	Acoustic enclosure is integrated or cap on type-Integrated	
	4.12	Emergency stop button provided	
22.00	CHECK LIST		
	01	Whether quoted as OEM of Engine and whether documentary evidence submitted?	YES/NO
	02	Whether quoted as OEM of Alternator & whether documentary evidence submitted?	YES/NO
	03	Whether quoted as Authorized Dealer of OEM (Engine/Alternator) and whether documentary evidences submitted?	YES/NO
	04	Whether quoted as Assembler , OEM of Gen Set manufacturer or authorized dealer of OEM (Gen Set Manufacturer)	YES/NO
	05	Whether valid Type Approval / Conformity of Production Certificate from Certification Agencies as per latest CPCB notification for Engine Emission and DG Set Noise Limit submitted?	YES/NO
	06	Whether Copy of Purchase Order and Completion/ Commissioning / Performance Certificate in support of experience have been submitted? YES/NO	YES/NO
	07	Whether separately highlighted any deviation from the technical specification?	YES/NO
	08	Whether detail specification of Alternator with manufacturer's technical literature/catalogue enclosed?	YES/NO
	09	Whether test certificate of Alternator and Control Panel will be submitted?	YES/NO

	10	Whether all the documents, has been/ shall be submitted, as stipulated in the tender?	YES/NO
	11	Whether spare parts for next 10 years shall be available?	YES/NO
	12	Whether power and Wiring diagram of Alternator Control Panel submitted?	YES/NO
	13	Whether confirmed that control panel drawing shall be approved by OIL before manufacturing in the event of placement of order?	YES/NO
	14	Whether offered engine is as per NIT ?	YES/NO
	15	Whether quoted for supply, installation, commissioning & handing over of genset?	YES/NO
	16	Whether each and every clause is responded or not.	YES/NO
		NOTE: Bidders should note that if clause wise response is not made, then its offer may not be evaluated at all and the offer will be liable for rejection	

SPECIAL NOTES

- a) Bidders without having E-tender Login ID and Password should complete their online registration at least seven (7) days prior to the scheduled bid closing date and time of the tender. For online registration, Bidder may visit the OIL's E-tender site <https://etender.srm.oilindia.in/irj/portal>
- b) Necessary Login ID & Password will be issued by OIL only after submitting the complete online registration by the Bidder. In the event of late registration/incomplete registration by Bidder, OIL INDIA LIMITED shall not be responsible for late allotment of User ID & Password and request for bid closing date extension on that plea shall not be entertained by Company.
- c) MSEs Units (manufacturers/Service Providers only and not their dealers/distributors) who are already registered with District Industry Centers or Khadi & Village Industries Commission or Khadi & Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts & Handloom or any other body specified by Ministry of MSME are exempted from payment of Bid Security (EMD) irrespective of monetary limit mentioned in their registration, provided they are registered for the item they intend to quote/participate.
- d) For availing benefits under Public Procurement Policy (Purchase preference & EMD exemption), the interested MSE Bidders must ensure that they are the manufacturer/ service provider of tendered item(s) and registered with the appropriate authority for the said item(s). Bids without EMD shall be rejected, if the technical offer does not include a valid copy of relevant MSE Certificate issued by appropriate authority specifying the item as per tender. Therefore, it is in the interest of such MSE Vendors to furnish a copy of complete certificate to the concerned tender handling officer of OIL at least seven (7) days prior to the scheduled Bid Closing Date of the tender; seeking clarification/confirmation as to whether their registered item is eligible for EMD exemption or not. Late communication in this regard and request for bid closing date extension on that plea shall not be entertained by Company.