

# OIL INDIA LIMITED

(A Government of India Enterprise)

P.O. Udayan Vihar -781171

Guwahati, Assam (India)

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

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

e-Tender no.	Material Description	Tender Type	Tender Fee	Bid Closing Date
SGG2478P17	Flame Proof Pressure Switch Delta Type 234	ICB (International Competitive Bidding)	INR 6000.00 or USD 100.00	09.11.2016
SGG2479P17	Coating & Wrapping Materials for hydrocarbon pipeline	ICB (International Competitive Bidding)	INR 6000.00 or USD 100.00	09.11.2016
SGI2505P17	Panels	LCB(Local Competitive Bidding)	INR 1000.00	Pre-bid date -13.10.2016. Venue – Guwahati (B.C. Date to be decided after Pre-bid conference)

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. : SGI2505P17 dated 19.09.2016**

**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 Panel 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.

**SPECIAL NOTES:**

(1) A Pre-Bid Conference with the Bidders will be held in Guwahati (India) on 13<sup>th</sup> October , 2016 to discuss on the technical specifications and other terms and conditions of the tender.

(2) Bidders should submit their queries in relation to the tender document within 06.10.2016. This shall enable OIL to analyze your query and to make suitable response during pre-bid conference. However, bidders can also raise the query during the pre-bid conference.

(3)The bidders who have paid tender fee will only be authorized to attend pre-bid conference. Hence, bidders who submit tender fee within 15:30 hrs of 06.10.2016 will be allowed to participate in pre-bid.

The bidder who does not attend the pre-bid conference is also free to submit the bid.

(4) Any changes in the technical specifications and other terms & conditions of this tender arising out of discussion in the Pre-bid Conference shall also form part of the bidding document.

(5) At the most 2 (two) representatives from each prospective bidder shall be allowed to participate in the pre-bid conference. All costs for attending the pre-bid conference shall be to prospective bidders' account.

(6) Bidders are requested to inform OIL at the following address about their participation in the Pre-Bid Conference with details of the persons to enable OIL to make arrangement for the Pre-Bid Conference within 06.10.2016.

CHIEF MATERIALS MANAGER

OIL INDIA LIMITED (PIPELINE HEADQUARTER )

P.O UDAYAN VIHAR, PIN – 781171,GUWAHATI

ASSAM, INDIA

FAX NO. : +91 - 361 – 2643686

E-Mail : [oilmatpl@oilindia.in](mailto:oilmatpl@oilindia.in)

[panchali@oilindia.in](mailto:panchali@oilindia.in)

(7) Venue of Pre-bid will be Conference Hall at Oil India Limited , Pipeline Headquarters, Guwahati-781171, Assam.

Time: 08.30 am onwards to 4 pm.

(Lunch break from 12.00 pm to 1.15 pm.)

#### 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)
Monday – Friday	07.00 AM to 11.30 AM; 01.00 PM to 03.30 PM
Saturday	07.00 AM to 11.00 AM
Sunday and Holidays	Closed

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 for LT Panel
- (iv) Annexure DDD : Technical Checklist for RMU Panel
- (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 Checklist (Annexure CCC, 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

**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						

**Bid on "EDIT" Mode**

**Area for uploading Techno-Commercial Unpriced Bid\***

**Area for uploading Priced Bid\*\***

**Note :**

- \* 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: GROUP GENERAL MANAGER (PLS)**

## TECHNICAL SPECIFICATIONS WITH QUANTITY

Tender No &amp; Date: SGI2505P17 dated 19.09.2016

Item Srl. No.	DETAILED MATERIAL DESCRIPTION/ MATERIAL CODE	QUANTITY (UoM)	Please confirm if clause by clause Complied/ Not Complied, reasons, if any.
10	<p><b><u>DESIGN, MANUFACTURE, TESTING AND SUPPLY OF 6.6 KV/11 KV, 630 A, 4-WAY, 2 VCB AND 2 LOAD BREAK SWITCH, COMPACT, INDOOR EXTENDABLE TYPE SF6 INSULATED RING MAIN UNIT</u></b></p> <p>1.0 <b><u>SCOPE</u></b> This specification covers design, manufacture, testing and supply of 6.6 KV/11KV compact, 630A, 4 way, indoor, extendable type SF6 insulated Ring Main Unit with VCB at site. The RMU shall be indoor type comprise of two (02) Nos. Load Break Switch and two (02) Nos VCB and should be tested in accordance to IS/IEC 62271 or equivalent standards. It should be ready for operation on delivery.</p> <p>2.0 <b><u>APPLICABLE CODES AND STANDARDS</u></b> The latest revision/amendments of the IS/IEC codes and standards shall be applicable for the equipment.</p> <p>3.0 <b><u>DESIGN AND CONSTRUCTION REQUIREMENTS</u></b></p> <p>3.1 <b><u>General</u></b></p> <p>3.1.1 The ring main unit shall consist of the following configurations:</p> <p>i) 2 Nos. Load Break switches (Isolators) and 2 Nos. circuit breakers.</p> <p>ii) 2 Nos. 630A, 6.6 KV/11 KV Incoming Load Break Switches with integral Earth Switch</p> <p>iii) 2 Nos. 630A, 6.6 KV/11 KV Feeder Vacuum Circuit Breakers with self powered 3 O/C + 1 E/F numerical relays.</p> <p>iv) Voltage presence indicating system (VPIS) in all modules:</p> <p>3.1.2 The terminals of the switches shall be suitable for installation of XLPE cable sizes of 3C 6.6 KV 120 sqmm.</p> <p>3.1.3 All live parts of the switchgear and busbars assembly shall be grouped together and SF6 gas insulated in a gas-tight stainless steel chamber, and sealed.</p> <p>3.2 <b><u>Foundation</u></b></p> <p>3.2.1 The party shall develop foundation designs for the RMU</p>	3 Nos.	



based on the information/drawing furnished by the manufacturer of the RMU.

### 3.3 System Characteristics

The ring main unit shall be suitable to operate under system parameters.

Electrical and mechanical strength of ring main unit shall be designed to operate in a system to withstand a short circuit current of 21 kA for 3 second or more at 6.6 KV/11 KV nominal voltage.

### 3.4 Current Rating

The continuous current rating of the unit shall be in accordance with relevant IS/IEC standards:

Load break switches (Isolator) : 630 A, 6.6 KV/11 KV

Circuit Breaker : 630 A, 6.6 KV/11 KV

Bus Bar : 630 A, 6.6 KV/11 KV

3.5 Two (02) Nos. Vacuum Circuit Breakers with manual breaker ON/OFF operating mechanism, numerical type O/C, S/C, E/F protection relay with associated Current Transformers shall be used for control and protection of 200 KVA or higher rated Transformer. An integral cable earthing switch with full making capacity shall be provided.

3.6 The Load Break Switch, Bus bars should be mounted inside a welded sealed, stainless steel tank. The tank should be filled with SF6 gas at adequate pressure. The degree of protection for gas tank should be IP67. There shall be provision for filling the SF6 gas at site. The Stainless Steel Gas Tank shall confirm to the sealed pressure system as per IS/IEC and ensure the gas leakage to 0.1 % per year as per IS/IEC.

### 3.7 Busbar

Switchgear shall be complete with all connection, bus-bars etc. aluminium bus bars continuous rating shall be 630 Amps. The bus bars should be fully encapsulated by SF6 gas inside the steel tank.

### 3.10 Protection

The Circuit breaker shall be fitted with numerical type relay in conjunction with suitable ratio CT's for providing protection to transformers of 200KVA to 500 KVA ratings and Tripping Coil for fault tripping of the Circuit Breakers.

### 3.11 Cable Termination

Each Cable compartment shall be provided with three bushings of adequate sizes to terminate the incoming outgoing 6.6 KV 3 Core XLPE cables of 120 mmsq. The Cable termination shall

be done by Heat shrinkable Termination method so that adequate clearances shall be maintained between phases for Termination. Easy access to all the cables should be possible. Cable Termination boots & termination kits with suitable gland and socket shall be supplied by the supplier.

#### 4.0 **TECHNICAL SPECIFICATIONS**

##### 4.1. **Switchgear Data**

- a) Service : Indoor
- b) Type : Metal enclosed
- c) Number of Phases : 3
- d) System Voltage : 6.6 KV
- e) Rated Frequency : 50 Hz
- f) Rated Current : 630 Amps

##### 4.2. **Load Break Switches (Isolators)**

- a) Type : Load breaking and fault making
- b) Rated Current : 630 Amps
- c) Rated Breaking capacity (rms) : 630 A (min.)
- d) Fault making capacity (peak) : 21 kA (min.)
- e) No. of poles : 3
- f) **Operating mechanism**: 3 position, open-disconnected, closed and earthed, constructed in such a way that interlocking prevents unauthorized operations. The switch-disconnector and earthing switch shall be equipped with two separate operating entry points. With Arrangement for padlocking in each position.
- g) **SF6 Chamber**: With SF6 gas pressure guage indicator and filling arrangement.

##### 4.3 **Vacuum Circuit Breaker**

- a) Type : Fixed Type
- b) Rated Voltage : 6.6KV/11KV
- c) Rated Current : 630A
- d) Breaking current : 21kA .
- e) Making capacity : 50kA
- f) Short time rating : 21kA for 3 Sec.
- g) Impulse flashover withstand voltage : 50 kV peak (Min)
- h) Power frequency withstand voltage : 21 kV(rms) (min)
- i) No. of poles : 3
- j) **Operating mechanism**: Electrically operated ON-OFF. Manual Line disconnector with three position switches ON-OFF-EARTH
- k) Pad locking facility.

##### 4.4 **Busbars**

- a) Material : Aluminium
- b) Rated Current : 630 Amps
- c) Breaking Current for 3 sec. : 21 kA
- d) **Insulation of Busbars**: Heat shrinkable sleeve insulation of 6.6 KV/11 KV voltage grade should be provided on busbar, its risers & connections and shall be marked in different colour codes for identification of three

different phases(R, Y, B).

4.5 Load break switch (Isolator)

The LBS offered shall conform to IS/IEC as amended to date. The LBS shall be triple pole, spring assisted, hand operated, non-automatic type with quick break contacts. The operating handle shall have three positions 'ON', 'OFF' and 'EARTH' which shall be clearly marked with suitable arrangement to padlock in any position. A safety arrangement for locking shall be provided by which the isolator operation shall be prevented from 'ON' position to 'EARTH' position or vice versa.

4.6 Switchgear

4.6.1 The enclosure shall meet the "sealed pressure system" criteria in accordance with IS/IEC. It shall provide full insulation, making the switchgear insensitive to the environment. Thus assembled, the active parts of the switchgear unit shall be maintenance free.

4.6.2 The switchgear & switchboard shall be designed so that the position of different devices is visible to the operator on the front of the switchboard. The switchboard shall be designed so as to prevent access to all live parts during operation without the use of tools.

4.6.3 RMU should be tested for internal arc fault test as per the latest IS/IEC This test shall be performed in cable compartment as well as the stainless steel HV enclosure and the valid type test reports from CPRI/ equivalent test laboratories shall be submitted for technical evaluation.

4.6.4 The cable compartment cover must be interlocked with the switch position and the operator should get access only once the feeders is switched OFF & EARTHED.

4.7 Circuit Breaker:

The Unit shall consists of two (02) Nos of 630A Tee-off spring assisted, three pole Vacuum circuit breakers, with combined disconnecter for earthing. The function shall be naturally interlocked to prevent the main & earth switch from being switched 'ON' at the same time & the CB not allowed to trip in 'Earth On' position. The selection of the main/earth switch lever on the panel, which is allowed to move only if the main or earth switches in the off position. The lever shall be able to pad locked in either the main or earth position.

4.8 Protection Relay:

4.8.1 Numerical type, self powered OC/EF Protection relay with

	<p>suitable protection CTs for X-fer Rating of 200KVA and 500KVA with adjustable O/C and E/F Settings.</p> <p>4.8.2 The relay and CTs should be compatible with each other and the relay shall impose low burden on CTs.</p> <p>4.9 <u>Voltage Indicator Lamps (VPIS)</u> The RMU shall be equipped with a LED voltage indication lamps with sensor as per IS/IEC to indicate whether or not there is voltage on the cables.</p> <p>4.10 <u>Fault Passage Indicators</u> Load break switch functions shall be equipped with a fault passage indicator (FPI), in order to detect and localize easily the faulty part of the network.</p> <p>The FPI fault detection core function shall be self-powered without help of external power supply or built-in batteries.</p> <p>4.11 <u>Name Plate / Rating Label</u></p> <p>Ring main unit shall be provided with Aluminum /Stainless steel / Brass nameplate showing the following information marked in English:</p> <ul style="list-style-type: none"> <li>○ Manufacturer's Name</li> <li>○ Type/Model</li> <li>○ OIL's Purchase Order No. &amp; date</li> <li>○ Manufacturer's Serial Number</li> <li>○ Year of Manufacture</li> <li>○ Voltage Rating, kV</li> <li>○ Current Rating, Amps</li> <li>○ BIL, kV</li> <li>○ Short Circuit Rating / Duration, kA / Sec</li> <li>○ Rated Frequency, Hz</li> <li>○ Rated Making Current, kA</li> <li>○ Rated Breaking Current, kA</li> <li>○ Gross Weight, kg</li> </ul> <p>4.12 <u>Danger Plates</u> Danger plate shall be provided and installed at the front and Rear end of the ring main unit using in Tri-language (English, Hindi &amp; Assamese).</p> <p>5.0 <b><u>DOCUMENTS/ SUBMITTALS:</u></b></p> <p>5.1. <b><u>Bidder should provide detail dimensional drawing &amp; SLD for technical evaluation along with the offer without which the offer will be considered as non responsive &amp; rejected.</u></b></p> <p>5.2. Bidder shall obtain approval for the following drawings, documents. All electrical details shall be submitted within 45 days of placement of order. OIL shall require minimum 30 days' time</p>		
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	<p>for approval of drawings. The approval time may increase depending upon clarifications required from the supplier.</p> <p>i) GA drawing showing all details, including constructional detail and component layout of the prefabricated RMU and Relay details</p> <p>5.3. Four sets of the following documents shall be submitted with the supply-</p> <ul style="list-style-type: none"> <li>i) Approved GA drawing showing all details, including constructional detail and component layout for panels</li> <li>ii) Technical specification of all equipments</li> <li>iii) Bill of materials with catalogues of various components.</li> <li>iv) Type test certificates of individual components of the RMU i.e. Isolators, Breaker, Relay etc as per relevant IS/IEC.</li> <li>v) Guarantee Certificate</li> <li>vi) List of recommended spare parts with part no. for two year</li> </ul> <p>6.0 <b><u>TEST AND INSPECTION</u></b></p> <p>6.1 The RMU shall be inspected by OIL engineer at manufacturer's work prior to dispatch.</p> <p>6.2 All Acceptance/Routine tests as per IS/IEC shall be carried out on the RMU at the manufacturers works, including primary &amp; secondary injection tests of relays, which shall be witnessed by OIL engineer.</p> <p>6.3 The supplier shall give 15 days' advance intimation to OIL regarding inspection for deputing Engineer.</p> <p>7.0 <b><u>WARRANTY</u></b></p> <p>The equipment shall be of best quality and workmanship. The RMU with all electrical equipments shall be guaranteed for 12 (Twelve) months from the date of commissioning against defects arising due to material, workmanship or design.</p> <p><b>Make:</b> L&amp;T/SIEMENS/Schneider/ABB/Equivalent.  <b>Model:</b> Similar to Schneider 4-Way RMU : FBX-C/12-21/CT2CT2/INDOOR - C-Manual T2-Manual.</p>		
20	<p><b><u>TYPE TESTED LT PANEL: DESIGN, MANUFACTURE, TESTING AND SUPPLY OF 415V, 50 HZ, 800 A, TPN, 50 KA 1 sec , INDOOR TYPE, FLOOR STANDING, BOTTOM CABLE ENTRY, PCC PANELS WITH ACBs, MCCBs = 01 NOS..</u></b></p> <p>1.0 <b><u>TECHNICAL DATA</u></b></p> <p>a) Type: Type tested PCC Panel, Indoor, Cubicle type, self-supporting, extendable</p>	1 No.	

- b) Busbar: 800 A, 415 V AC, 50 Hz, 50 kA for 1 sec, high conductivity, high strength Aluminum E91 grade as per IS 5082, insulated with heat shrinkable PVC sleeves. Neutral busbar shall be of same size as phase bus.
- c) Busbar supports: Non-hygroscopic, non-deteriorating, and non-inflammable SMC/FRP supports.
- d) Design Temp: 50°C (Max)/ 5°C (Min) and Humidity-95% (Max).
- e) Incomer: 2 nos. 800 Amps, 4 Pole Air Circuit Breakers, Motorised spring charging
- f) Buscoupler: 1 nos. 800 Amps, 4 Pole Air Circuit Breakers, Motorised spring charging
- g) Degree of Protection: IP 42 as per IS: 61947 (Part-I).
- h) Panel construction: 2.0 mm thick CRCA sheet
- i) Outgoing: As per details below
- j) Cable entry: As per details below

**Note :**

- Type test certificate from reputed test house accredited by National Accreditation Board for testing and calibration Laboratories (NABL), India for Short time current withstand test (50 kA for 1 sec) and temperature rise test of the panel are to be submitted along with offer
- BIS ref.: Confirming to IS-8623, IS 13947

2.0

**PANEL CONSTRUCTION**

- Panel shall be indoor, cubicle type with provision of extension of panels in future.
- Panel shall be built on Self-supporting, floor mounting, rigid framework.
- The frame of the panel shall be sufficiently strong and made of 2.0 mm thick CRCA sheet having proper profile for rigidity and adequate strength with a validated and proved design. The frame shall be mounted on a bottom structure made from 75 x 40mm MS channel.
- Panel shall be sheet steel clad, cubicle type made of 2.0mm thick MS CR sheet.
- Bottom detachable gland plates made from 3.0mm thick MSCR sheet shall be provided for all cable entries
- The entire metal work shall be treated with nine tank antirust treatment as per IS and then powder coated in DA Grey color. Documentary evidence confirming the same shall be provided with the offer.
- Non-deteriorating Neoprene rubber gaskets shall be provided between all joints.
- All feeders shall be suitable for operation from front side and shall have provision of inspection from backside.
- All panel doors shall be provided with single turn latches for opening / closing.
- Internal barriers shall be provided between cubicles to provide Form-2 separation as per IEC to prevent transmission of flashover from one panel to other panels.
- Danger plate shall be provided and installed at the

front and Rear end of the ring main unit using in Tri-language (English, Hindi & Assamese).

- Adequate nos. of lifting lugs shall be provided on top.
- Ventilation louvers shall be guarded with wire mesh.
- Internal earthing shall be provided for all equipment having earthing terminal and panel doors with suitably rated, PVC insulated, flexible copper earth wires or copper braids of suitable rating as per IS.
- Earthing bus shall be provided at bottom of the panel. Earthing Bus shall be made of 50x5 mm GI straps with 80 micron galvanization thickness. Brought out studs shall be provided on two sides complete with suitably sized zinc passivized double nuts and spring washers. Earth bus shall have holes drilled for connection with main earth electrodes and earth cable/ strap of outgoing feeders. All feeders shall be adequately connected to the earth bus.
- The panel shall broadly have Incomer section, Bus Coupler section, Bus bar Chamber, Outgoing section, Cable chamber.
- Panel control wiring shall be done through minimum 1.5 sq mm, copper, multi stranded, single core, colour coded, FRLS ,ISI stamped cables. HRC fuses as required shall be provided for indication lamps, voltmeters control circuit etc.
- Legend 'LT POWER CONTROL CENTRE' shall be provided at the top center.

### 3.0 **BUS BAR & CHAMBER**

The bus chamber shall be sheet steel clad having front and rear bolted covers and shall consist of 1 set TP & N electrolytic grade, high conductivity Aluminum Bus Bars, conforming to BIS. Current rating of bus bar sections shall be 800 amps suitable for 415 V AC, 50 Hz system. Neutral bar shall be of same size as phase bus. The bus-bar shall be insulated with heat shrinkable PVC sleeves and shall be supported at required intervals with non-hygroscopic, non-deteriorating, and non-inflammable SMC / FRP supports having adequate mechanical strength and a high tracking resistance, to withstand short circuit fault levels up to 50 kA for 1 sec. All risers and connections from bus bar shall be done with same material as the main bus bars of current rating as per rating of individual cubicle switch. To suit the stringent site conditions, the bus bar system shall be designed with generous clearance between phases than specified in the standards. Adequate non-hygroscopic insulating sheet barriers between the bus chambers and feeders shall be provided.

The manufacturer of the panel must have test certificate and temperature rise certificate for busbar fault level of 50kA. A copy of the test certificate shall be enclosed with the offer.

### 4.0 **AIR CIRCUIT BREAKERS (Incomer & Bus Coupler)**

a. Breaker details

- i) Type : Indoor, horizontal isolation, horizontal draw out type.
- ii) Mounting : In cassette type enclosure
- iii) Insulation Medium : Air.
- iv) Rated operational voltage of circuit Breaker: 415 V
- v) Rated insulation voltage : 1000 V.
- vi) System earthing : Effectively earthed.
- vii) No of poles : Four.
- viii) Rated frequency : 50 Hz
- ix) Rated current : 800A
- x) Rated making current : 125 kA or higher
- xi) Rated short time withstand capacity: 50 kA for 1 sec at 415 V
- xii) Ultimate rated breaking capacity: 50 kA at 415 V
- xiii) Spring Charging : Motorized as well as manual.
- xiv) Method of closing : Through closing coil as well as Manual.
- xv) Control Supply : 230 V AC
- xvi) Closing coil voltage : 230 V AC
- xvii) Method of tripping:  
Shunt trip coil voltage :230 V AC  
Manual with mechanical trip button.
- xviii) Mechanical indication:
  - Breaker ON/OFF
  - Position SERVICE/TEST/ISOLATED

b. Protection Type

The air circuit breaker shall be equipped with Solid State based relay with Overload protection, Short circuit protection & Earth fault with adjustable current and time setting as a minimum.

c. General Requirements

- The circuit breaker shall conform to latest edition of IS 13947 except where specified otherwise in the specification.
  - The circuit breakers shall be with air as insulating medium and shall comprise of four independent poles. Each pole of a breaker shall constitute a separate breaking chamber. These four breaking chambers shall be mounted to a common chassis and connected together for operating by a common operating mechanism.
  - Main contact material shall be of copper alloy with silver facing and shall have ample contact area and contact pressure for carrying rated normal / short time currents and shall be adequate to keep temperature rise within limits.
  - Working parts of operating mechanism shall be of corrosion resisting materials. Bearings, which require grease, shall be equipped with pressure type grease fittings. Bearings, pins, bolts, nuts etc



shall be adequately pinned or locked to prevent loosening or changing adjustments with repeated operation of the breaker. The outside parts of the breakers and ferrous parts such as hangers, supports, bolts and nuts shall preferably be hot dip galvanized or zinc plated.

- The ACBs shall be supplied complete with enclosures as may be necessary. Short circuit performance test shall be conducted on the ACBs along with the enclosures.
- The enclosure shall not be liable to distortion and misalignment.
- The formed and welded steel construction shall be given corrosion resistant treatment following fabrication work. The enclosure / cubicle and doors shall be finished with stove enamel paint.
- The breakers shall have three distinct positions - SERVICE/ TEST/ ISOLATED, within the cubicle and this shall be achieved by suitable racking cam and slide rails system operated from the front of the equipment. Visual indicators shall be provided to show these three positions.
- A STOP shall be provided on the guide rails to prevent accidental falling of the breaker while withdrawing the moving portion.
- SAFETY SHUTTER ASSEMBLY shall be provided for shrouding of the main contacts when the breaker is withdrawn. This must operate automatically during insertion and withdrawal of the circuit breakers.

d. Operating Mechanism

- There shall be provision for manual as well as motorized spring charging. Closing shall be through 230 V AC closing coil. Provision for manually closing the breaker shall also be there. It shall be ensured for each breaker that it closes at the correct speed.
- A direct mechanical coupling shall give indication of ACB #ON# or #OFF#.
- A shunt release shall be provided for electrical tripping of the breaker.
- Supplier shall ensure correct wiring to facilitate tripping of the breaker.

e. Control Circuit

- Control wiring shall be done with 1.5 sq. mm PVC insulated and PVC sheathed FRLS Cables with copper conductor wires of 1100V grade. CT wiring shall be done with 2.5 Sqmm PVC insulated and PVC sheathed FRLS Cables with copper conductor wires of 1100V grade.
- Suitable lugs shall be used for termination and all wires shall be numbered with ferrules, as per drawings.

f. Interlocks

- The breaker cannot be closed in any intermediate position other than three distinct positions #SERVICE/TEST/ISOLATED.
- The front door / cover cannot be opened when the circuit breaker is in closed condition.
- The moving portion of the breaker shall be earthed before the main circuit breaker controls are plugged in the stationary contacts i.e. .before the control circuit is completed. Positive earthing of the circuit breaker shall be maintained in the connected position.
- Anti-pumping feature shall be provided for each breaker.

5.0 **OUT GOING SECTION/FEEDERS**

i) Feeders for Sub Station Panel#2

- a) 200 A 36 kA 4pole MCCB, with thermal magnetic type release and adjustable settings- 4 Nos
- b) 160 A 36 kA 4pole MCCB, with thermal magnetic type release and adjustable settings- 8 Nos.

1 no. Lighting DB with 63 A MCCB for substation lighting.

6.0 **INSTRUMENTS/INDICATIONS**

a) Incomer Panel (2 Nos)

- Analog Voltmeter with selector switch (range 0-500V) 1no. for each incomer.
- Analog Ammeter with selector switch (range 0-800A) 1no. for each incomer.
- LED type Indication Lamps for 'Phase Healthy' indication in Red, Yellow and Blue in color: 3 nos.
- Digital Energy meter

b) Feeder Panel

- Analog Ammeter with selector switch (For feeders more than 100 A).

7.0 **CABLE ENTRY**

a) Incomer Panel

- 1no. x 3½ C x 240 mm<sup>2</sup>, PVCA, Al cable

b) Feeder Panel

- 4 nos. 3½ C x 120 mm<sup>2</sup> PVCA Al cable
- 8 nos. 3½ C x 70 mm<sup>2</sup> PVCA Al cable

8.0

**DOCUMENTS/ SUBMITTALS:**

- a) Bidder should provide detail dimensional drawing & SLD for technical evaluation without which the offer will be considered non responsive and rejected.
- b) The supplier shall obtain approval for the following drawings, documents. All electrical details shall be submitted within 45 days of placement of order. OIL shall require minimum 30 days' time for approval of drawings. The approval time may increase depending upon clarifications required from the supplier.
  - GA drawing showing all details, including constructional detail and component layout of the Panel
  - Busbar detailed sizing calculation. The design shall be such that the temperature rise will be within limits as per IS/IEC.
- c) Four sets of the following documents shall be submitted with the supply.
  - Approved GA drawing showing all details, including constructional detail and component layout for panels
  - Approved Single line Power and Control Circuit diagrams
  - Technical specification of all equipment
  - Bill of materials with catalogues of various components.
  - Type test certificate from reputed test house accredited by National Accreditation Board for testing and calibration Laboratories (NABL), India for Short time current withstand test (50 kA for 1 sec) and temperature rise test of the panel.
  - Guarantee Certificate
  - List of recommended spare parts with part no. for two year

9.0

**TEST AND INSPECTION:**

- a) All routine tests shall be carried out as per relevant IS and IEC.
- b) The equipment shall be inspected by engineer(s) of OIL prior to dispatch. Prior intimation at least 15 days in advance to be given to OIL for inspection before dispatch. Routine tests in accordance with relevant IS shall be carried out at manufacture's works which shall be witnessed by OIL's engineer(s). The inspection shall include accuracy of dimensions & circuitry as per approved drawings, insulation tests, mechanical & electrical operation tests, primary current injection tests and any other test of the relays as recommended by the manufacturer. All necessary

	<p>arrangements for the tests shall be made by the supplier at their works during the inspection.</p> <p>c) Any alteration requirements pointed during the inspection shall be carried out by the manufacturer and confirmed before dispatch, without which dispatch clearance shall not be given.</p> <p>d) Copies of the test certificates along with bound copies of complete test results shall be submitted for approval of OIL prior to dispatch of the PCC. This shall include complete reports and results of the routine tests as also certified copies of the type tests.</p> <p>10.0 <b><u>WARRANTY</u></b></p> <p>The equipment shall be of best quality and workmanship. The Panel along with all electrical equipment shall be guaranteed for 12 (Twelve) months from the date of commissioning against defects arising due to material, workmanship or design.</p> <p><b><u>Make:</u></b> L&amp;T/SIEMENS/Schneider/ABB/Equivalent.</p>		
30	<p><b><u>SAME AS ITEM NO. 20 ABOVE EXCEPT</u></b></p> <p>5.0 <b><u>OUTGOING SECTIONS/FEEDERS:</u></b></p> <p>i) <u>Feeders for Sub Station Panel#3</u></p> <p>a) 200 A 36 kA 4pole MCCB, with thermal magnetic type release and adjustable settings- 6 Nos.</p> <p>b) 160 A 36 kA 4pole MCCB, with thermal magnetic type release and adjustable settings- 8 Nos.</p> <p>1 no. Lighting DB with 63 A MCCB for substation lighting.</p>	1 No.	
40	<p><b><u>SAME AS ITEM NO. 20 ABOVE EXCEPT</u></b></p> <p>5.0 <b><u>OUTGOING SECTIONS/FEEDERS:</u></b></p> <p>i) <u>Feeders for Sub Station Panel#4</u></p> <p>a) 200 A 36 kA 4pole MCCB, with thermal magnetic type release and adjustable settings- 4 Nos.</p> <p>b) 160 A 36 kA 4pole MCCB, with thermal magnetic type release and adjustable settings- 6 Nos.</p> <p>1 no. Lighting DB with 63 A MCCB for substation lighting.</p>	1 No.	
50	<p><b><u>INSTALLATION AND COMMISSIONING OF RMU</u></b></p> <p><b><u>Installation, Testing &amp; Commissioning of the above 3 nos of 6.6</u></b></p>	1 LS	

**KV/11 KV, SF6 4-Way Ring Main Unit**

- 1) Shall be carried out under direct supervision of Specialist engineer from RMU manufacturer.
- 2) Tools and tackle shall be provided by supplier for erection, testing and commissioning.
- 3) IR value of the panel shall be checked before energizing. Earth resistance value shall also be checked before energizing of prefabricated RMU.
- 4) Earthing: Earthing of the prefabricated RMU including installation of requisite number of earth electrodes and interconnection with 50mm×6mm GI Strip shall be in the scope of supplier. All the materials required for earthing shall be brought by the supplier. The electrode resistance to earth should be less than 5 ohm and grid resistance less than 1 ohm.

**INSTALLATION AND COMMISSIONING OF LT PANEL**

**Installation, Testing & Commissioning of the above 800A, 415 V, TPN, LT Panel - 3 Units**

- 1) Shall be carried out under direct supervision of Specialist engineer of panel manufacturer.
- 2) Tools and tackle shall be provided by supplier for erection, testing and commissioning.
- 3) IR value of the panel shall be checked before energizing. Earth resistance value shall also be checked before energizing.
- 4) Earthing: Earthing of the panel including connection to existing earthing grid shall be in Vendor's scope of work. Interconnection with 50mm×6mm GI Strip shall be in the scope of supplier. All the materials required for earthing shall be brought by the supplier. New earth pits are not required to be installed for body earthing.

However, 2 Nos transformer Neutral earthing (for each sub station) shall have to be installed by the vendor for connecting transformer neutral. The electrode resistance to earth should be less than 5 ohm and grid resistance less than 1 ohm

**SPECIAL NOTES ON RMU**

- a) The installation, testing & commissioning of 6.6 KV/11 KV compact, indoor type SF6 RMU shall be carried out under supervision of experienced supervisor certificate of competency for carrying out 6.6 KV/11 KV works valid for operating in Assam.

	<p>b) All electrical works shall be carried out by person having valid supervisor certificate of competency for operating in Assam.</p> <p>c) Services of specialist Engineer from manufacturer shall be required at site for commissioning of the RMU and testing of numerical relay.</p> <p><b>d) Supplier shall arrange for a minimum of 1 days On-site training by service engineer of RMU manufacturer.</b></p> <p>e) Scope of work shall include removal of old HT panels, disconnection of existing HT cables, removal of earthing connections from existing HT panels and shifting the existing panels to outside the substation building. Any minor civil work associated with erection and dismantling of panels are in bidder's scope.</p> <p>f) Existing cables shall be used for connecting to the new RMU panels. Necessary straight through jointing kit, other end termination materials as required for completing the work shall be in bidder's scope. Extra length of cable if required will be free issue by OIL. Cable excavation, sand filling etc. shall also be in Bidder's scope. Existing cables are 3.3 KV 120 sq mm PVCA cables.</p> <p>g) Apart from this bidders should supply, install and commission 3(three) nos. 6.6KV/11KV ISI stamped PVC straight through jointing kits required for jointing 'C' cable.</p> <p>h) OIL shall provide no more than 8 hrs shutdown/day for commissioning the HT panels during daytime period of 0900 Hrs to 1600 Hrs only.</p> <p><b><u>SPECIAL NOTES ON LT PANEL</u></b></p> <p>a) The installation, testing &amp; commissioning shall be carried out under supervision of experienced supervisor certificate of competency valid for operation in Assam.</p> <p>b) All electrical works shall be carried out by person having valid supervisor certificate of competency for operating in Assam.</p> <p><b>c) Supplier shall arrange for a minimum of 1 day On-site training by service engineer of ACB manufacturer.</b></p> <p>d) Scope of work shall include removal of old LT panels, disconnection of existing LT cables, removal of earthing connections from existing LT panels and shifting the existing panels to outside the substation building. Any minor civil works associated with erection and dismantling of the panels are in bidder's scope.</p> <p>e) Existing cables shall be used for connecting to the new LT panels. Necessary straight through jointing kit, other end termination materials as required for completing the work shall be in bidder's scope. Extra length of cable if required will be free issue by OIL. Cable excavation, sand filling etc shall</p>		
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	<p>also be in Bidder's scope. Existing cables are 3 ½ x 25 sq mm to 3 ½ x120 sq mm PVCA cables.</p> <p>f) OIL shall provide no more than 8 hrs shutdown/day for commissioning the LT panels during daytime period of 0900 Hrs to 1600 Hrs only.</p> <p>g) Vendor has to do temporary arrangement for LT power distribution during execution of jobs requiring prolong shutdown.</p>		
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**Tender No & Date: SGI2505P17 dated 19.09.2016**

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

<b><u>Criteria</u></b>	<b>Complied / Not Complied. (Remarks if any)</b>
<p><b>1.0 <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.</p> <p>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>(i) The Bidder shall be the manufacturer of 6.6 KV/11 KV RMU Panel/HT Switchgear or their authorised dealer.</p> <p>(ii) The bidder must quote for both (a) supply and (b) installation and commissioning for RMU as well as LT Panel.</p> <p>(iii) <u>In case the Bidder is an OEM</u> - The Bidder shall have experience of designed, manufacture and supply of at least 3(three) sets of 6.6 KV / 11 KV RMU/HT Switchgear to any Central Govt. / State Govt. / PSUs /Public Limited Companies in the last 5(five) years.</p> <p>(iv) <u>In case the Bidder is an Authorised Dealer</u> - The Bidder shall have experience of supply, installation &amp; commissioning of at least 2(two) sets of 6.6 KV / 11 KV RMU/HT Switchgear and 2(two) sets of 415V PCC Panel / PMCC Panel to any Central Govt. / State Govt. / PSUs /Public Limited Companies in the last 5(five) years.</p> <p>(v) Bidder shall submit documentary evidences such as purchase orders, completion certificate, authorization certificates from OEM and other necessary details &amp; documents along with offer for (i), (iii) &amp; (iv) above.</p> <p>(vi) <u>Size Conformity:</u></p> <p>Bidder should confirm that both the HT &amp; LT Panels supplied by them can be installed within the Sub-Stations of dimension as below, without breaking any door or wall.</p> <p>a) Size of Substation#2 is 6.3m X 7.5m with door size 1.5mX2.7m</p>	



- b) Size of Substation#3 is 6.3m X 7.0m with door size 1.5mX2.7m  
 c) Size of Substation#4 is 6.3m X 6.0m with door size 1.5mX2.7m

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

## **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. 36.93 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'.

### **Note:**

(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 90 days from the Bid Closing Date. Bids with lesser validity will be rejected.**

(ii) **Delivery & Installation/Commissioning:** Delivery shall be completed within **5 (five) months** from the date of issue of Purchase Order. Bidder quoting delivery period more than 5(five) months shall be rejected. However, bidder to quote their best delivery period.

Installation & commissioning of all the equipment shall be completed within **1(one) month** from the date of site hand over by OIL. Bidder quoting Installation &

commissioning period more than 1(one) month shall be rejected.

(iii) Bid security:

a) The bid must be accompanied by Bid Security of **Rs 1, 47, 700.00** 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. 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.

(iv) 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.

(v) 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.

(vi) 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.*

(vii) 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.

(viii) 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.

(ix) 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.

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

(xi) 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, Assam Entry Tax on purchase value will be loaded as per prevailing Govt. of Assam 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 DDD** 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.

<p><b>The name of the OIL's Independent External Monitors at present are as under:</b></p> <p>- SHRI SATYANANDA MISHRA, IAS(Retd.) Former Chief Information Commissioner of India &amp; Ex-Secretary, DOPT, Govt. of India e-Mail ID : <a href="mailto:satyanandamishra@hotmail.com">satyanandamishra@hotmail.com</a></p> <p>- SHRI RAJIV MATHUR, IPS (Retd.) Former Director, IB, Govt. of India, e-Mail ID : rajivmathur23@gmail.com</p> <p>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 &amp; Conditions of LCB Tender of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.</p>	
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**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	DESIGN, MANUFACTURE, TESTING AND SUPPLY OF 6.6 KV/11 KV, 630 A, 4-WAY, 2 VCB AND 2 LOAD BREAK SWITCH, COMPACT, INDOOR EXTENDABLE TYPE SF6 INSULATED RING MAIN UNIT.	NO.	3		
20	TYPE TESTED LT PANEL: DESIGN, MANUFACTURE, TESTING AND SUPPLY OF 415V, 50 HZ, 800 A, TPN, 50 KA 1 sec , INDOOR TYPE, FLOOR STANDING, BOTTOM CABLE ENTRY, PCC PANELS WITH ACBs, MCCBs = 01 NOS..	NO.	1		
30	SAME AS ITEM NO. 20 ABOVE	NO.	1		
40	SAME AS ITEM NO. 20 ABOVE	NO.	1		
50	INSTALLATION AND COMMISSIONING OF RMU & LT PANEL.	LS	1		

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

- (A) Total Material Value of Item nos. 10 to 40
- (B) Third Party Inspection (TPI) Charge , if applicable
- (C) Packing and Forwarding Charges
- (D) Total Ex-works value (A+B+C)
- (E) Excise Duty including Cess (*Please indicate applicable rate of Duty*)
- (F) Total Ex-works value including Excise Duty & Cess (D+E)
- (G) Sales Tax (*Please indicate applicable rate of Tax*)
- (H) Total FOR Despatching station value (F+G)
- (I) Road Transportation charges to Guwahati
- (J) Insurance Charges
- (K) Assam Entry tax
- (L) Total FOR Guwahati Value (H+I+J+K)
- (M) Pre-despatch inspection and Testing Charges, if any (*Lumpsum*)
- (N) Installation & Commissioning charges (Item no. 50) (*Lumpsum*)
- (O) Service Tax on Commissioning charges, if any (*Please indicate the rate of Tax*)
- (P) Training Charges, if any (*Lumpsum*)
- (Q) Service tax on Training charges, if any (*Please indicate the rate of Tax*)
- (R) Total Value, (L+M+N+O+P+Q) above
- (S) Total value in words :
- (T) Gross Weight :
- (U) Gross Volume :

**Note:**

- (i) Pre-despatch Inspection & testing charges, Commissioning charges and Training 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 and training personnel during their stay at the site.
- (ii) Bidders must categorically indicate the TPI charge, Pre-despatch Inspection and testing charges, Commissioning charges & Training charges in their offers and must confirm about providing the same in their Technical bids. In case TPI charge, Pre-despatch Inspection and testing charges, Commissioning charges and training charges are NIL/inclusive, bidder must categorically mention the same in their offer.
- (iii) Summary of the prices, as per the bid format (Summary) mentioned above, to be up-loaded as "Priced Bid" separately.
- (iv) Payment Terms: 70% payment will be made against supply of materials and balance 30% after satisfactory commissioning at site along with the installation & commissioning charges after adjusting liquidated damages, if any. Payment towards training will be released after successful completion of training

**TECHNICAL CHECKLIST FOR LT PANEL**  
**(To be filled up and submitted along with the bid)**

Sl. No.	Description	YES/NO	Ref. No. of offer page/Document
1	<b><u>LT Panel</u></b> a) PCC Panel, Indoor, Cubicle type, self-supporting & extendable b) Construction should be as per specification c) 800A 415V TPN Aluminium busbar d) 2 nos. 800A 4 pole ACB Incomer e) 1 no. 800A 4 Pole ACB buscoupler f) Degree of protection: IP42 g) Instruments/indicators as specified.		
2	<b><u>Busbar</u></b> a) 800A 415V TPN aluminium b) Neutral bus should be of same size as phase bus c) Short circuit fault level 50kA for 1sec.		
3	<b><u>Air Circuit Breaker</u></b> a) 415V Indoor, Horizontal, 4Pole b) Rated Current: 800A c) Rated Making Current: 125kA d) Rated short time withstand capacity: 50kA for 1 sec at 415V e) Breaking Capacity: 50kA f) Motorised & manual spring charging g) Tripping through shunt trip coil of 230V h) 3position(SERVICE/TEST/ISOLATED) i) SOLID State relay with Overload, short-circuit & earth fault protection with adjustable settings.		
4	<b><u>Air Circuit Breaker Interlocks</u></b> a) No intermediate position breaker closing b) Front Panel/cover can't open in beaker closed position c) Anti-Pumping feature d) Positive earthing should be maintained in connected position.		
5	<b><u>Outgoing Feeders:</u></b> a) 200A & 160A 36kA 4pole MCCB with thermal magnetic release and adjustable settings. Numbers as specified. b) 1 no. Lighting DB with 63 A MCCB for substation lighting c) Analog ammeters in each outgoing panel.		
6	Name Plate/Rating Label & Danger plate as per specification.		
7	All Routine/Acceptance test should be carried out as per IS/IEC. Pre-despatch factory Inspection of RMU		
8	12(twelve) month warranty from date of commissioning		
9	Approval of all drawings, documents prior to manufacture.		
10	<b><u>Installation and commissioning</u></b> a) As per specification b) Earth electrode & GI straps for earthing with installation as per specification.		
11	<b><u>Size Conformity (LT Panel)</u></b> Bidder should confirm that LT Panels supplied by them can be installed within the Sub-Stations of dimension as below, without breaking any door or wall. a) Size of Substation#2 is 6.3m X 7.5m with door size 1.5mX2.7m b) Size of Substation#3 is 6.3m X 7.0m with door size 1.5mX2.7m c) Size of Substation#4 is 6.3m X 6.0m with door size 1.5mX2.7m		

**TECHNICAL CHECKLIST FOR RMU PANEL**  
*(To be filled up and submitted along with the bid)*

Sl. No.	Description	YES/NO	Ref. No. of offer page/ Document
1	<b><u>RMU should be</u></b> i) 6.6kV/11kv Compact, Indoor, Extendible ii) 2 nos. VCB iii) 2 nos. load break switch iv) Voltage presence indicating system v) Fault Passage Indicator		
2	<b><u>RMU busbar</u></b> a) 630A 6.6kV/11kv Aluminium encapsulated in tanks full of SF6 gas		
3	<b><u>Vacuum Circuit Breaker(3 pole)</u></b> a) Rated voltage(6.6kV/11KV) b) Rated Current(630A) c) Breaking Current(21kA) d) Making Capacity(50kA) e) Short time rating(21kA for 3 sec) f) Impulse flashover withstand Voltage(50kV peak) g) Power freq withstand voltage(21kV rms) h) Electrically operated ON-OFF. Manual line disconnecter with ON-OFF-EARTH switch		
4	<b><u>Load Break Switch</u></b> a) Mounted inside SF6 filled sealed tank b) Gas tank should be IP67 c) Rated Breaking capacity(630A rms) d) Making Capacity(21kA peak) e) 3 position, open, closed & earthed f) Interlocking to prevent unauthorised operation g) Padlock facility in each position		
5	<b><u>VCB protection should be</u></b> a) Numerical relay suitable for transformer protection.(200 KVA & 500 KVA) b) Adjustable O/C & E/F protection		
6	Name Plate/Rating Label & Danger plate as per specification.		
7	All Routine/Acceptance test should be carried out s per IS/IEC. Pre-despatch factory Inspection of RMU		
8	12(twelve) month warranty from date of commissioning		
9	Approval of all drawings, documents prior to manufacture.		
10	<b><u>Installation and commissioning</u></b> a) As per specification b) Earth electrode & GI straps for earthing with installation as per specification.		
11	<b><u>Size Conformity (RMU Panel):</u></b> Bidder should confirm that RMU Panels supplied by them can be installed within the Sub-Station of dimension as below, without breaking any door or wall. a) Size of Substation#2 is 6.3m X 7.5m with door size 1.5mX2.7m b) Size of Substation#3 is 6.3m X 7.0m with door size 1.5mX2.7m c) Size of Substation#4 is 6.3m X 6.0m with door size 1.5mX2.7m		

**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 Confirmed	Indicate Corresponding page ref. of NIT
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. <i>(Conditional offer shall be liable for rejection.)</i>		

**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

**(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 incorrec 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.