



OIL INDIA LIMITED
(A Government of India Enterprises)
PO : Duliajan – 786602
Assam (India)

TELEPHONE NO: (91-374) 2808719

FAX NO: (91-374) 2800533

Email: ranjanbarman@oilindia.in ; erp_mm@oilindia.in

FORWARDING LETTER

Tender No. : SDI8153P19 DT: 29.05.2018

Tender Fee : Rs 1,000.00

Bid Security : Applicable

Bidding Type : SINGLE STAGE COMPOSITE BID SYSTEM

Period of sale of Bid Documents : From 30.05.2018 to 05.07.2018 (15:30 Hrs. IST)

Bid Closing date : 12.07.2018 (at 11:00 Hrs. IST)

Technical Bid Opening on : 12.07.2018 (at 14:00 Hrs. IST)

Tender Type : Open Tender

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

Performance Security : Applicable

Integrity Pact : Not Applicable

OIL invites Bids for **SUPPLY, INSTALLATION & COMMISSIONING OF PRE FABRICATED SUBSTATION – 01 NO** through its e-Procurement site under **SINGLE STAGE COMPOSITE BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/LOCAL/E-01/2005 for E-Procurement LCB 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.

The tender will be governed by:

- a) For technical support on various matters viz. Online registration of vendors, Resetting of Passwords, submission of online bids etc, vendors should contact OIL's ERP MM Deptt at following: Tel Nos = 0374-2807178 , 0374-2807171 , 0374-2807192 ,. Email id = erp_mm@oilindia.in.
- b) OIL's office timings are as below:

	Time (in IST)
Monday – Friday	07.00 AM to 11.00 AM; 12.30 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) OIL Bank Details :

	Bank Details of Beneficiary	
a	Bank Name	STAE BANK OF INDIA
b	Branch Name	Duliajan
c	Branch Address	Duliajan, Dist-Dibrugarh
d	Banker Account No.	10494832599
e	Type of Account	Current Account
f	IFSC Code	SBIN0002053
g	MICR Code	786002302
h	SWIFT Code	SBININBB479
i	Contact No.	9435554859
j	Contact Person Name	Mr. K.L.K.Banik, AGM
k	Fax No.	0374-2802729
l	Email Id	sbi.02053@sbi.co.in

- d) “General Terms & Conditions” for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.
- e) Technical specifications and Quantity as per **Annexure – 1A**.
- f) The prescribed Bid Forms for submission of bids are available in the Technical RFx-> External Area - > Tender Documents.
- 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).

- i) Bidder are advised to fill up the Technical bid check list ([Annexure EEE](#)) and Response sheet ([Annexure FFF](#)) given in MS excel format in Technical RFx -> External Area - > Tender Documents. The above filled up document to be uploaded in the **Technical Attachment**. For details please refer “Vendor User Manual” / “NEW INSTRUCTIONS”

Special Notes:

1.0 Vendors having OIL’s User ID & password to 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).

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.

NOTE:

In case of MSE/PSUs/ Govt. Bodies / eligible institutions etc., they shall apply to DGM-Materials, Oil India Limited, P.O. Duliajan, Assam-786602 for waiver of Tender Fee upto one week prior to the Bid closing date (or as amended in e-portal).

2.0 The tender is invited under SINGLE STAGE- COMPOSITE BID SYSTEM. The bidders are required to submit both the “TECHNO-COMMERCIAL UNPRICED BID” and “PRICED BID” through electronic format in the OIL’s e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.

2.1 Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the Technical RFx Response-> Technical Attachment only. **For details please refer “NEW INSTRUCTIONS”**. Please refer Annex-BB for price schedule.

3.0 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 **DGM- Materials, Materials Department, Oil India Limited, Duliajan - 786602, 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.

4.0 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.

“Purchase preference policy-linked with Local Content (PP - LC) notified vide letter no. O-27011/44/2015-ONG-II/FP dated 25.04.2017 of MoP&NG shall be applicable in this tender. The detail of the said policy is furnished vide “General Terms & Conditions for Indigenous Tender (MM/LOCAL/E-01/2005) of this tender.

Bidders seeking benefits, under Purchase Preference Policy (linked with Local Content) (PP-LC) shall have to comply with all the provisions specified in the above Addendum and shall have to submit all undertakings / documents applicable for this policy”.

- 5.0 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.
- 6.0 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.
- 7.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
- 8.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed **Annexure-CCC**. However, if any of the **Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (as per Annexure-CCC)** 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.**
- 9.0 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.
- 10.0 Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.
- 11.0 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.
- 12.0 Bidders are requested to refer to the enclosed **Annexure – BBB** for the Taxes and Duties clauses under GST regime.

13.0 Delivery/collection Instructions in cases where transportation is in OIL's scope:

- (i) the suppliers shall be required to deliver the Sundry consignments of weight less than 3 (Three) Tons at the godown/office/collection point of OIL's authorized transporter in various cities.

(ii) consignments weighing more than 3(Three) Tons shall be collected from the supplier's premises/loading points by OIL's authorized transporter.

(iii) the names of OIL's current authorized transporters are:

- a) M/s Western Carriers (India) Ltd.
- b) M/s DARCL Logistics Limited

Bidder's are requested to note the above delivery/collection instructions while submitting their offers.

14.0 While submitting the offers bidders are requested to refer to the enclosed **Annexure – BB (Price Bid Format and Evaluation Criteria).**

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



NOTE:

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

Yours Faithfully

Sd-

**(R BARMAN)
CMM (IP)
FOR GM-MATERIALS**

TENDER NO. SDI8153P19 DT: 29.05.2018**BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)**

The following BRC/BEC will govern the evaluation of the bids received against this tender. Bids that do not comply with stipulated BRC/BEC in full will be treated as non responsive and such bids shall prima-facie be rejected. Bid evaluation will be done only for those bids that pass through the “Bid Rejection Criteria” as stipulated in this document.

Other terms and conditions of the enquiry shall be as per General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BRC / BEC) contradict the Clauses of the tender or MM/LOCAL/E-01/2005 elsewhere, those in the BRC / BEC shall prevail.

<u>Criteria</u>	Complied / Not Complied. (Remarks if any)
<p>1.0 BID REJECTION CRITERIA (BRC):</p> <p>The bid shall conform generally to the specifications, terms and conditions given in this document. Notwithstanding the general conformity of the bids to the stipulated specifications, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected.</p> <p><u>A) TECHNICAL:</u></p> <p>1. BIDDER’S EXPERIENCE</p> <p>Bidder to have experience of successfully executing at least 1(one) similar order in preceding 05 (five) years as on Original Bid Closing date.</p> <p>“Similar works” means:</p> <p>Supply, Installation, Testing & Commissioning of at least <u>1 (one) similar single order</u> of either:</p> <p>a) HT Panel with VCB, 11 KV/415V (or higher) 500KVA (or higher) rated dry type transformer and 415V (or higher) PCC/PMCC/LT panels with ACB/MCCB OR</p> <p>b) HT panel and transformer of 11 KV/415V (or higher) 500KVA (or higher) rated dry type transformer OR</p> <p>c) 11kV/415V Pre-fabricated substation [with RMU, VCB, Dry type Transformer, LT panel (with ACB/MCCB)]</p> <p>to Central Govt/State Govt/PSUs/Public Limited companies.</p>	

Note: Documentary evidence in respect of the above should be submitted in the form of copies of relevant Purchase Orders along with copies of any of the documents in respect of satisfactory execution of each of those Purchase Orders, such as –

1. Satisfactory Inspection Report
(OR)
2. Satisfactory Supply Completion / Installation Report
(OR)
3. Consignee Received Delivery Challans
(OR)
4. Central Excise Gate Pass / Tax Invoices issued under relevant rules of Central Excise/VAT/GST
(OR)
5. Any other documentary evidence that can substantiate the satisfactory execution of each of the purchase orders cited above.

Note:

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

b) Satisfactory supply/completion/installation report (if submitted) should be issued on client's official letterhead with signature and stamp

B) FINANCIAL:

a) Annual Financial Turnover of the bidder during any of preceding 03 (three) financial / accounting years from the original bid closing date should be at least **Rs. 21.15 Lakhs**.

b) Net Worth of the firm should be Positive for preceding Financial / Accounting year (FY=2017-18).

Note -For (a) & (b): 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:-

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

OR

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

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

C) COMMERCIAL:

i) Validity of the bid shall be minimum 90 days from the Bid Closing Date.

ii) Bid security:

The bid must be accompanied by Bid Security of **Rs 84,600.00** in OIL's prescribed format as Bank Guarantee in favour of OIL. The Bid Security may be submitted manually in sealed envelope superscribed with Tender no. and Bid Closing date to Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam on or before the Bid Closing Date and Time mentioned in the Tender. **The Bank Guarantee towards Bid Security shall be valid for 6 months from Bid closing date. (i.e. upto 12.01.2019)**

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

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.

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.

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.

iii) Bids are invited under “Single Stage Two Bid System”. 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. 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. Any offer not complying with the above shall be rejected straightway.

iv) Performance Security:

The successful bidder shall submit Performance Security @ 10% of PO 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.

The Performance Security shall be in any one of the following forms :

A Bank Guarantee in the prescribed OIL's format valid for 3(three) months beyond the Warranty period indicated in the Purchase Order /contract agreement.

The Performance Security for capital nature items like plant and machinery etc. shall be valid for 12 months from the date of commissioning plus 3(three) months or 18 months from the date of shipment/despatch plus 3(three) months whichever concludes earlier. However, for consumables like chemicals under rate contract, the Performance Security shall be valid for the entire period of Rate Contract plus 03(Three) months.

The validity requirement of Performance Security is assuming despatch within stipulated delivery period and confirmation to all terms and conditions of order. In case of any delay in despatch or non-confirmation to all terms and conditions of order, validity of the Performance Security is to be extended suitably as advised by OIL.

v) 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.

vi) 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.

vii) 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 with Organisation's Name" digital certificate, will be rejected.

viii) Technical RFx Response folder is meant for Technical bid only. Therefore, No price should be given in Technical RFx Response folder, otherwise the offer will be rejected.

ix) Price should be maintained in the "online price schedule" only. The price submitted other than the "online price schedule" shall not be considered.

x). 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 submitted 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. If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.

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.**

XII. DELIVERY.

The bidder shall confirm that the supply of USS shall be completed within 10 months after issue of purchase order and approval of Drawing.

Installation and commissioning shall be completed within 2 months after getting the site clearance form OIL .

NOTE: FOR CLAUSE NOS. C(ii) & C(iv) OF BID SECURITY/EMD AND PBG

The bidders/successful bidders are requested to advise the Bank Guarantee issuing bank to comply with the following and ensure to submit, the receipt of the copy of SFMS message as sent by the issuing bank branch, along with the original bank guarantee in Oil's tender issuing office:

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

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

The above message/intimation shall be sent through SFMS by the BG issuing bank branch to Axis Bank, Duliajan Branch, IFS Code - UTIB0001129, Branch Address - AXIS Bank Ltd, Duliajan Branch, Daily Bazar, Jyotinagar, Duliajan, District - Dibrugarh, PIN- 786602

2.0 BID EVALUATION CRITERIA (BEC)

The bids conforming to the terms and conditions stipulated in the tender and

<p>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.</p> <p>A) TECHNICAL:</p> <p>1. The manufactured product should be strictly as per OIL's tender specification.</p> <p>B) COMMERCIAL:</p> <p>i) Priced bids of only those bidders will be opened whose offers are found technically acceptable. The technically acceptable bidders will be informed before opening of the "priced bid".</p> <p>ii) A job executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC.</p> <p>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.</p>	
---	--

NOTE:

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

-----XXXX-----

TECHNICAL SPECIFICATIONS WITH QUANTITY

TENDER NO. SDI8153P19 DT: 29.05.2018

	Complied / Not Complied. (Remarks if any)
<p><u>ITEM NO. 10</u></p> <p><u>SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 11 kV/415V PREFABRICATED SUBSTATION FOR DISASTER RECOVERY SITE OF IT DEPARTMENT- Qty = 01 NO</u></p> <p>11kV/415V, 500KVA Outdoor Type, Pre-Fabricated Substation - Technical Specifications</p> <p>1.0. SCOPE:</p> <p>This specification covers supply, installation, testing and commissioning at site of outdoor type prefabricated substation. The prefabricated substation combines 11kV/415V, 500 KVA dry type transformer, 11 kV RMU and LV distribution panel in a single transportable unit ready for operation on being fixed in position on prepared concrete foundation and connected to the power system. The substation to be supplied against this specification is required for vital installations where continuity of service is very important. The design, materials and manufacture of the equipment shall, therefore, be of the highest order to ensure continuous and trouble-free service over the years.</p> <p>2.0 STANDARDS:</p> <p>The latest revision of the following Codes and Standards shall be applicable for the Equipment /materials covered in this specification:</p> <p>IS: 11171 Specification of Dry type Power Transformer IS: 8623 Low Voltage Distribution Panel IS: 8828 Low Voltage Circuit Breakers IS: 7098 11kV XLPE Insulated Power Cables IS/IEC 60947 Low-voltage switchgear and control gear IS/IEC 62271-200 High voltage switchgear and controlgear - AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV IEC-TR 61641 Technical Report (TR) - Enclosed LV switchgear and controlgear assemblies - Guide for testing under conditions of arcing due to internal fault. IS/IEC 62271-201 High voltage switchgear and controlgear - AC insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to & including 52 kV IEC 62271-202 (old IEC 61330) High-voltage switchgear and controlgear - Part 202: High-voltage/ low-voltage prefabricated substation IEC 60529 Classification of degree of protection provided by enclosures IS 14786 High Voltage/ Low voltage Pre-fabricated substation</p> <p>3.0 AMBIENT CONDITIONS</p> <p>The following are the ambient conditions normally expected at site:</p>	

- (i) Maximum ambient air temperature: 50°C
- (ii) Max. daily average ambient temp: 45°C
- (iii) Minimum ambient temperature : 5°C

4.0 DESIGN AND CONSTRUCTION REQUIREMENT

- (i) The pre-fabricated substation shall be Factory assembled, Factory Tested & Transported as one Unit without any onsite assembly of equipment.
- (ii) Prefabricated substation shall be designed so that normal service, inspection maintenance can be carried out safely.
- (iii) RMU should be tested for internal arc fault test as per the latest IEC 62271-200 for 20KA/0.1 sec. This test shall be performed in cable compartment as well as the stainless steel HV enclosure and the valid type test reports shall be submitted for technical evaluation.

4.1 Earthing

- i) The Substation shall be solidly earthed.
- ii) All non-current carrying metallic part of the USS shall be connected to earth.
- iii) Separate earthing for neutral and surge arrestor of the transformer.
- iv) Internal earthing scheme of the Pre-fabricated Substation shall be done by the manufacturer.
- v) External connection from Pre-fabricated Substation to earthing grid shall be carried out by OIL and shall be outside vendor's scope of work.

4.2 Nameplate

Prefabricated substation shall be provided, with a durable and clearly legible nameplate which shall contain at least the following information:

- o Manufacturer's name or trademark;
- o Type designation;
- o Serial number;
- o Number of IS/IEC standards;
- o Year of manufacture.
- o OIL's Order No.& Date(to be provided by Oil India, after PO)

4.3 Degree of protection

i) Degree of protection

Since the Prefabricated shall be installed and operated outdoors, the minimum degree of protection of the enclosures shall be IP53 / IP 23 for transformer.

ii) Protection of the prefabricated substation against mechanical stress

The enclosure of a prefabricated substation shall have sufficient mechanical strength and shall withstand loads and impacts.

4.4 General Requirement:

- i) The layout of the three main components shall be in-line, with the transformer compartment located between the HT and LT compartments.
- ii) Interconnection between RMU and Transformer HT shall be done by 3x1Cx120 sqmm 11kV, Al XLPE cable and Transformer secondary and LT panel by copper busbar (with heat shrinkable PVC sleeves)

iii) The enclosure shall be made of CRCA/GI sheet of adequate thickness. In case of CRCA, the surface shall be treated and Powder coated.

iv) The doors shall open outwards at an angle of at least 90 degree and be equipped with a device able to maintain them in an open position. The top cover shall be slightly inclined so that there is no accumulation of water during rainy season or otherwise. Proper padlocking facility shall be provided for doors of each compartment.

Doors shall be provided on LT, HT and preferably on both side of the transformer compartment for easy access.

v) Cooling of the prefabricated substation shall be by natural ventilation.

vi) Adequate space should be provided for keeping of accessories inside the substation.

vii) The width of an operation aisle inside a prefabricated substation should be adequate for performing any operation or maintenance. Doors of switchgear and control gear inside the prefabricated substation shall either close in the direction of the exit or rotate such that they shall not reduce the width of the aisle.

viii) Danger plates shall be fitted on all sides of the Pre-fabricated Substation and Legend plates of the feeders shall be provided in the front of each feeder.

ix) Lifting hooks shall be provided for lifting of the prefabricated substation.

x) Size of the prefabricated substation shall not exceed the following approximate dimensions:

Length - 4.5 m

Breadth - 2.5 m

Height - 2.5 m.

xi) Both outgoing and incoming cables of pre-fabricated substation shall have bottom entry.

xii) Space heater with isolating switch and thermostat shall be provided on LT side of the cubicle.

xiii) Emergency push button to trip VCB shall be provided.

xiv) There shall be arrangement for internal lighting of HV, Transformer and LV compartment separately.

5.0 COMPONENTS OF OUTDOOR TYPE PREFABRICATED SUBSTATION:

5.1 Ring Main Unit (3 way):

The Ring Main Unit shall consist of 2 Nos. load break isolators and 1 No. Vacuum Circuit Breaker for a nominal voltage of 12kV using SF6 gas as insulating medium and Vacuum as arc quenching medium.

i) Load Break Switch (Isolators)

a) Type: Load breaking and fault making

b) Rated Current : 630 Amps

c) Rated Breaking capacity (kA rms): 20 kA (min.)

d) Fault making capacity (kA peak): 50 kA (min.)

- e) No. of poles : 3
 - f) Operating mechanism: Operating handle with ON/OFF. Earth positions with arrangement for padlocking in each position. Also independent manual operation with mechanically operated indicator.
 - g) SF6 Chamber: With SF6 gas pressure gauge indicator and filling arrangement for prevention of moisture inside the unit.
- ii) Vacuum Circuit Breaker with metering.
- a) Type: Fixed Type.
 - b) Rated Voltage : 12kV
 - c) Rated Current : 630A
 - d) Breaking current: 20kA for 3 Seconds.
 - e) Making current : 50kA
 - f) Short time rating: 20kA for 3 Sec.
 - g) Impulse flashover withstand voltage: 75kV peak
 - h) Power frequency withstand voltage : 28kV (rms)
 - i) No. of poles: 3
 - j) Operating mechanism: Closing and tripping:
 - i. Manually: Spring charging, closing and tripping
 - ii. Electrically: Motorized Spring charging, closing and shunt tripping.
 - k) Auxiliary contacts: 6 NO + 6NC
 - l) Operation counter: minimum 4 digits.
 - m) High mechanical endurance: 2000 operations.
 - n) Following indications to be provided:
 - Mechanical ON/OFF indication.
 - Spring FREE/ CHARGED indication.
 - o) Manual ON and TRIP button.
 - p) Shunt trip coil, closing coil: 24V DC rated.
 - q) VCB shall be equipped with over current, short circuit & earth fault protection.
- iii) Adequate metering should be provided in HT system. Anti-pumping auxiliary relay should be provided to prevent the closing of breaker in fault condition.
- iv) Auxiliary power: Suitable DC voltage shall be used as an auxiliary power supply for tripping & closing of VCB. Necessary 24V DC source (Power Pack/Battery bank & Charger Combination) shall be provided for the Pre-fabricated Substation controls.
- v) Busbars
- a) Material: Copper
 - b) Rated Current: 630 Amps
 - c) Insulation of busbars: Exposed portions of busbar, its risers & connections should be covered by Heat shrinkable sleeve insulation of 11kV voltage grade.
- 5.2 Transformer Compartment:
- 500 kVA, 11kV/415 Volts, 3 Phase, 50 Hz, Dry type, natural air cooled transformer for indoor installation complying to IS: 11171 with latest amendments.
- Brief technical data:
- i) Rating: 500 KVA
 - ii) Frequency: 50 Hz
 - iii) No. of Phases: 3
 - iv) Rated Voltage

HT: 11000 Volts
 LT: 415 Volts
 v) Winding Connection
 HT: Delta
 LT: Star
 vi) Vector Group: Dyn11
 vii) Class of Insulation: H
 viii) Maximum ambient air temperature: 50°C
 ix) Max.daily average ambient temp: 40°C
 x) Minimum ambient air temperature: - 5°C (As per IS 11171)
 xi) Allowable Max.temp.rise of windings: 115°C
 xii) %Impedance voltage: 4.5 %.
 xiii) Other Service Condition: As Per IS-11171
 xiv) Type of Cooling: AN
 xv) Terminal arrangement
 HT: 3 x 1C x 120 sqmm, 11KV XLPE, Aluminium cable
 LT: Insulated Copper Bus bars connecting transformer LT to LT PCC.
 xvi) System earthing: Solidly grounded system neutral
 xvii) System Fault Level: 20KA for 1 sec. at 11kV
 xviii) Insulation Withstand Voltage
 a. Impulse: 75KV(Peak)
 b. Power Frequency(HT): 28KV(RMS)
 c. Power Frequency(LT) : 3KV(RMS)
 xix) Temperature sensor & winding temperature indicators (WTI):
 a) Temperature sensors: Two (2) numbers, PT100 RTD shall be provided in each phase at suitable place for measuring hot spot temperature of the winding.
 b) A winding temperature indicator shall be provided to display the temperature of the windings.

5.3 LT Compartment:

The panel shall broadly have the following compartments / sections.

- i) Incomer section
- ii) Bus chamber
- iii) Outgoing section
- iv) Cable chamber / cable alley

A) INCOMER SECTION:

1 No. 1000Amps, 50kA, 415 Volt EDO Four Pole Air Circuit Breaker housed in a sheet steel enclosure with O/C, S/C & E/F protection with microprocessor based release (LSIg Protection). The ACB shall be electrically and manually operated. Spring charging shall be motorized with 230 VAC as well as manual.

SPECIFICATIONS OF AIR CIRCUIT BREAKERS:

The air circuit breaker shall comply with the following specifications:

- 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: 1000 A for incomers
- x) Rated making current: 105 kA
- 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) Closing coil voltage: 230 V AC
- xvi) Method of tripping:
 - a) Shunt trip coil voltage: 230 V AC
 - b) Manual with mechanical open button.
- xvii) Auxiliary Switch: 4NO+4NC
- xviii) Mechanical indication: Breaker ON/OFF

Incoming Feeder Instruments:

Incoming feeder shall comprise the following measuring instruments in an instrument panel complete with all necessary interconnections with 2.5 sqmm FRLS stranded copper wiring.

1. Three phase digital Multifunction Energy meter SIF-96, with maximum, minimum and average value for voltage, current, power values, Max Demand, KWH, frequency, power factor and THD;
2. LED type Indication Lamps for 'Phase Healthy' indication in Red, Yellow and Blue in colour, Qty: 3 nos.

B) BUS CHAMBER

Bus bar shall be rectangular in cross section and made from electrolytic grade, tinned copper. Current rating of bus bar sections shall be 1250 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.

C) OUT GOING SECTION

MCCB ratings and quantity in the outgoing section:

- a) 400 Amps, 36 kA - 2 Nos.
- b) 250 Amps, 25 kA - 2 Nos.
- c) 160 Amps, 25 kA - 2 Nos
- d) 63 Amps, 25 kA - 2 Nos

Specification for MCCB:

Four pole MCCBs with adjustable O/L, SC and EF protection through inbuilt electronic trip unit in MCCB with individual indication for earth fault, short circuit and overload.

Outgoing feeders Instruments:

Each outgoing feeder shall comprise the following measuring instruments in an instrument panel complete with all necessary interconnections with 2.5 sq mm FRLS stranded copper wiring.

1. Three phase digital ammeter (with inbuilt selector switch) of required range, SIF-96.

2. LED type Indication Lamps for 'Feeder ON' indication in Red and 'Feeder OFF' indication in Green colour & yellow for 'Feeder Trip'.

Qty: 3 nos.per outgoing feeder

Note: ACB & MCCB shall be of same make only.

D) CABLE CHAMBER / CABLE ALLEY

Suitable cable chamber/cable alleys shall be provided in between sections of the panel with brought out terminals. Supports as required shall be provided along the cable alleys for supporting the cables / wires.

6.0 DOCUMENTS:

1. The following documents shall be submitted with the offer:

i) GA drawing of the prefabricated substation showing dimensional details.

ii) Type test certificate of the prefabricated substation from reputed test house accredited NABL, India/STL.

iii) Internal Arc Fault test reports (20 kA for 0.1 sec) for the RMU

iv) Deviation of offer from tender specifications with justification and backup documents from principal wherever required. All deviations shall be subject to acceptance by OIL in writing.

2. The successful bidder shall obtain approval for the following drawings, documents, before construction.

i) GA drawing showing all details, including constructional detail and component layout of the prefabricated substation.

ii) Bill of materials with Make of the various components.

3. Four sets of the following documents shall be submitted with the supply

i) Approved GA drawing showing all details, including constructional detail and component layout of the pre- fabricated substation.

ii) Technical specification and O&M manuals of all equipment

iii) Operating & Maintenance manuals of the pre-fabricated substation

iv) Bill of materials with catalogues of various components.

v) Guarantee Certificate issued to OIL.

vi) List of spare parts with manufacturer's part no. and unit prices; quantity recommended for two years of normal operation.

4. Two sets of the following documents (hardcopy in spiral binding) and one soft copy on flash drive shall be submitted at the time of commissioning

i) As built drawing showing all details, including constructional details and component layout of the pre- fabricated substation.

ii) Instruction manual of pre-fabricated substation

iii) Operating & Maintenance manuals of the pre-fabricated substation.

- iv) Factory Acceptance Test
- v) Trouble shooting manuals
- vi) Final relay and configuration setting
- vii) Guarantee Certificate issued to OIL.

7.0 INSTALLATION AND COMMISSIONING:

- i) Commissioning is an integral part of this order. The supplier shall have to commission the Prefabricated substation at site, in Assam, India.
- ii) Party shall depute commissioning team and commission the prefabricated substation within thirty days after getting the commissioning call from Oil India.
- iii) Commissioning shall be considered as complete with the acceptance of commissioning report by Oil India, and closure of any outstanding issues detected during commissioning.

8.0 SPECIAL NOTES:

Bidder shall confirm in the bid that

- i) The installation, testing & commissioning of prefabricated 11KV outdoor type pre-fabricated substation will be carried out under supervision of personnel having certificate of competency for carrying out 11kV works.
- ii) Manufacturer of pre-fabricated 11KV outdoor type substation shall have the testing facilities to carry out the routine tests of the prefabricated substation in their manufacturing works.
- iii) The components used in the design of the pre-fabricated substation are sourced from its listed sub-vendors and that proper quality checks have been followed.
- iv) Pre-fabricated substation shall be complete in all aspect without the requirement of any external power supply for controls.

9.0 SPARE PARTS:

Party shall supply the following materials along with supply of prefabricated substation

- iv) 11 KV HRC fuse for PT: 6 Nos.
- v) Closing Coil for ACB: 2 Nos.
- vi) Tripping Coil for ACB: 2 Nos.
- vii) 400A MCCB: 1 No.
- viii) 250A MCCB: 1 No.
- ix) 160A MCCB: 1 No.
- x) 63A MCCB: 1 No

The cost of above materials shall be included in the supply of prefabricated substation

10.0 TEST AND INSPECTION:

- i) The prefabricated substation shall be inspected by OIL engineer at manufacturer's premises prior to dispatch.
- ii) Bidder shall have adequate facilities in his works / premises, for testing the Pre-fabricated / Unitised Substations of the capacity offered in the bid. These facilities shall be utilised during pre-dispatch inspections by Oil India.

<p>iii) Routine tests on the individual components and on the assembled substation including primary & secondary injection tests of relays in accordance with relevant IS shall be carried out at the manufacturer's works which shall be witnessed by OIL engineer.</p> <p>iv) The supplier will give 15 days' advance intimation to enable depute OIL representative for witnessing the acceptance and routine tests.</p> <p>v) Pre-commissioning tests and commissioning tests shall have to be carried out at site by the supplier during commissioning of the pre-fabricated substation.</p> <p>11.0 WARRANTY:</p> <p>The goods/ equipment shall be of best quality and workmanship. The equipment shall be guaranteed for 12 (Twelve) months from the date of commissioning against defects arising due to material, workmanship or design. Relay will also be included in this guarantee.</p>	
<p><u>ITEM NO. 20</u></p> <p><u>INSTALLATION AND COMMISSIONING OF ITEM NO. 10 AT DULIAJAN – QTY = 01 AU</u></p>	

NOTE:

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

Annexure-I: Acceptable Make of Equipment / devices

A. 415V AC equipment	
Digital Multifunction Meter	Schneider; HPL; Siemens; Rishabh, Secure, L&T
Digital Ammeter	Schneider electric; HPL; L&T; Siemens; IndoAsian
Current Transformer	Kappa; Precise Electrical; Pragati Electrical; Siemens; L&T; Schneider electric; IndoAsian
LED	Binay; Tecnic; L&T; Siemens
HRC Fuses	GE; Siemens; L&T; Schneider; Cooper Bussman; Indoasian
Air Circuit Breaker	Schneider Electric (Merlin Gerin), Siemens India-; GE India, ABB, Legrand, L&T
MCCB	Schneider Electric (Merlin Gerin): ABB; Siemens; Legrand; GE; L&T; Indoasian;
Auxiliary contactor	Siemens; ABB; Schneider electric; Indoasian, L&T
B. 11KV, AC HT equipment	
Ring Main Unit	Siemens; ABB; Schneider; Crompton Greaves
Heat shrinkable Busbar sleeve insulation	Raychem RPG(11KV voltage grade)
3 Phase Digital Voltmeter and Ammeter	AEI; Conzerv,
HT Current transformer	Kappa; Precise Electricals; Intrans Electro Components PvtLtd; Pragati Electricals; Same as the make of the VCB
Voltage transformer	Kappa; Precise Electricals; Intrans Electro Components PvtLtd; Pragati Electricals; Same as the make of the VCB
11KV, Vacuum circuit breaker	Siemens; ABB; Schneider; Crompton greaves
11KV Interrupter	Siemens; ABB; Schneider; Crompton greaves
Dry type Transformer	Siemens; Voltamp; ABB; Raychem RPG; PETE-Hammond

NOTE:

- Bidders may offer equivalent makes, provided they enclose technical literature demonstrating equivalence with makes stated above.*
- In case the equivalent make is part of standard specification for the Unitised S/S, bidder should mention the same, in which case, no additional justification is required.*

ANNEXURE II

Technical Evaluation Sheet for Pre-Fabricated Substation

Sl. No.	Clause no. of Technical Specification	Description (Refer to PR for detailed description)	Bidders Remarks Complied/ Not Complied/ Deviation	Bidder to indicate Relevant Page No. /Document No. Of their Bid to support the Remarks/ Compliance
Item Description				
1.	Clause 1.0	Scope		
2.	Clause 2.0	Standards		
3.	Clause 3.0	Ambient Condition		
4.	Clause 4.0	Design And Construction Requirement		
	Clause 4.1	Earthing		
	Clause 4.2	Nameplate		
	Clause 4.3	Degree of protection		
	Clause 4.4	General Requirement		
5.	Clause 5.0	Components Of Outdoor Type Prefabricated Substation		
	Clause 5.1	Ring Main Unit (3 Ways)		
	Clause 5.2	Transformer Compartment		
	Clause 5.3	Lt Compartment		
6.	Clause 6.0	Documents		
7.	Clause 7.0	Installation And Commissioning		
8.	Clause 8.0	Special Notes		
9.	Clause 9.0	Spare Parts		
10.	Clause 10.0	Test And Inspection		
11.	Clause 11.0	Warranty		

Technical Bid Checklist**Annexure-EEE**

Tender No.			
Bidder's Name :			
BEC / TENDER REQUIREMENTS		Compliance by Bidder	
SL. NO.		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 of successfully executing one Purchase order as stipulated in NIT in any of the preceding 5 financial years (*)		
6	Confirm that you have submitted Balance Sheet and Profit and Loss Account of any of the preceding 3 financial years certified by a chartered accountant.		
7	Confirm that the bid has been signed using Class 3 digital certificate with Organisation's Name as per NIT.		
8	Confirm that you have not taken any exception/deviations to the NIT .		

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 execution of the purchase order cited above.

Response Sheet**Annexure-FFF**

Tender No.
Bidders Name

Bidders Response Sheet

SI No.	Description	Remarks
1	Place of Despatch	
2	Whether Freight charges have been included in your quoted prices	
3	Whether 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 Bid security submitted as Bank Guarantee, Name and Full Address of Issuing Bank including Telephone, Fax Nos and Email id of branch manager	

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 - GGG

**(TO BE FILLED UP BY ALL THE VENDOR IN THEIR OWN LETTER 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.