

# **OIL INDIA LIMITED**

*(A Government of India Enterprise)*

**P.O. Udayan Vihar -781171**

**Guwahati, Assam (India)**

OIL INDIA LIMITED invites Bids for the following item through its e-Procurement portal

<https://etender.srm.oilindia.in/irj/portal> :

<b>e-Tender no.</b>	<b>Material Description</b>	<b>Tender Type</b>	<b>Tender Fee</b>	<b>Bid Closing Date</b>
<b>SGI2825P17</b>	<b>25 KVA Diesel Generating Sets, Control Panel, Distribution panel and related accessories</b>	<b>LCB(Local Competitive Bidding)</b>	<b>INR 1000.00</b>	<b>08.12.2016</b>

Tender fee (Non-refundable): **as mentioned above**; Bid Closing/Opening Time: (11:00 Hrs) IST/ (14:00Hrs) IST; Period of sale of documents till one week prior to bid closing date. The complete bid documents and details for purchasing bid documents, participation in E-tenders are available on OIL's e-procurement portal <https://etender.srm.oilindia.in/irj/portal> as well as OIL's website [www.oil-india.com](http://www.oil-india.com).

NOTE: All addenda, Corrigenda, time extension etc, to the tenders will be hosted on above website and e-portal only and 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)  
PO : Udayan Vihar,  
Guwahati – 781171  
Assam (India)

TELEPHONE NO. (91-361) 2594286

FAX NO: (91-361) 2643686

Email: [panchali@oilindia.in](mailto:panchali@oilindia.in) ; [erp\\_mm@oilindia.in](mailto:erp_mm@oilindia.in)

**FORWARDING LETTER**

**Tender No.** : SGI2825P17 dated 26.10.2016

**Tender Fee** : Rs 1,000.00

**Bid Security** : Applicable

**Bidding Type** : SINGLE STAGE TWO BID SYSTEM

**Tender Type** : Open Tender

**Bid Closing / Opening on** : As mentioned in the e-portal

**Performance Security** : Applicable

**Integrity Pact** : Applicable

OIL invites Bids for procurement of **25KVA Diesel Generator Sets alongwith Engine local panels, Generator Control Panels, Distribution Panels and related accessories** 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/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders. 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**.

**GENERAL NOTES**

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 Deptt at following: Tel Nos = 0374-2807171 , 0374-2807192. Email id = [erp\\_mm@oilindia.in](mailto:erp_mm@oilindia.in).**

b) **OIL PHQ's office timings are as below:**

	Time (in IST)
<b>Monday – Friday</b>	<b>07.00 AM to 11.30 AM; 01.00 PM to 03.30 PM</b>
<b>Saturday</b>	<b>07.00 AM to 11.00 AM</b>
<b>Sunday and Holidays</b>	<b>Closed</b>

Vendors should contact OIL officials at above timings only.

c) The tender will be governed by “General Terms & Conditions” for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.

- d) This Bidding document consists of :
- (i) Annexure AAA : Technical Specification
  - (ii) Annexure BBB : Bid Rejection Criteria / Bid Evaluation Criteria
  - (iii) Annexure CCC : Technical checklist
  - (iv) Annexure DDD : Data list
  - (v) Annexure EEE : Commercial Checklist
  - (vi) Annexure FFF : Annual Turnover & Net Worth Detail
  - (vii) Annexure GGG : Bidder's Response Sheet
  - (viii) Annexure HHH : Integrity Pact
  - (ix) Annexure JJJ : Bank Details

**Vendor User Manual and LCB Doc Booklet (revised)** has been uploaded separately in the Technical RFx -> External Area -> Tender Documents

e) Bidder are advised to fill up the Technical Checklist ([Annexure CCC](#)), Data List ([Annexure DDD](#)), Integrity Pact ([Annexure HHH](#)), Commercial check list ([Annexure EEE](#)), Annual Turnover and Net worth Detail ([Annexure FFF](#)), Response sheet ([Annexure GGG](#)) and Bank Details ([Annexure JJJ](#)) given in the bidding document uploaded in Technical RFx -> External Area -> Tender Documents. The above filled up documents to be uploaded in the Technical RFX Response.

f) The “Techno-commercial Unpriced Bid” shall contain all technical and commercial details **except the prices which shall be kept blank**. Details of prices as per Bid format / Commercial bid to be uploaded as attachment in the Attachment Tab **“Notes and Attachments”**.

**A screen shot in this regard is given below.**

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

**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:**

**Edit RFX Response:**

Submit | Read Only | Print Preview | Check | Technical RFX Response | Close | Save

RFX Response Number 60006452 RFX Number TEST2 Status Withdrawn Submission Deadline 13.04.2013 11:00:00 INDIA  
RFX Owner WIPRO\_TEST1 Total Value 0.00 INR RFX Response Version Number 2 RFX Version Number 5

RFX Information | Items | **Notes and Attachments** | Conditions

Area for uploading Techno-Commercial Unpriced Bid\*

▼ Notes

Add ▲ Clear

Assigned To	Category	Text Preview

▼ Attachments

Sign Attachment Add Attachment Edit Description Versioning ▲ Delete Create Qualification

Assigned To	Category	Description	File Name	Version	Processor	Checked
The table does not contain any data						

Area for uploading Priced Bid\*\*

**Note :**

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The “Techno-Commercial Unpriced Bid” shall contain all techno-commercial details **except the prices**.

The “Price bid” must contain the price schedule and the bidder’s commercial terms and conditions. For uploading Price Bid, first click on Sign Attachment, a browser window will open, select the file from the PC and click on Sign to sign the file. On Signing a new file with extension .SSIG will be created. Close that window. Next click on Add Attachment, a browser window will open, select the .SSIG signed file from the PC and name the file under Description, Assigned to General Data and click on OK to save the File.

- 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.
- h) 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).

**2.0 Vendors having OIL’s User ID & password may 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).**

**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).**

**Alternatively, application showing full address/email address with Tender Fee (Non-refundable) of Rs. 1,000.00 in the form of crossed "Payee Account only "Bank Draft/Bankers’ Cheque drawn by Bank and valid for 90 days from the date of issue of the same or in the form of Indian Postal Orders payable to the OIL is to be sent to Chief Manager Materials, Oil India Limited, Pipeline Headquarters, P.O. Udayan Vihar, Guwahati-781 171, Assam. Application shall be accepted only upto one week prior to the Bid closing date (or as amended in e-portal). The envelope containing the application for participation should clearly indicate “REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO ...” for easy identification and timely issue of user ID and password. On receipt of requisite tender fee, USER\_ID and initial PASSWORD will be communicated to the bidder (through e-mail) and will be allowed to participate in the tender through OIL’s e- Procurement portal. No physical tender documents will be provided. Details of NIT can be viewed using “Guest Login” provided in the e-Procurement**

portal. The link to e-Procurement portal has been also provided through OIL's web site [www.oil-india.com](http://www.oil-india.com).

**NOTE:**

**In case of MSE/PSUs/ Govt. Bodies / eligible institutions etc., they shall apply to Chief Manager Materials, Oil India Limited, Pipeline Headquarters, P.O. Udayan Vihar, Guwahati-781 171, Assam for waiver of Tender Fee upto one week prior to the Bid closing date (or as amended in e-portal).**

3.0 The tender is invited under SINGLE STAGE- TWO BID SYSTEM. The bidders are required to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" separately as mentioned above in designated place through electronic format in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.

3.1 Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the Technical RFx Response-> User - > Technical Bid only.

4.0 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 **Chief Manager Materials, Oil India Limited, Pipeline Headquarters, P.O. Udayan Vihar, Guwahati-781 171, Assam** 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 Duplicate.

**5.0 Benefits to Micro & Small Enterprises (MSEs) as per OIL's Public Procurement Policy for Micro and Small Enterprises (MSEs) shall be given. Bidders are requested to go through ANNEXURE – I of MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders for more details. MSE bidders are exempted from submission of Tender Fees and Bid Security/Earnest Money provided they are registered for the items they intend to quote.**

6.0 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.

7.0 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.

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

9.0 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/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders elsewhere, those in the BEC / BRC shall prevail.**

- 10.0 To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.
- 11.0 Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.
- 12.0 If Bank Guarantee is submitted towards 'Bid Security', then bidders have to ensure that the Bank Guarantee issuing bank indicate the name and detailed address (including e-mail) of their higher office from where confirmation towards genuineness of the Bank Guarantee can be obtained.

**NOTE:**

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

**Yours Faithfully**

**Sd-**

**(P. THAKURIA)**  
**DEPUTY MANAGER MATERIALS (PL)**  
**FOR : DEPUTY GENERAL MANAGER-(C&P) PL**  
**FOR: GENERAL MANAGER (PLS)**

**TECHNICAL SPECIFICATIONS WITH QUANTITY****Tender No & Date: SGI2825P17 dated 26.10.2016**

ITEM SRL. NO.	DETAILED MATERIAL DESCRIPTION	QTY (UOM)	Please confirm if clause by clause Complied/ Not Complied, reasons, if any.
10	<p><b><u>GENERATOR SET FOR REPEATER STATION LOCATED IN ASSAM</u></b></p> <p><b><u>ITEM DESCRIPTION:</u></b> CPCB approved 25 KVA Diesel Generator (DG) Set with acoustic enclosure.</p> <p><b><u>SCOPE OF WORK:</u></b></p> <ol style="list-style-type: none"> <li>1) Manufacture, Assembly, pre-dispatch Inspection &amp; Testing &amp; Supply of DG sets with acoustic enclosure as per technical specifications mentioned below.</li> <li>2) Supply of Air Intake &amp; Exhaust Ducting, Exhaust Silencer Piping</li> <li>3) Supply of all accessories for Fuel supply &amp; return from existing piping from Diesel tank</li> <li>4) Supply of all electrical cables &amp; earthing connectors from the DG set.</li> <li>5) Supply of Commissioning spares for each DG set</li> <li>6) Submission of Documents, Manuals &amp; other records</li> <li>7) Safe unloading and Delivery of one set at each Repeater Station (as per attached Station list)</li> </ol> <p><b><u>General Conformity with Statutory Acts, Rules, Standard &amp; Codes:</u></b></p> <ol style="list-style-type: none"> <li>1) All components shall conform to relevant Indian Standard Specifications, wherever existing, amended to date. Otherwise, International standards such as ISO, BS, IEC, IP etc. shall be complied, as applicable.</li> <li>2) OISD standard shall be followed for guidelines on safety, wherever applicable.</li> <li>3) All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act 2003 and Indian Electricity Rules 1956 as amended up to date.</li> <li>4) Central Pollution Control Board (CPCB), India rules &amp; norms for Noise Limits, Emission levels &amp; other parameters, as applicable.</li> </ol> <p><b>a) <u>TECHNICAL SPECIFICATION</u> - RECIPROCATING INTERNAL COMBUSTION ENGINE:</b></p> <p>Diesel Engine, Air cooled, 3 cylinder, vertical inline, 4 Stroke, Compression Ignition, capable of developing net minimum 32 BHP at 1500 RPM. Performance rating as per IS 10000:1980 as amended to date. The engine shall be of standard design of the original manufacturer and suitable for operation in following site condition –</p>	8 Nos.	

Maximum/ Minimum Temperature: 48/ 05 DEG C;  
Maximum Humidity at 21 DEG C : 100 %, at 35 DEG C :  
95 %, at 41 DEG C : 70 %

The engine shall conform to ISO : 3046 specifications and shall be rated for continuous power with an over load power rating of 110% of the continuous power corresponding to engine application for a period of 1 hr within a period of 12 hrs operation. Specific fuel consumption for the engine shall comply Specific fuel consumption requirement as per IS:10002:1981 as amended to date and Maximum fuel consumption as follows:

Specific Fuel Consumption(SFC) for direct injection engine is 252 g/Kwh and for indirect injection engine 277 g/Kwh.

Each engine to be completed with following accessories:-

- 1) Self Starter: 12 Volt Electric Starting system with starter motor and other accessories including battery and battery leads. Both the positive and negative terminals of the 12 volts self starter for starting the engine should be insulated from its body.
- 2) Lube Oil Systems: A special lube oil system to sustain preferably longer continuous unmanned operations with wider sump design or with additional Lube Oil tank. The lubricating system should comprise of lubricating oil pump, lubricating oil filter with a replaceable paper element, lubricating oil cooler, lubricating oil pan and crankcase breather. The lubricating oil pump shall be a positive displacement type that is integral with the engine.
- 3) Heavy duty Lubricating Oil Filter with provision for water separation
- 4) Lube Oil Pressure Switch.
- 5) Lube Oil pressure Gauge or Digital Display in Engine Integrated control panel
- 6) Lube Oil Temperature switch
- 7) Lube Oil Temperature Gauge or Digital Display in Engine Integrated control panel
- 8) Exhaust Temperature Gauge.
- 9) Engine Tachometer (or may be included in the Engine Integrated control panel).
- 10) 12 Volts stop solenoid energized to run with auto disconnection of starting coil. Operation voltage of cut-off solenoid shall be 12 volts DC.
- 11) Heavy duty Dry type Air cleaner with a vacuum indicator with dry element requiring replacement no more



	<p>frequently than 500 hours.</p> <p>12) Engine should be supplied without its diesel tank, as in OIL Repeater Station there is a Separate Diesel tank of capacity 12 KL to feed the engine (along with return piping for Leak-off fuel).</p> <p>13) Protection devices and Alarm indications to be provided in Engine Integrated control panel:</p> <ol style="list-style-type: none"> <li>Low Lube Oil Pressure &amp; High Lube Oil Temperature shut down: One no. Low lube oil pressure (LLOP) switch and one no Lube oil temperature (LOT) switch to be incorporated with the engine for protection of low lube oil pressure and high lube oil temperature respectively.</li> <li>High Cylinder Head Temperature shut down: One no. High Cylinder Temperature (HCT) switch to be provided with the engine for protection of engine cylinder head from excessive temperature.</li> <li>Over Speed Shut-down.</li> <li>V-Belt Failure Shut-down.</li> </ol> <p>14) <u>Fuel system</u>: It shall be fed through engine driven fuel pump. Replaceable element Fuel Filter (preferably twin fuel filter arrangement) shall be suitably located to permit easy servicing. Fuel inlet line to the engine shall be having stainless steel flexible connection to take care of vibration/shock, if any, in the system. Any piping modification, new valve &amp; hose required shall be in the scope of the supplier. All such materials shall be of good quality and suitable for use in Oil &amp; Gas Industry.</p> <p>15) <u>Governor</u>: The engine speed governing system shall be of inbuilt type with the engine with Governor (Preferably WOODWARD make) and related linkages. The engine governor shall be Mechanical / Mechanical-Hydraulic / Electronic Speed Control with EG Electro-Hydraulic actuator or Barber Coleman Equal. Speed drop shall be extremely adjustable from 0 (isochronous) to 10% from no load to full rated load. Steady state frequency regulation shall be + / - 0.5 percent. The engine governing should be in accordance with Class G2 Governing specified in ISO 8528-1 : 2005 / Governing Class A2 as per IS:10000-7 (latest version).</p> <p>16) Absorption type exhaust silencer with exhaust pipe and stainless steel bellow.</p> <p>17) <u>Hot Air Outlet Ducting</u>: A proper customized arrangement of duct is to be made for discharging accumulated hot air within the canopy to open atmosphere outside the engine room. Ducting shall be made from MS sheet of minimum 1.5 mm thickness with good workmanship &amp; finishing.</p> <p>18) <u>Cold Air Inlet Ducting</u>: A proper customized arrangement of duct for fresh air suction is to be made using the existing air route of engines at the Repeater Station. Ducting shall be made from MS sheet of minimum 1.5 mm thickness with good workmanship &amp; finishing.</p> <p>19) <u>Exhaust System</u>: Dry exhaust manifold &amp; heavy duty</p>		
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	<p>exhaust pipe to take hot engine exhaust outside the engine room. Suitable residential grade silencer arrangement to reduce noise level is to be incorporated. Exhaust Piping should be installed with appropriate insulation and shielding and to be supported and braced to prevent weight or thermal growth being transferred to the engine and flexible expansion fittings provided to accommodate thermal growth. Exhaust stack height above building height shall conform to required norms (Repeater building height at Stack Side=3.75Mtr).</p> <p>20) Fan and Belt guarding: The fan, fan drive, and fan belts shall be covered with guarding for personnel protection. Non-sparking guards over belt drives and couplings has become mandatory as per recommendation of OISD (Oil Industry Safety Director) (OISD-STD-127).</p> <p>21) Dynamically balanced flywheel with guard.</p> <p>22) Necessary flexible coupling and non-sparking guard for alternator and engine.</p> <p>23) The bidder shall submit the technical data sheet &amp; catalogue of the engine along with relevant performance rating Curves and following specific data:</p> <ul style="list-style-type: none"> <li>i. Gross HP developed at rated RPM</li> <li>ii. Net HP developed at rated RPM</li> <li>iii. Maximum fuel consumption in g/Kwh - at 100 % , 75 % &amp; at 50 % Load.</li> </ul> <p><b>b) <u>TECHNICAL SPECIFICATION - ALTERNATOR:</u></b></p> <p>1) Capacity : 25 KVA brushless</p> <p>2) Voltage : 400/415 V, 50Hz</p> <p>3) Phase: 3(Three) Phase.</p> <p>4) Power Factor: 0.8</p> <p>5) RPM : 1500</p> <p>6) Class of Insulation : Class F/H</p> <p>7) Duty: SI Conforming to IS4722-1968 or IS 13364/4722</p> <p>8) Amb. Temperature: 48 Degree Centigrade</p> <p>9) Phase Sequence : IS 13364 /4722 (UVW-CW)</p> <p>10) <u>REGULATION:</u> The Alternator should have voltage and frequency regulation within <math>\pm 2.5\%</math> from No load to Full load with a maximum recovery time not more than 3 (three) seconds. The Alternator should build up full voltage instantaneously as soon as the engine attains full RPM (i.e. 1500 RPM).</p> <p>11) <u>TERMINAL BOX:</u> The terminal box of the Alternator should be suitable for connecting 4x25 sq.mm core Aluminium</p>		
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	<p>multi stranded PVCA cable with a detachable cable entry plate. The terminal block should be made of non hygroscopic materials with good insulating properties and strong enough to withstand the cable load and the temperature generated inside the Generator's control room.</p> <p>12) <u>HOUSING AND MOUNTING</u>: The Alternator should be directly coupled with engine and both shall be mounted on a common fabricated channel base frame complete with anti vibration mountings. Alternator should be provided with single end bearing at the Non-Driving End.</p> <p><b>c) <u>TECHNICAL SPECIFICATION - ACOUSTIC ENCLOSURE</u>:</b></p> <p>The generating set comprising of engine coupled with alternator for each set should be placed inside an acoustic enclosure having the following salient features:</p> <ul style="list-style-type: none"> <li>(i) The acoustic enclosure should be of modular construction with the provision to assemble and disassemble easily at site. There should also be adequate provision of taking out the equipment for maintenance / repairing jobs and reinstalling the same after necessary corrective action.</li> <li>(ii) The engine generator shall be factory enclosed in not less than a 12 gauge cold rolled steel enclosure constructed with corner posts, uprights and headers. The weather- proof and corrosion resistant acoustic enclosure should be duly surface treated, phosphated and finally powder coated for long lasting finish. The sheet metal components should preferably be hot dip, pre-treated before powder coating with special pure polyester based powder.</li> <li>(iii) The sound proofing of the enclosure should be done conforming to CPCB -II norms.</li> <li>(iv) The enclosure must be such that sound level is within permitted limit at 1 meter from the enclosure surface. The exhaust silencer shall be supplied with a flexible, seamless, stainless steel exhaust connection as well as with all internal pipe works. These components must be properly sized to ensure the operation with minimum back pressure.</li> <li>(v) The canopy should be finished in synthetic enamel paint incorporating rust inhibitors and Aluminium sprayed silencers and spark arrestors to guarantee a superior and long lasting finish.</li> <li>(vi) There should be carefully designed inlet and outlet baffles / attenuators with corresponding weather conditions allowing sufficient air flow, for the set to operate even under the harshest ambient conditions whilst maintaining specified noise levels. Suitably sized blower should be incorporated to meet total air requirement and temperature within the enclosure and Generator house to be maintained.</li> </ul>		
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	<p>(vii) The temperature inside the enclosure should be suitable for human comfort. There should be a provision of emergency shutdown of the generating set (Prime Mover) from outside the enclosure in addition to the control panel fitted outside the Canopy.</p> <p>(viii) The enclosure should be complete with power and control wiring between control panel installed outside the Genset Enclosure and Alternator and other components like blowers etc with proper size copper cable. The cables should be terminated using gland and tinned copper sweating sockets and run through guard pipe. The enclosure should have the sufficient space in and around the generating set to facilitate maintenance and operation of the set.</p> <p>(ix) The control panel for the Generating set should be installed separately at existing location of control panel in the Repeater Station.</p> <p>(x) <u>ENCLOSURE ILLUMINATION</u>: A separate circuit shall be provided for lighting of the acoustic part of the enclosure.</p> <p>(xi) Enclosure design should be such that for any major maintenance activities the enclosures from any side can be easily dismantled and re-erected.</p> <p>(xii) Generating set comprising of Engine, Alternator and other auxiliaries should be placed inside an acoustic enclosure (approved by ARAI, Pune/ NPL, New Delhi/ NSTL, Visakapatnam/ FCRI, Palghat / NAL, Bangalore) and the unit should be mounted to a common base frame. The set should have proper arrangement for easy loading /unloading to facilitate ease in transportation.</p> <p>(xiii) A panel viewing window should be provided to facilitate visual monitoring of the equipment from outside.</p> <p>(xiv) <u>SKID</u>: The skid should be fabricated from sufficiently strong steel section for carrying the generating set from one place to another from time to time.</p> <p><u>NOTE</u>: Bidders should submit layout drawing of the acoustic enclosure indicating positions of engine, alternator, and control panel etc along with the wiring diagram of the package and will have to be approved by OIL before execution of the order.</p> <p><b>d) <u>GENERAL NOTES</u>:</b></p> <p>a. The offer will not be acceptable if the party do not quote for all items of the tender and supply, installation, commissioning of all items and cables.</p> <p>b. Any deviation from the tender specification shall be specifically mentioned. Specific type and make of equipment should be mentioned. All the information required as per tender specifications must be submitted.</p>		
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	<p>c. In the event of an order the bidder will submit to OIL within one month of placement of order all documents and drawings as required against each item.</p> <p>d. The manufacture of the equipment is to be started only after written approval of the required drawings/ documents by OIL as mentioned in tender against all equipments.</p> <p>e. The bidder will be responsible for safety of its personnel and safety of all the equipment. All the safety gadgets required to carry out the job of installation and commissioning at different sites shall be provided by the bidder.</p> <p>f. Bidder will be responsible for safe custody of all the items before handing over to OIL.</p> <p>g. Handing over to OIL means supply, installation and commissioning of all items as per order and submission of all the documents and drawings as per order.</p> <p>h. The bidder to strictly ensure that all the cut ends of cables, packing materials, leftover items are removed from site after completion of work.</p> <p>i. No environmental damage shall be done while carrying out the job.</p> <p>j. All the test reports must be signed by licensed electricians, jointers and supervisors who have carried out the installation and commissioning work as per order.</p> <p><b>e) <u>PARTS LIST, INSTRUCTION MANUAL &amp; DRAWING:</u></b></p> <p>A. The supplier should provide Six(6) sets each of the manuals and books listed below for each unit:</p> <ol style="list-style-type: none"> <li>1. <u>OPERATING INSTRUCTIONS</u>- with description and illustration of all switchgear controls and indicators and engine and generator controls.</li> <li>2. <u>PARTS BOOKS</u>-that illustrate and list all assemblies, subassemblies and components, except standard fastening hardware (nuts, bolt, washers etc.).</li> <li>3. <u>PREVENTIVE MAINTENANCE INSTRUCTIONS</u>- on the complete system that cover daily, weekly, monthly, biannual, and annual maintenance requirements and include a complete lubrication chart.</li> <li>4. <u>ROUTINE TEST PROCEDURES</u>-for all electronic and electrical circuits, engine fault protection devices and for the main AC generator.</li> <li>5. <u>TROUBLESHOOTING CHART</u>- covering the complete generator set showing description of trouble, probable cause and suggested remedy.</li> </ol>		
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	<p>6. <u>RECOMMENDED SPARE PARTS LIST</u>- showing all consumables anticipated to be required during routine maintenance and test.</p> <p>7. <u>ENGINE WIRING DIAGRAM AND SCHEMATICS</u>- showing function of all electrical components.</p> <p>8. Drawing showing installation details of the generating set, type of skid, wiring diagram for the control panel and wiring drawing between the alternator, control panel and engine mounted local panel.</p> <p>9. All panel diagrams and schematic diagrams are to be sent to us before supply of order materials.</p> <p>B. All manuals and books described above shall be contained in rigid plastic pouches and in digital form along with the Genset.</p> <p><b>f) <u>SPARES AND SERVICE:</u></b></p> <p>(i) <b>(a) Bidders to provide Commissioning Spares required for commissioning of the Gensets. Bidder shall submit a list of such commissioning spares with price along with the bid. All such spares shall be supplied along with the main equipment. <u>This will be considered during evaluation of the Bid.</u> The Contractor/Supplier shall return to OIL all unused and left over commissioning spares, after successful commissioning of the gensets.</b></p> <p><b>(b) Bidder shall, in addition, provide a list of 2 (two) years OEM recommended spares along with prices and quantity. <u>The prices of these recommended spares will not be considered while evaluating the main bid.</u> However, the prices shall remain firm for a period of 2(two) years after successful commissioning of the gensets.</b></p> <p>(ii) The bidder shall submit written assurance from Engine &amp; Alternator OEM along with the offer in regard to services and availability of all spares for next 10 (Ten) years from the date of commissioning of the Unit.</p> <p>(iii) The manufacturer should have an authorized dealer who can provide factory trained servicemen, the required stock of replaceable parts, technical assistance.</p> <p>(iv) <b><u>AFTER SALES SERVICE:</u></b> Bidder should indicate the availability of nearest authorised service centre along with the details of infra structural capabilities.</p> <p><b>g) <u>DRAWINGS AND MANUALS:</u></b></p> <p>(i) Technical literature / catalogue and electrical circuit diagram to be enclosed with the quotation/offer for</p>		
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	<p>our necessary scrutiny.</p> <p>(ii) Test certificates to be provided with each Generator Set and these tests to be carried out as per IS specification.</p> <p>(iii) Instruction manual, Technical literature and electrical circuit diagram along with each Gen. Set are to be supplied.</p> <p><b>h) <u>INSPECTION &amp; TESTING:</u></b></p> <p>Inspection at manufacture's workshop of the Engine and Alternator:</p> <p>(i) OIL shall witness the testing/inspection of 3(Three) gensets out of total 15(Fifteen) Gensets, in 3(Three) separate visits.</p> <p>(ii) Manufacturer's standard tests of the Engine and Alternator shall be witnessed by OIL.</p> <p>(iii) Cost related to the above inspections i.e costs of testing &amp; Inspection including consumables shall be on account of the Vendor.</p> <p>(iv) Travel, Accommodation and other costs of OIL's Engineers during the inspection will be borne by OIL</p> <p><b>i) <u>WARRANTY:</u></b></p> <p>The DG set comprising of Engine &amp; Alternator shall be warranted against defective material/ faulty workmanship/ faulty operation for a period of minimum 12 months from the date of commissioning.</p> <p><b>j) <u>STATUTORY CONFORMANCE:</u></b></p> <p>(i) The offered Generating Sets shall comply with the latest CPCB norms/regulations.</p> <p>(ii) In the event of any new CPCB norms/regulations governing Diesel Engine driven Generating Set are made effective prior to delivery of the Gen Set (but after bid closing date) the supplied Gen Set shall comply with the latest CPCB norms/ regulations.</p> <p>(iii) The compliance report from Govt. approved agencies must be submitted prior to dispatch of the Gen Set for OIL's scrutiny and acceptance.</p>		
20	<p><b><u>CONTROL PANEL- ASSAM SECTOR</u></b></p> <p><b><u>ITEM DESCRIPTION:</u> Control Panels</b></p> <p><b><u>SCOPE OF WORK:</u></b></p> <p>Complete Design, Manufacture/Assembly, inspection, testing, packing, loading, transportation, unloading, safe storage of</p>	8 Nos.	

Generator control Panels as replacement to one of the three existing 25 KVA DG Control Panels at Repeater Stations of OIL.

**GENERATOR CONTROL PANEL**

OIL's Repeater Stations are unmanned and Control Schematic shall be totally Automatic for starting and loading of the DG sets. The Repeater Station has 1 No. 20 KW Solar Power plant and 3 Nos 25 KVA D.G set. The operational philosophy of the sets shall be as under:-

1. Control design basis will be as per existing control panel scheme of OIL with modification for solar power control as necessary(refer Diagram-2 , Page 1 & 2).Hence, generator control panel must be designed to facilitate the following operations:-
  - a) DG under Solar Control
    - (i) 100% management by Solar Power plant.
    - (ii) Set will START on Start command from Solar.
    - (iii) Set will STOP on Stop command from Solar.
    - (iv) Set will not Start automatically even under Power failure condition.
  - b) DG under Solar Bypass/DG on Auto mode
    - (i) Set will START on failure of running D.G set (Any electrical or engine related fault).
    - (ii) Set will automatically take the entire load.
  - c) DG on Manual mode
    - (i) Set can be started in manual mode, irrespective of the running condition of other D.G /Solar.
    - (ii) Manual electrical Loading of the set shall be possible without stopping the running engine (DG electrical Load transfer).
  - d) DG Auto starting sequence shall be managed using Multifunctional relay(s).
  - e) Voltage out of band and Frequency out of band faults shall result in an Engine shutdown. In Manual mode this shutdown shall remain bypassed.
  - f) Alarm indication /reset shall be available for
    - (i) Voltage out of band
    - (ii) Frequency out of band
    - (iii) Common Engine fault
  - g) In addition, the panels shall also be fitted with 1 No each Analog Alternator Voltmeter & Alternator Ammeter with selector switches.
  - h) Smart/Multifunctional Power meters shall be provided for KWH, KW, KVAR, P.F, Phase and Line voltages, Line currents and Frequency. The meter shall have serial link for



	<p>communication with OIL's SCADA system.</p> <p>i) Engine Running hour meter.</p> <p>j) In-built Battery Charger with Auto/Manual Boost/Float charging feature should be incorporated to charge the DG Set Battery. Output D.C voltage, Battery Voltage and charging current indicating instruments are to be provided.</p> <p>k) Suitable 4 poles MCCB with Adjustable Thermal-Magnet Release along with Switch-Disconnecter Fuses of suitable rating &amp; type shall be provided in the panel for incoming Power from Alternator.</p> <p>l) The outgoing power from the Generator Control Panel to Distribution Panel shall be through Suitable Power Contactor.</p> <p>m) Control Panel wiring: Both control &amp; power interconnection wirings shall be done with copper flexible PVC wires (ISI Marked &amp; 1100 volt grade) with accepted colour codes. The control wiring shall be of minimum 2.5 sq mm stranded.</p> <p>n) Incoming power cable from Alternator to Control Panel shall be of suitable size PVC insulated, PVC sheathed, armoured Aluminium Cable with ISI mark &amp; 1100 volt grade. This shall be in Bidder's scope of work.</p> <p>o) The panel board must be built by M.S Sheet of suitable gauge, floor mounted type, IP-44, with load bearing member, doors, partitions, covers, equipment mounting plate &amp; removable gland plate, painted with texture finish electro-static paint ( Powder Coating) with paint thickness 80(+)(-)20 microns.</p> <p>p) The test certificate as per relevant IS standards for the individual panel shall be submitted with the panel along with test certificates for all major individual components of panel as applicable.</p> <p>q) The Bidder shall study our existing system carefully during bidding &amp; execution.</p> <p>r) The vendor shall have the Control Panel Schematic approved by OIL prior to manufacturer. All equipment shall be as per OIL approved makes only.</p> <p>s) The supplier shall supply mandatory &amp; critical spares for panels for at least two years after warranty along with the panel. As a minimum 1 No spare Smart/Multifunctional Power meters shall be provided with each DG set.</p> <p><b>2. <u>INSPECTION:</u></b></p> <p>a) <b>The Company</b> shall as it may deem fit depute their Engineer/ Inspector to carryout factory inspection and test the equipment when the panels are manufactured/ assembled before their dispatch, for confirmation of the technical specifications by the bidder.</p>		
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	<p>b) The Company also has the right to inspect raw materials, components, accessories etc. including facility available with Contractor to carry out these jobs.</p> <p>c) For all electronics components, the items should be designed/suitable for a temperature of 50°C.</p> <p>d) Manufacturer's certificates in triplicate to be submitted to OIL for all equipment/ instruments.</p> <p>e) On completion of the work, tests are to be carried out before commissioning. All test certificates in triplicate should be handed over to OIL.</p> <p><b>3. DRAWINGS AND MANUALS</b> - Bidder must hand over six sets of final as built drawing of each of the following:-</p> <p>a) installation details,</p> <p>b) wiring diagram for the control panel(inclusive of float charger ) and</p> <p>c) wiring drawing between the alternator, control panel and local engine mounted panel.</p>		
30	<p><b><u>DISTRIBUTION PANEL- ASSAM SECTOR</u></b></p> <p><b><u>ITEM DESCRIPTION:</u></b> Distribution panel</p> <p><b><u>SCOPE OF WORK:</u></b></p> <p>Complete Design, Manufacture/Assembly, inspection, testing packing, loading, transportation, unloading, safe storage of Distribution Panels as replacement to existing 25 KVA DG Set distribution panels at Repeater Stations of OIL.</p> <p><b><u>DISTRIBUTION PANEL:</u></b></p> <p>1. <b>Panel wiring:</b> Both control &amp; power interconnection wirings shall be done with copper flexible PVC wires (ISI Marked &amp; 1100 volt grade) with accepted colour codes. The control wiring shall be of minimum 2.5 sq mm stranded.</p> <p>2. The panel board should house the following:</p> <p>a) TPN Copper Insulated Bus Bars of suitable size &amp; mountings with connections &amp; spare 3 blank holes in each bus.</p> <p>b) 4 Nos Electrical &amp; mechanically interlocked TPN Power Contactors as shown in the Diagram-2 (pg 1 and 2) for Load Transfer.</p> <p>c) Incomer: 3 Nos x 63 Amp TPN Switch Disconnecter Fuse units</p> <p>d) Outgoing :</p> <ul style="list-style-type: none"> <li>- 2 Nos x.63 Amp TPN MCCB</li> <li>- 6 Nos x 32 Amp TPN MCB</li> <li>- 6 Nos x 10 Amp TPN MCB</li> </ul>	8 Nos.	

	<ul style="list-style-type: none"> <li>- 4 Nos x 04 Amp TPN MCB</li> <li>- 2 Nos x 1.2 KW, TPN, DOL starter for moterised valve open/close operation complete with OPEN &amp; CLOSE LED indication</li> <li>- 3 Nos x 9 Amps,TPN contactor, with ON LED indication</li> </ul> <p>e) Smart/Multifunctional Power meters for measuring the total load shall be provided. Parameter display shall include KWH, KW, KVAR, P.F, Phase and Line voltages, Line currents and Frequency. The meter shall have serial link for communication with OIL's SCADA system.</p> <p>f) LED Phase Indication - 3 nos.</p> <p>g) The panel board must be built by M.S Sheet of suitable gauge, floor mounted type, IP-44 ,with load bearing member, doors, partitions, covers, equipment mounting plate &amp; removable gland plate, painted with texture finish electro-static paint ( Powder Coating) with paint thickness 80(+)(-)20 microns.</p> <p>h) <u>Panel wiring</u>: Both control &amp; power interconnection wirings shall be done with copper PVC wires (ISI Marked &amp; 1100 volt grade) with accepted colour codes. The control wiring shall be of minimum 2.5 sq mm stranded.</p> <p>i) Incoming power cable to the new distribution panel from the new control panel shall be of suitable size PVC insulated, PVC sheathed, armoured Aluminium Cable with ISI mark &amp; 1100 volt grade. This shall be in Bidder's scope of work.</p> <p>j) Construction, testing etc. and earthing shall be same as described for Generator Control Panels.</p> <p>k) Terminal strip for termination of incoming and outgoing power cable shall be provided at the bottom of the DB panel.</p> <p>l) The test certificate as per relevant IS standards for the individual panel shall be submitted with the panel along with test certificates for all major individual components of panel as applicable.</p> <p>m) The Bidder shall study our existing system carefully during bidding &amp; execution.</p> <p>n) The vendor shall have the Panel Schematic approved by OIL prior to manufacturer. All equipment shall be as per OIL approved makes only.</p> <p>o) The supplier shall supply mandatory &amp; critical spares for panels for at least two years after warranty along with the panel.</p>		
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	<p><b>3. <u>INSPECTION:</u></b></p> <p>a) The Company shall as it may deem fit depute their Engineer/ Inspector to carryout factory inspection and test the equipment when the panels are manufactured/ assembled before their dispatch, for confirmation of the technical specifications by the bidder.</p> <p>b) The Company also has the right to inspect raw materials, components, accessories etc. including facility available with Contractor to carry out these jobs.</p> <p>c) For all electronics components, the items should be designed/suitable for a temperature of 50°C.</p> <p>d) Manufacturer's certificates in triplicate to be submitted to OIL for all equipment/ instruments.</p> <p>e) On completion of the work, tests are to be carried out before commissioning. All test certificates in triplicate should be handed over to OIL.</p> <p><b>4. Bidder must hand over six sets of final as built drawing of each of the following:-</b></p> <p>a) installation details,</p> <p>b) wiring diagram of Distribution Feeder Panel, and</p> <p>c) wiring drawing between the control panel and Distribution Feeder Panel.</p>		
<b>40</b>	Generator set for Repeater Stations located in West Bengal Item Description: Same as item 10	<b>4 Nos.</b>	
<b>50</b>	Control Panel for Repeater Stations located in West Bengal Item Description: Same as item 20	<b>4 Nos.</b>	
<b>60</b>	Distribution Panel for Repeater Stations located in West Bengal Item Description: Same as item 30	<b>4 Nos.</b>	
<b>70</b>	Generator set for Repeater Stations located in Bihar Item Description: Same as item 10	<b>3 Nos.</b>	
<b>80</b>	Control Panel for Repeater Stations located in Bihar Item Description: Same as item 20	<b>3 Nos.</b>	
<b>90</b>	Distribution Panel for Repeater Stations located in Bihar Item Description: Same as item 30	<b>3 Nos.</b>	
<b>100</b>	<p><b><u>INSTALLATION , COMMISSIONING, TESTING AND HANDING OVER OF 15 NOS X 25 KVA D.G. SETS IN THE STATES OF ASSAM, WEST BENGAL &amp; BIHAR:</u></b></p> <p>Installation and Commissioning of the Generating set, Control panels &amp; Distribution Feeder Panels shall be carried out by the supplier in the presence of OIL representatives at its Repeater Stations located in three different states of Assam, Bengal &amp; Bihar. Services of qualified and competent personnel from equipment vendor are essential during installation and commissioning of the generating sets.</p> <p>Persons engaged for installation, testing and commissioning of alternator, control panel &amp; Distribution Panels should have</p>	<b>1 AU</b>	

	<p>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>Installation, Testing &amp; commissioning includes site preparation and modification of the whole system comprising 15 (fifteen) units of Gen Sets with its control panels and 15(fifteen) nos. of Distribution feeder panel with auto changeover &amp; manual changeover facility in 15 nos. of Repeater Stations located in different locations as per attached list herewith.</p> <p>One (1) unit of Gen set out of existing 3 units with its Control Panel &amp; One no. Distribution feeder Panel has to be dismantled before installation &amp; commissioning of new set and a Temporary Distribution panel has to be placed for un-interrupted power supply during commissioning period. All related materials, cables, consumables &amp; dismantling of old sets and corresponding distribution panel are in the scope of Supplier.</p> <p>OIL will provide necessary permits for welding and cutting jobs in hazardous areas as and when required. These charges shall include amongst others to and fro fares, boarding/ lodging and other expenses of the commissioning engineers during their stay at Designated Repeater Stations. Bidders should also confirm about installation/ commissioning program in the Technical Bid.</p> <p>The supplier should divide the work in three groups for installation, commissioning &amp; testing of the Gen Sets with its panels. The Three Group should work simultaneously in three different locations, so that the duration of installation &amp; commissioning period can be minimized.</p> <p><b><u>INSTALLATION, TESTING AND COMMISSIONING AT SITE FOR:-</u></b></p> <p>1. <b><u>GENERATING SET -</u></b></p> <p>As per standard practice, bidder must make at least two number of neutral earthing connections from the alternator neutral terminal to the existing neutral earthing system. Also, bidder must make at least two numbers of alternator frame earthing connections to the existing frame earthing system. Supply of material (necessary size of GI earthing strips, lugs etc.), labour and all associated civil jobs for earthing work will be in bidder's scope.</p> <p>2. <b><u>GENERATOR CONTROL PANEL -</u></b></p> <p>a) All civil works including supply of materials and labour in connection with installation, testing and commissioning work have to be carried out by the supplier.</p> <p>b) The panels shall be earthed as per standard practice. Bidder must make at least two numbers of frame earthing connections from the panel body to existing frame earthing system. All doors shall have earthing with main frame through copper braided wires. Supply of necessary earthing material, labour and all</p>		
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	<p>associated civil jobs for earthing work will be in bidder's scope.</p> <p>c) Disconnection of power and control cables of existing control panel has to be carried out by bidder.</p> <p>d) Removal, dismantling and thereafter transportation of existing control panel outside the generator house and placement under GI sheet has to be carried out by bidder.</p> <p>e) Transportation and placement of new control panel inside generator house has to be carried out by bidder. Necessary grouting work of panel to be done by bidder.</p> <p>f) Connection of existing and new power and control cables in the new control panel including necessary glanding, lugging and terminations have to be carried out by the bidder. Supply of requisite cable lugs and cable glands shall be in bidder's scope.</p> <p>g) Necessary breaking of floor for laying of control and power cables and then repairing and restoring to original condition will be in bidder's scope.</p> <p>3. <u>DISTRIBUTION PANEL –</u></p> <p>a) All civil works including supply of materials and labour in connection with installation, testing and commissioning will have to be carried out by the supplier.</p> <p>b) The panels shall be earthed as per standard practice. Bidder must make at least two numbers of frame earthing connections from the panel body to existing frame earthing system. All doors shall have earthing with main frame through copper braided wires. Supply of necessary material, labour and all associated civil jobs for earthing work will be in bidder's scope.</p> <p>c) Disconnection of power and control cables of existing panel has to be carried out by bidder.</p> <p>d) Removal, dismantling and thereafter transportation of existing panel outside the generator house and placement under GI sheet has to be carried out by bidder.</p> <p>e) Transportation and placement of new distribution panel inside generator house has to be carried out by bidder. Necessary grouting work of panel to be done by bidder.</p> <p>f) Connection of existing and new power and control cables in the new distribution panel including necessary glanding, lugging and terminations have to be carried out by the bidder. Supply of requisite cable lugs and cable glands will be in bidder's scope.</p> <p>g) Necessary breaking of floor for laying of control and</p>		
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	<p>power cables and then repairing and restoring to original condition will be in bidder's scope.</p> <p><b><u>Notes:</u></b></p> <p>a) Once commissioned at designated site the generating set will be subjected to a trial run (reliability run) on available load for a minimum period of 48 hrs continuously and on satisfactory performance shall be subsequently handed over to OIL.</p> <p>b) Vendor will give 14 days advance notice to OIL prior to installation of the Genset.</p> <p>c) OIL will do necessary arrangement to bring back all dismantled items like old D.G.Set, Control panel &amp; Distribution panel from each site to a proper storage location as needed.</p>		
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**LIST OF REPEATER STATION LOCATIONS**  
**STATE OF ASSAM**

Sl. No.	Name of Repeater Station	Name of Village	PL KM	Mouza	Circle	District
1	RS1, Maduri	Sensowanamdongia	90	Saloguri	Amguri	Sibsagar
2	RS2, Badulipar	Chengnigaon	172	Rangamati	Khumtai	Golaghat
3	RS3, Kaziranga	Gosanibargaon	214	Kaziranga	Bokakhat	Golaghat
4	RS4, Ghani	Ghahigaon Bhatikuri	313	Jagiyal	Roha	Nowgaon
5	RS5, Jagiroad	Ghunushahabi	360	Gova	Mayang	Morigaon
6	RS8, Dharamtul	Panigaon	468	Pokowa	Chamota	Nalbari
7	RS9, Barpeta Road	Jhakhalipar Town	513	Gobardhona	Barnagar	Barpeta
8	RS10, Pratapkhata	Pratapkhata	603	Kharijadolio	Dorma	Kokrajhar

**STATE OF WEST BENGAL**

Sl. No.	Name of Repeater Station	Name of Village	PL KM	Mouza	Circle	District
1	RS11, Chepani	Chepani	655	-	Alipurduar	Jalpaiguri
2	RS12, Binaguri	Binaguri	729	-	Dhupguri	Jalpaiguri
3	RS13, Odlabari	Odlabari	784	-	Matali	Jalpaiguri
4	RS14, Kisanganj	Balichuka Pachim	906	-	Goalpokhora	Dinajpur

**STATE OF BIHAR**

Sl. No.	Name of Repeater Station	Name of Village	PL KM	Mouza	Circle	District
1	RS15, Belgachi	Belgachi	958	-	Purnia	Purnia
2	RS16, Thanabipur	Jamunia	1058	-	Bihpur	Bhagalpur
3	RS17, Khagaria	Sonawari	1111	-	Khagaria	Bhagalpur



**Tender No & Date: SGI2825P17 dated 26.10.2016****BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)**

<b><u>Criteria</u></b>	<b>Complied / Not Complied. (Remarks if any)</b>
<p>1.0 <b><u>BID REJECTION CRITERIA (BRC)</u></b></p> <p>The bid shall conform generally to the specifications and terms and conditions given in this bidding document. Bids shall be rejected in case the goods/materials offered do not conform to required parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bids to the stipulated specifications, the following mandatory requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected. All the documents related to BRC must be uploaded alongwith the Technical Bid.</p> <p>Other terms and conditions of the enquiry shall be as per general terms and conditions vide MM/LOCAL/E-01/2005 for E-procurement Indigenous Tenders (LCB). However, if any of the clauses of the BRC/BEC contradict the clauses of the tender or MM/LOCAL/E-01/2005 elsewhere, those in the BRC/BEC shall prevail.</p> <p><b>A. <u>TECHNICAL</u></b></p> <p>1.0 <b><u>Bidder's Qualification:</u></b></p> <p>1.1 Bidder shall be an Original Equipment Manufacturer (OEM) of (a) Complete Generating set or (b) Engine</p> <p style="text-align: center;">OR</p> <p>Bidder shall be a 100% Subsidiary or Sister concern of Original Equipment Manufacturer (OEM) of (a) Complete Generating set or (b) Engine</p> <p style="text-align: center;">OR</p> <p>Bidder shall be an authorized dealer of the OEM of (a) Complete Generating set or (b) Engine</p> <p style="text-align: center;">OR</p> <p>Bidder shall be an OEM approved assembler of Generating set.</p> <p>1.2 Engine and Alternator should be procured directly from OEM or OEM's 100% subsidiary or OEM's Sister concern or OEM's authorized dealer</p> <p><u>Note:</u> But whatever may be their status in para 1.1 &amp; 1.2 above, Bidder will have to enclose documentary evidence along with the offer failing which offer will be rejected.</p> <p>2.0 <b><u>Bidder's Experience:</u></b></p> <p>2.1 The Bidder shall have a minimum experience of 1 (one) order of supplying and commissioning DG Set(s) of capacity 25 KVA or above for a total order value of</p>	

Rs.1.09 Cr in the last 5(Five)years reckoned from the original bid closing date.

OR

The Bidder shall have a minimum experience of supplying and commissioning 8(Eight) no of D.G. Sets of capacity 25KVA or above in the last 5(Five) years reckoned from the original bid closing date.

2.2 Documentary evidence in the form of contracts/ purchase order and completion certificate from the user, must be provided along with the bid failing which offer will be rejected.

3.0 Spares Availability:

3.1 The bidder should provide written confirmation from OEM that the spares will be available for the next 10(Ten) years.

4.0 Statutory Conformance:

4.1 The bidder must categorically confirm the following in their bid, failing which bid shall be rejected:

(a) The offered Generating Sets shall comply with the latest CPCB norms/regulations.

(b) In the event of any new CPCB norms/regulations governing Diesel Engine driven Generating Set are made effective prior to delivery of the Gen Set (but after bid closing date) the supplied Gen Set shall comply with the latest CPCB norms/ regulations.

5.0 Technical Conformance:

5.1 The Diesel Engine shall be Air Cooled, Compressor Ignition, capable of developing net minimum 32 BHP at 1500 RPM. Performance rating as per IS 10002:1981 as amended to date and maximum fuel consumption as follows:

Specific Fuel Consumption (SFC) for direct injection engine is 252 g/Kwh and for indirect injection engine is 277 g/Kwh.

5.2 The Alternator must be brushless type.

5.3 The whole Set shall be provided with acoustic enclosure.

6.0 Bidder must quote for all items in the tender, failing which bid shall be rejected.

7.0 Delivery & Installation/Commissioning:

Delivery at sites shall be completed within 6(six) months from the date of issue of Purchase Order. Bidder quoting delivery period more than 6(six) months shall be rejected. However, bidder to quote their best delivery period.

Installation & commissioning of all the equipment shall be completed within 4(four) months from the date of site hand over by OIL. Bidder quoting Installation & commissioning period more than 4(four) month shall be rejected.

**B. FINANCIAL**

(i) 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. 109.24 Lakhs.

(ii) Net worth of bidder must be positive for preceding financial/ accounting year.

(iii) 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'.

Notes:

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

1) 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 – FFF.

OR

2) 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.

**C. COMMERCIAL**

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

(ii) Bid security:

a) The bid must be accompanied by Bid Security of Rs 4,36,960.00 in OIL's prescribed format as Bank Guarantee or a Cashier's cheque or Demand Draft in favour of OIL. The Bid Security may be submitted manually in sealed envelope superscribed with Tender no. and Bid Closing date to Chief Manager Materials, Oil India Limited, Pipeline Headquarters, P.O. Udayan Vihar, Guwahati-781 171, Assam on or before the Bid Closing Date and Time mentioned in the Tender. The Bank Guarantee towards Bid Security shall be valid for 90 days from the Bid Validity as mentioned in Sl. No. (i) above, i.e. upto 06<sup>th</sup> July, 2017. Cashier's cheque or Demand Draft shall be valid for minimum 90 days or as per RBI's guidelines, drawn on "Oil India Limited" and payable at Guwahati, Assam.

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

c) If bid security in ORIGINAL of above mentioned Amount and Validity is not received or paid online within bid closing date and time, the bid submitted through electronic form will be rejected without any further consideration.

d) For exemption for submission of Bid Security, please refer Clause No. 8.16 of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.

e) The format of Bank Guarantee towards Bid Security (Annexure – VII) has

been amended to Annexure – VII (Revised) and bidders should submit Bank Guarantee towards Bid Security as per Annexure – VII (Revised) only.

*Note: For details of submission procedure, please refer relevant para of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.*

(iii) Bids are to be submitted in under **SINGLE STAGE TWO BID SYSTEM**, i.e. Technical Bid (Unpriced) and Priced Bid separately. Bids shall be rejected outright if the technical bids contain the prices. Bidders have to submit both the “Techno-commercial Unpriced Bids” and “Priced Bids” through electronic form in the OIL’s e-Tender portal within the bid Closing date and time stipulated in the e-tender. The Techno-commercial Unpriced bid is to be submitted as per scope of works and Technical specification of the tender and the priced bid as per the online Commercial bid format.

(iv) Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of twelve months from the date of commissioning of the complete package at site against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier’s expenses at no extra cost to OIL.

(v) Performance Security:

The successful bidder shall submit Performance Security @ 10% of Purchase Order value within 30 days of receipt of the formal purchase order failing which OIL reserves the right to cancel the order and forfeit the Bid Security. Bidders should undertake in their bids to submit Performance Security as stated above.

*Note: For details of submission procedure, please refer relevant para of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.*

(vi) 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.

(vii) Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.

(viii) All the Bids must be Digitally Signed using “Class 3” digital certificate with Organisation’s name (e-commerce application) 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 and/or without Organisation’s Name, will be rejected.

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

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

- a) Validity of bid shorter than the validity indicated in the Tender.
- b) Original Bid Security not received within the stipulated date & time mentioned in the Tender.
- c) Bid Security with (i) Validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender.
- d) In case the party refuses to sign Integrity Pact.
- e) Annual Turnover of a bidder lower than the Annual turnover mentioned in the Tender.

## 2.0 BID EVALUATION CRITERIA (BEC)

The bids conforming to the terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria as well as verification of original of any or all documents/ documentary evidences pertaining to BRC, will be considered for further evaluation as per the Bid Evaluation Criteria given below.

- (i) To ascertain the inter-se-ranking, the comparison of the responsive bids will be made as per price format given in APPENDIX-I.
- (ii) To evaluate the inter-se-ranking of the offers, State Entry Tax on purchase value will be loaded as per prevailing Govt. of State guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their offer.
- (iii) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

iv) Integrity Pact:

OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure JJJ 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 SATYANANDA MISHRA, IAS(Retd.)  
Former Chief Information Commissioner of India &  
Ex-Secretary, DOPT, Govt. of India  
e-Mail ID : [satyanandamishra@hotmail.com](mailto:satyanandamishra@hotmail.com)

- SHRI RAJIV MATHUR, IPS (Retd.)  
Former Director, IB, Govt. of India,  
e-Mail ID : rajivmathur23@gmail.com

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

**PRICED BID FORMAT (SUMMARY)**

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

**PRICED BID FORMAT (SUMMARY):**

ITEM S/NO.	ITEM DESCRIPTION	UOM	QTY.	UNIT PRICE	TOTAL PRICE
10	Generator set for Repeater Stations located in Assam	NO.	8		
20	Control Panel for Repeater Stations located in Assam	NO.	8		
30	Distribution Panel for Repeater Stations located in Assam	NO.	8		
40	Generator set for Repeater Stations located in West Bengal	NO.	4		
50	Control Panel for Repeater Stations located in West Bengal	NO.	4		
60	Distribution Panel for Repeater Stations located in West Bengal	NO.	4		
70	Generator set for Repeater Stations located in Bihar	NO.	3		
80	Control Panel for Repeater Stations located in Bihar	NO.	3		
90	Distribution Panel for Repeater Stations located in Bihar	NO.	3		
100	INSTALLATION AND COMMISSIONING	AU	1		

Note: For detail description of the items refer Annexure – AAA.

- (A) Total Material Value of Item nos. 10 to 30
- (B) Total Material Value of Item nos. 40 to 60
- (C) Total Material Value of Item nos. 70 to 90
- (D) Packing and Forwarding Charges on (A), (B) & (C)
- (E) Total Ex-works value (A+B+C+D)
- (F) Excise Duty including Cess (*Please indicate applicable rate of Duty*)
- (G) Total Ex-works value including Excise Duty & Cess (E+F)
- (H) Sales Tax (*Please indicate applicable rate of Tax*) - for Assam against (A), for West Bengal against (B) & for Bihar against (C) to be shown separately
- (I) Total FOR Despatching station value (G+H)
- (J) Road Transportation charges to sites
- (K) Insurance Charges
- (L) Entry tax on (A) for state of Assam, (B) for state of West Bengal, (C) for state of Bihar to be shown separately/ as applicable at the prevailing State Government rates
- (M) Total FOR Destination Value (G+H+I+J+K+L)
- (N) Pre-despatch inspection Charges, if any (*Lumpsum*)
- (O) Installation & Commissioning charges (Item no. 100) (*Lumpsum*)
- (P) Service Tax on Commissioning charges, if any (*Please indicate the rate of Tax*)
- (Q) Total Price of Commissioning Spares
- (R) Total Value, (M+N+O+P+Q) above
- (S) Total value in words :
- (T) Gross Weight :
- (U) Gross Volume :

Note:

- (i) Bidders to provide Commissioning Spares required for commissioning of the Gensets. Bidder shall submit a list of such commissioning spares with price along with the bid. All such spares shall be supplied along with the main equipment. This will be considered during evaluation of the Bid. The Contractor/Supplier shall return to OIL all unused and left over commissioning spares, after successful commissioning of the Gensets.
- (ii) Bidder shall, in addition, provide a list of 2 (two) years OEM recommended spares along with prices and quantity. The prices of these recommended spares will not be considered while evaluating the main bid. However, the prices shall remain firm for a period of 2(two) years after successful commissioning of the Gensets.

- (iii) Pre-despatch Inspection charges, Commissioning charges must be quoted separately (not to include in materials cost) on lumpsum basis which shall be considered for evaluation of the offers. These charges should include amongst others to and fro fares, boarding/lodging, local transport and other expenses of supplier's commissioning during their stay at the site.
- (iv) Bidders must categorically indicate the Pre-despatch Inspection charges, and Commissioning charges in their offers and must confirm about providing the same in their Technical bids. In case Pre-despatch Inspection and Commissioning charges are NIL/inclusive, bidder must categorically mention the same in their offer.
- (v) Summary of the prices, as per the bid format (Summary) mentioned above, to be up-loaded as "Priced Bid" separately.

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

<b>Tender no.</b>	
<b>Bidder's name</b>	

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.		
2	Confirm that Bid Security / Earnest Money has been submitted as per NIT (Wherever Applicable)?		
3	Confirm that you shall submit Performance security (in the event of placement of order) (Wherever Applicable)?		
4	Confirm that duly signed Integrity Pact has been submitted as per NIT (Wherever Applicable)?		
5	Confirm that you have submitted documentary evidence as per BRC 1.0 A (v).		
6	Confirm that you have submitted Balance Sheet and Profit and Loss Account of any of the preceding 3(three) financial years certified by a chartered accountant.		
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.		
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. (Conditional offer shall be liable for rejection.)		

**NOTE:** Please fill up the greyed cells only.



**CERTIFICATE OF ANNUAL TURNOVER & NETWORTH****TO BE ISSUED BY PRACTISING CHARTERED ACCOUNTANTS' FIRM ON THEIR  
LETTER HEAD****TO WHOM IT MAY CONCERN**

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

<b>YEAR</b>	<b>TURNOVER In INR (Rs.) Crores</b>	<b>NET WORTH In INR (Rs.) Crores</b>

Place:

Date:

Seal:

Membership No.:

Registration Code:

Signature:

**Bidder's Response Sheet****Annexure-GGG**

Tender No.
Bidders Name

**Bidders Response Sheet**

Sl No.	Description	Remarks
1	Place of Despatch	
2	Whether Freight charges have been included in your quoted prices	
3	Whether Transit Insurance charges have been included in your quoted prices	
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 (if applicable)	
8	Integrity Pact Submitted (if applicable)	
9	Whether you have submitted documentary evidence of successfully executing one Purchase order as stipulated in NIT in any of the preceding 5 financial years (*)	
10	Whether you have submitted Balance Sheet and Profit and Loss Account of any of the preceding 3 financial years certified by a chartered accountant.	
11	Delivery Period in weeks from placement of order	
12	Complied to Payment terms of NIT (if applicable) otherwise to Standard Payment Terms of OIL or not.	
13	If bidder is MSE whether you have quoted your own product	
14	If bidder is Small scale unit , whether you are owned by SC/ST entrepreneur.	
15	If Bid security submitted as Bank Guarantee, Name and Full Address of Issuing Bank including Telephone, Fax Nos and Email id of branch manager	
16	Confirm that the Bid Security submitted (In case of Bank Guarantee) is in toto as per format provided in the bidding document.	
17	Bid Security if Not submitted, reasons thereof	

**NOTE: Please fill up the greyed cells only.**

(\*) Purchase Orders along with copies of any of the documents in respect of satisfactory execution of the Purchase Orders should be submitted – (i) Satisfactory Inspection Report (OR) (ii) Satisfactory Supply Completion / Installation Report (OR) (iii) Consignee Receipted Delivery Challans (OR) (iv) Central Excise Gate Pass / Tax , Invoices issued under relevant rules of Central Excise / VAT (OR) (v) any other documentary evidence that can substantiate the satisfactory

**ANNEXURE - JJJ**

**(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.