

OIL INDIA LIMITED
 (A Government of India Enterprise)
 P.O. Duliajan-786602, Assam, India
 E-mail: material@oilindia.in

INVITATION FOR BID. LOCAL COMPETITIVE BID

OIL INDIA LIMITED invites Local Competitive Bid (LCB) through its e-procurement portal <https://etender.srm.oilindia.in/irj/portal> for the following items:

E-Tender No	Bid Closing/Opening Date	Item Description
SDI7813P16 dated 13.07.2015	20.08.2015	Supply, Installation & Commissioning of Electrical Panel.

Tender fee (Non-refundable): Rs 1,000.00; Bid Closing/Opening Time: **(11 Hrs.) IST/(14 Hrs.) 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.

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 : 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. : SDI7813P16 dtd. 13.07.2015

Tender Fee : Rs 1,000.00

Bid Security Amount : Rs 8,540.00

Bidding Type : SINGLE STAGE COMPOSITE BID SYSTEM

Bid Closing on : As mentioned in the e-portal.

Bid Opening on : -do-

Performance Security : Applicable

Integrity Pact : Not Applicable

OIL invites Bids for **Supply, Installation & Commissioning of Electrical Panel** 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) “General Terms & Conditions” for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders.
- b) Technical specifications and Quantity as per **Annexure – 1A**.
- c) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.
- d) In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date, shall not be permitted to revise their quotation.
- e) All corrigenda, addenda, amendments, time extension, clarifications etc. To the tender will be hoisted on OIL’s website (www.oil-india.com) and in the e-portal (<https://etenders.srm.oilindia.in/irj/portal>) only and no separate notification shall be issued

in the press. Prospective bidders are requested to regularly visit the website and e-portal to keep themselves updated.

- f) 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).
- g) 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 RFX** Response.

Special Note:

1.0 General Qualification Criteria:

In addition to the general BRC/BEC, following criteria on Bidders' Experience and their financial capabilities shall be considered (**Documentary evidence to be provided along with the bid in Technical RFx -> External Area -> Tender Documents**) as on the Bid Closing Date:

Criteria	Complied / Not Complied.
	Documentary evidence submitted / not submitted
a) Bidder should have experience of successfully executing (single) similar order of Rs 2.56 Lakhs during last 3 years.	
b) Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than Rs 8.54 Lakhs.	

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 – (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 each of the purchase orders cited above. For Annual financial turnover enclose the audited Annual Reports or balance sheet certified by a chartered accountant.

2.0 Application showing full address/email address with Tender Fee (Non-refundable) of Rs. 1,000.00 in favour of M/s Oil India Limited and payable at Duliajan is to be sent to Head-Materials, Oil India Limited, P.O. Duliajan, Assam-786602. Application shall be accepted only upto one week prior to 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.

NOTE:

a) Tender Fee may also be paid online upto one week prior to the bid closing date (or as amended in e-portal).

b) PSUs and SSI units are provided tender documents Free of Cost (as per govt guidelines), however they have to apply to OIL's designated office to issue the tender documents before the last date of sale of tender document mentioned in the tender.

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 **Head 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 triplicate.

4.0 Benefits to Micro & Small Enterprises (MSEs) as per prevailing Govt guidelines as applicable on B.C date shall be given. MSEs who are interested in availing the benefits will upload with their offer proof of their being MSE registered for the item tendered. The MSE are also required to upload scanned copies of relevant documents indicating details of registration alongwith validity, name of the registering organization and details of the item, ownership etc., failing which, their offer may not be liable for consideration of benefits to MSEs.

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 (LCB 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.

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)

SR MANAGER MATERIALS (IP)

FOR HEAD-MATERIALS

Tender No & Date: SDI7813P16 dtd. 13.07.2015**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 LCB 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>A) TECHNICAL: The bid shall conform generally to the 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>B) COMMERCIAL:</p> <p>i). Validity of the bid shall be minimum 120 days from the Bid Closing Date.</p> <p>ii). Bid security: The bid must be accompanied by Bid Security of Rs 8,540.00 in OIL's prescribed format as Bank Guarantee or a Bank Draft/Cashier cheque 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 10 months from Bid closing date. (i.e. upto <u>20.06.2016</u>).</p> <p>Bid Security may also be paid online on or before the Bid Closing Date and Time mentioned in the Tender.</p> <p><u>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.</u></p>	

For exemption for submission of Bid Security, please refer Clause No. 8.8 of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement LCB 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.

In case of extension of Bid Closing date against the tender where a bidder has already submitted his bid with requisite bid security validity within the original B.C. Date, such bidders will extend validity of bid security covering the extended period of the bid closing date.

iii). Performance Security:

The successful Bidder will have to provide Performance Security @ 10% of order value. The Performance Security must be valid for one year from the date of successful commissioning of the equipment or 18 months from the date of despatch whichever is earlier.

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.

For exemption for submission of Performance Security, please refer Clause No. 9.12 of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders.

- iv).** *The Bank Guarantee should be allowed to be encashed at all branches within India.*
- 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.

<p>viii). Price should be maintained in the “online price schedule” only. The price submitted other than the “online price schedule” shall not be considered.</p> <p>2.0 <u>BID EVALUATION CRITERIA (BEC)</u></p> <p>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.</p> <p>COMMERCIAL:</p> <p>i). 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.</p> <p>ii). 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>	
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NOTE:

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

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TECHNICAL SPECIFICATIONS WITH QUANTITY

Tender No & Date: SDI7813P16 dtd. 13.07.2015

	Complied / Not Complied. (Remarks if any)
<p>Item No. 10 ELECTRICAL PANEL (QTY.- 01No.)</p> <p>Item Description:</p> <p>1.0. FEATURES : The 3 phase polycarbonate panel shall have following features - (a)The board/panel shall be made out of modular POLYCARBONATE THERMOPLASTIC ENCLOSURES. The enclosure shall be environment friendly, recyclable, UV resistant, halogen & silicon free, anti acid& anti corrosive. (b)Power switchgear and control gear assembly in accordance with IEC 61439 Part 1 and Part 2. (c)Standard male bus bar system shall be EMC-compliant with N/PEN conductor in the area of phase conductors and with the same current carrying capacity as the phase conductors. (d)For better safety the Polycarbonate enclosure shall be fire retardant & self-extinguishing in accordance with IEC 60 695-2-1, DIN VDE 0304 Part 3,UL Subject 94 for Flammability V-2. It should be tested at Glow Wire test for 960 deg. Cent. (e)The impact strength of polycarbonate enclosures / boards i.e. the Degree of Protection against mechanical load IK 08(5 Joule) in accordance with IEC 62262. (f)The lid closing and opening shall be done by quick fastening spring mechanism latches. (g)Compactness of the boards is main criteria due to space constraints. The board / panel should be made compact meeting the technical requirements in accordance with relevant standards and also keeping adequate space for technicians to work. For MCB section the distance between centres of two consecutive DIN Channels in a row shall not be more than 140 mm. The MCB/ RCCB switching operations / accessing the MCB dolly should be preferably by opening of a window flap. (h)Adequate nos. of lifting lugs shall be provided on top of panel. (i)All standards should be as mentioned or equivalent to IS, wherever applicable. (j)Internal Earthings shall be provided for all equipment having Earthings Terminals and panel doors with suitably rated, PVC insulated, flexible copper earth wires or copper braids of suitable rating as per IS. (k)Earthing BUS shall be provided at bottom of the panel. Earthing bus shall be made of 50 x 5 mm GI straps with 80 micron galvanisation thickness.Brought out studs shall be provided on two sides complete with suitably sized zinc passivated 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. (l)The maximum size of the panel board shall not be more than 2490 mm (L) X 525/750 mm (B) x 2400 mm (H) (m)Panel shall be designed for Ambient of 5°C (Min) 45°C(Max) and Humidity 95% (Max) with no dew condensation. (n)Danger plates shall be fitted in front and back side of the panel. (o)Ventilation louvers shall be guarded with wire mesh.</p>	

(p) Legend 'LT POWER CONTROL CENTRE' shall be provided at the top center

2.0. Technical features of Polycarbonate panel :

- (i) Materials: Thermoplastic Polycarbonate (PC)
- (ii) Gasket: Internally embedded made of Polyurethane
- (iii) Degree of Protection: IP65 (Dust & jet Water Proof)
- (iv) Fire Protection in the event of internal faults: Minimum requirements: Glow wire test in accordance with IEC 60 695-2-11- UL Subject 94 -650 Deg C for boxes & cable glands 850 Deg C for conducting components.
- (v) Burning behaviour: Glow wire test in accordance with IEC60695-2-11-960 Deg C- UL Subject 94 - V2 flame retardant & self-extinguishing.
- (vi) Degree of protection against mechanical load: IK 08 (5 Joule)
- (vii) Toxic behaviour: Halogen, Silicon free, conform to RoHS directive 2002/95/EC
- (viii) Temperature resistant: - 40 Deg C to +120 Deg C
- (ix) Chemical resistant: Acid, Alkali, Petrol, Mineral Oil & partially resistant from Benzene
- (x) Rated Insulated Voltage : AC/DC 690V
- (xi) Cable entries : Shall have option for cable plate
- (xii) Protection Class: Class II, totally insulated
- (xiii) Type test certificate: Should hold type test certificate with switchgear assemblies (TTA), according to IEC 60 439-1 (IS 8623), AND CPRI
- (xiv) Mounting Type: Floor mounting.

3.0. STANDARDS :

- (a) CPRI test report of degree of ingress protection IP 65 in accordance with IEC 60529.
- (b) Type Test Report of a board made out of Polycarbonate thermoplastic panel in accordance with IEC 60439-1.
- (c) Power switchgear and control gear assembly in accordance with IEC 61439 Part 1 and Part 2.
- (d) Polycarbonate enclosure shall be fire retardant & self-extinguishing in accordance with IEC 60 695-2-1, DIN VDE 0304 Part 3, UL Subject 94 for Flammability V-2.
- (e) The impact strength of polycarbonate enclosures / boards i.e. the Degree of Protection against mechanical load IK 08(5 Joule) in accordance with IEC 62262.

4.0. PANEL COMPARTMENTS / SECTIONS :

The panel shall have the following compartments / sections –

- (A) Incomer Section
- (B) Metering
- (B) BUS Chamber & BUS Bars
- (C) Outgoing Sections
- (D) Cable chamber / Entry

(A) INCOMER SECTION :

2 nos. of 400 A Four Pole Change Over Switch as specified below

- i) Legend: CHANGE OVER SWITCH # 1
- ii) Legend: CHANGE OVER SWITCH # 2

The incomer units shall be complete with brought out terminals of suitable rating and single compression cable gland suitable for 3 nos. x 3½ C x 240 mm², PVCA, Al cable provided on the bottom detachable gland plate. Suitably rated tinned copper lugs for all incoming cable connections shall be supplied with the brought out terminals.

LED type Indication Lamps for 'Phase Healthy' indication in Red, Yellow and Blue in colour.

Change Over Switch Specification –

- a) No. of poles : 4
- b) Standard : IEC 60947-3
- c) Rated operational Voltage : 415 volt
- d) Rated Frequency : 50 Hz
- e) Rated Impulse withstand voltage : 12 KV
- f) Pollution Degree : 3
- g) Conventional free air thermal current, I_{th} at 40°C = 400 Amp
- h) Conventional enclosed thermal current, I_{the} at 40°C = 400 Amp
- i) Rated operational current I AC-21A / AC-22A / AC-23A : 400 Amp
- j) Rated operational Power for AC-23A : 225 KW
- k) Rated Breaking Capacity for AC 23 A : 3200 Amp
- l) Rated making Capacity for AC-23A : 4000 Amp
- m) Short time withstand, For 1 sec : 22 KA (rms), For 0.2 sec: 35 KA(rms)
- n) Short circuit making capacity : 46 KA (peak)
- o) Al.cable entry size with lug : 2 x 300 sq.mm (Maximum)
- p) Link width : 50 mm Maximum
- q) Link thickness : 8 mm Maximum

(B) METERING:

- i) 1 No., three phase digital Multifunction Energy meter with maximum, minimum and average value for voltage, current, power values, KWH and frequency.
- ii) Voltage Range: 0 – 500 V, Current Range: 0 – 1000 A, SIF-96, class of accuracy 1.0 (as per IEC-62052-11 & IEC-62053-21), CT Operated with 400/5 CTs (3 Nos. CT - 5 VA, 0.6 KV, Class I & Ratio: 400/5)
- iii) Model: EM 6400 Series (Conzerv Pvt. Ltd.)/DIRIS A40(HPL-SOCOMECH/SENTRON PAC 3200 (Siemens)
- iv) Required LED Indicating Lamp for R / Y / B Phase: 2 Nos./Each
- v) Control Fuse with Base (2A/32A) : 9 Nos.
- vi) Auxiliary power supply of digital multifunction energy meter shall be 230V and shall be connected with separate HRC fuse and link system.

(C) BUS CHAMBER & BUS:

- (i) The BUS Chamber shall be Polycarbonate and shall consist of 1 set TP & N electrolytic grade, high conductivity tinned Copper Bus Bars, conforming to BIS. Current rating of bus bar sections shall be 400 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 15-22 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.
- (ii) BUS bar Rated Current: 400 Amp
(Ph: 20x10, N : 12x10, PE : 12x5 MM, Copper)
- (iii) Rated Voltage: 415 V AC
- (iv) Rated short-Time withstand current (I_{cw}) = 22 kA for 1 Sec
- (v) Bus bar system – Polarity: 5

(vi) Centreline Spacing of BusBars: 60 mm
supports to be equipped :450 mm

(vii) Distance between BUS bar

(viii) Degree of Protection against Mechanical load: IK 08 (5 Joule)

(D) OUT GOING SECTION:

Requirement of materials in outgoing feeders as follows –

(i) 320 Amp FP 36 KA MCCB: 2 Nos.

(ii) 200 Amp FP 36 KA MCCB : 1 No.

(iii) 100 Amp DP 10 KA MCB : 1 No.

a) In “R” Phase Feeders –

100 Amp DP 10 KA MCB: 1 No.

10 Amp DP 10 KA MCB: 5 Nos.

20 Amp DP 10 KA MCB: 7 Nos.

25 Amp DP 30mA RCCB: 12 Nos.

5/15 Amp 3 Pin Domestic Socket: 2 Nos.

b) In “Y” Phase Feeders –

100 Amp DP 10 KA MCB: 1 No.

10 Amp DP 10 KA MCB: 5 Nos.

20 Amp DP 10 KA MCB: 7 Nos.

25 Amp DP 30mA RCCB: 12 Nos.

5/15 Amp 3 Pin Domestic Socket: 2 Nos.

c) In “B” Phase Feeders –

100 Amp DP 10 KA MCB: 1 No.

10 Amp DP 10 KA MCB: 5 Nos.

20 Amp DP 10 KA MCB: 7 Nos.

25 Amp DP 30mA RCCB: 12 Nos.

N.B.: Required specifications for MCCBs, MCBs, RCCBs described in Section 5.0.

(E) CABLE CHAMBER / ENTRY :

i) Terminal Details –

50 sq.mm Terminal Block: 2 Nos.

4 sq.mm Terminal Block: 65 Nos.

Lighting Pole Terminals: 6 Nos.

ii) Minimum size of cable entry in -

400 Amp INCOMER Feeders: 3.5 x 185 Sq.mm

320 Amp Outgoing Feeders: 3.5 x 150 Sq.mm

200 Amp Outgoing Feeders: 3.5 x 120 Sq.mm

100 Amp Outgoing Feeders: 2C x 35 Sq.mm

10 & 20 Amp Outgoing Feeders: 2C x 2.5 Sq.mm

5.0. GENERAL SPECIFICATION OF MCCBs, MCBs and RCCBs –

(a) RESIDUAL CURRENT CIRCUIT BREAKER (RCCB):

i) Required To open a circuit automatically in the event of a current leakage between phases and Earth, and or neutral and Earth.

ii) RCCB shall Conform to IEC 61008

iii) Voltage Rating : 230 V AC with double Pole

iv) Type : AC

- v) Rating In : 25 Amp
- vi) Sensitivity : 30 mA
- vii) Shall have Earth Fault Tripping Indication & Positive contact indication.
- viii) Working Temperature : 40°C
- ix) Protection : IP2X
- x) Tropicalization : T2
- xi) Required Connection 25 sq.mm for rigid and 16 sq.mm for flexible.

(b) MCCB :

- i) Current Rating : 200 Amp and 320 Amp
- ii) Type : N
- iii) Pole : 4
- iv) Impulse withstand voltage : 8 KV
- v) Rated Operational Voltage : 415 Volt
- vi) Rated insulation Voltage: 750 Volt
- vii) Operating Frequency: 50 Hz
- viii) Icu as per IEC 60947-2 : 50 kA
- ix) Total Opening Time: < 10 mSec
- x) Ambient Temperature: 55°C
- xi) Mounting Positions: Vertical and 90° in both directions.
- xii) Shunt Release : 415 V AC
- xiii) Under-voltage Release: 240 V AC
- xiv) Required Rotary Operating Mechanism
- xv) Required Electrically Operating Mechanism
- xvi) Earth Fault Release: Available with external GF module with TM release

(c) MCB :

- (i) Required of protection & control of circuits against overloads and short circuits.
- (ii) Type : C tripping Characteristics.
- (iii) Conforms to IS 8828 – 1996
- (iv) Rated Current Rating : 100 A, 20 A and 10 A
- (v) Voltage Rating : 230 V AC with Double Pole for all MCBs
- (vi) Breaking Capacity : 10 kA as per IEC 60898
- (vii) Energy limiting Class : 3
- (viii) Protection : IP20
- (ix) Tropicalisation : T2

6.0. GENERAL NOTES ON PANEL:

- a) All main riser connections shall be done by suitably rated Copper Links to avoid any bimetallic action, which leads to temperature rise. In case of cables, terminations at both ends shall be done through suitably rated tinned copper lugs.
- b) Brought out terminals of suitable rating (as per rating of the feeder) shall be provided for all cable terminations of incoming / outgoing feeder units.
- c) Suitably rated tinned copper crimping lugs for each conductor of all outgoing cable connections shall be supplied with the brought out terminals.
- d) All cable entries shall be from bottom. Suitable cable entry arrangement with detachable gland plates shall be provided. Adequate nos. of single compression heavy duty nickel plated brass cable glands suitable for correspondingly rated PVCA, 4C, Al cable shall be provided on the bottom detachable gland plate. Adequate nos. of glands shall also be provided for circuits to be fed from DBs.

- e) Sufficient space shall be provided for cable termination, dressing and connecting cable leads to the brought out terminals.
- f) 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. All power and Control wires shall have ferrule numbers. All joints in control & CT wiring shall be done with suitable TBs. All cables / wires shall have ferrule numbers for proper identification as per drawing. All terminations shall be done through lugs.
- g) Legend plates for the indication lamps, meters, control switches / buttons and labels for the terminals shall be provided.
- h) The board should be properly packed to avoid ingress of rain water/moisture and damage during the transit.
- i) Specific type and make of all equipment shall be clearly mentioned. All the information required as per tender specifications must be submitted.

7.0. DOCUMENTS :

(A) The supplier shall obtain approval for the following drawing and documents. All Electrical details shall be submitted to OIL within 15 days from the date of receipt of order.

- a) GA drawing showing all details including constructional detail and component layout of panels.
- b) Single line Power Circuit diagrams.
- c) Technical Specification of all equipment.
- d) Bill of materials of various components.
- e) Type test certificate from reputed house.

(B) Four sets of the following documents shall be submitted with the supply

- a) Approved GA drawing showing all details, including constructional detail and component layout of panels.
- b) Approved single line Power circuit diagrams.
- c) Technical Specification of all equipments.
- d) Bill of materials of various components.
- e) Type test certificates from reputed test house.
- f) Guarantee Certificate.

8.0. TEST AND INSPECTION :

- (i) All routine test shall be carried out as per relevant IEC or equivalent IS.
- (ii) All routine test / checks shall be done in presence of OIL's Engineer at the premises of the manufacturer before dispatch. The party shall inform to OIL at least 15 days in advance for the testing & inspection of the same.
The inspection shall include accuracy of dimensions & circuitry as per approved drawings, insulation tests, mechanical & electrical operation tests by the manufacturer. All necessary arrangements for the tests shall be made by the supplier at their works during the inspection.
- (iii) Any alternation requirements pointed out during the inspection shall be carried out by the manufacturer and confirmed before dispatch, without which dispatch clearance shall not be given.
- (iv) Three (3) 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 panel. This shall include complete reports and results of the routine tests as also certified copies of the type tests.

<p>9.0. GUARANTEE : The supplier shall guarantee the equipment for a period of 18 months from the date of supply or 12 (Twelve) months from the date of successful installation & commissioning against defects arising from faulty design and materials. Guarantee certificate shall be duly signed and stamped by the supplier and shall be provided along with the dispatch documents.</p> <p>10.0. MAKES OF COMPONENTS :</p> <p>Item Make Change Over Switch : L & T / Indo-Asian / Havells / Schneider MCCB : L & T / Merlin gerin / Legrand / Siemens MCB : Hager / Legrand / SIE / MerliGerin RCCB : Hager / Legrand / SIE /Merlin Gerin Switch Socket : Anchor / Havells / Indo-Asian / Legrand Terminal blocks : ELMEX / CONNECT Multifunction Meter : EM 6400 Series (Conzerv Pvt. Ltd.) / DIRIS A40(HPL-SOCOMECS)/SENTRON PAC 3200 (Siemens) CTs.: Kappa / TRANSTECH / G & M Control Fuse with Base : Bassman / GE/ L & T LED indication : Hensel-Schlegel / Vinay / syska</p>	
<p>Item No. 20 Installation & Commissioning (Qty.- 1 AU)</p>	

NOTE: Special Terms & Conditions (Part of Technical Specification)

- (1) The bidder shall be panel manufacturer or authorized dealer of panel manufacturer. In case of authorized dealer, valid dealership/authorisation certificate must be submitted along with the bid.
- (2) Any damage to the panel during transportation from factory to the site will be to party's account and the party will have to carry out necessary repair or replacement to OIL's satisfaction at their own cost.
- (3) After delivery the panel will be checked for any defect/ discrepancies in presence of the OIL's engineer and rectification of the same will be done to OIL's satisfaction by the party at their own cost.
- (4) All routine test / checks shall be done in presence of OIL's Engineer at the premises of the manufacturer before dispatch. The party shall inform to OIL at least 15 days in advance for the testing & inspection of the same.
- (5) Party shall submit an undertaking with their offer confirming compliance to all point mentioned in NIT.
- (6) All works shall be carried out in complete with latest IS, CEA Regulation 2010 and National Electrical Code.
- (7) The party shall be responsible for safe custody and proper storage of materials till handing over to OIL.

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

SINGLE LINE DIAGRAM OF
PROPOSED THREE PHASE L.T. POLYCARBONATE PANEL
REQUIREMENT FOR "ZALONI CLUB", OIL INDIA LIMITED, DULAJAN

Technical Bid Checklist**Annexure-EEE**

Tender No.			
Bidder's Name :			
		Compliance by Bidder	
SL. NO.	BEC / TENDER REQUIREMENTS	Indicate 'Confirmed' / 'Not Confirmed' / Not applicable	Indicate Corresponding page ref. of unpriced bid or Comments
1	Bidder to confirm that he has not taken any exception/deviations to the bid document .		
2	Confirm that the product offered strictly conform to the technical specifications.		
3	Confirm that the Offer has been made with Bid Bond / Bank Guarantee / Earnest Money along with the offer (Wherever Applicable) ?		
4	Confirm unconditional validity of the bid for 120 days from the date of opening of techno-commercial bid.		
5	Confirm that the prices offered are firm and / or without any qualifications?		
6	Confirm that all relevant fields in the on-line bidding format been filled in by the bidders for the items quoted by them.		
7	Confirm that the price bid is in conformity with OIL's online bidding format ?		
8	Confirm that the Bid comply with all the terms & conditions ?		
9	Confirm that the offers and all attached documents are digitally signed using digital signatures issued by an acceptable Certifying Authority (CA) as per Indian IT Act 2000.		
10	CONFIRM THAT YOU HAVE SUBMITTED THE DULY SIGNED INTEGRITY PACT DOCUMENT (Wherever Applicable)		
11	CONFIRM THAT YOU HAVE SHALL SUBMIT PERFORMANCE BANK GUARANTEE AS PER NIT IN THE EVENT OF PLACEMENT OF ORDER ON YOU (Wherever Applicable)		
12	CONFIRM THAT YOU HAVE SUBMITTED DOCUMENTS AS PER GENERAL QUALIFICATION CRITERIA		
13	Confirm that you have submitted Name and Full Address of Issuing Bank including Telephone, Fax Nos and Email id of branch manager where Bid security has been submitted as Bank Guarantee.		

NOTE: Please fill up the greyed cells only.

Response Sheet**Annexure-FFF**

Tender No.	
Bidders Name	

Bidders Response Sheet

Sl No.	Description	Remarks
1	Name of Bidder	
2	Whether tender document purchased from OIL's offices.	
3	Place of Despatch	
4	Whether Freight charges have been included in your quoted prices	
5	Whether Insurance charges have been included in your quoted prices	
6	Make of quoted Product	
7	Offered Validity of Bid as per NIT	
8	Delivery Period in weeks from placement of order	
9	Complied to Standard Payment Terms of OIL or not.	
10	Bid Security Submitted (if applicable)	
11	Details of Bid Security Submitted to OIL (if applicable)	
	a) Bid Security Amount (In Rs):	
	b) Bid Security Valid upto:	
12	If Bid security submitted as Bank Guarantee, Name and Full Address of Issuing Bank including Telephone, Fax Nos and Email id of branch manager	
13	Bid Security if Not submitted reasons thereof	
14	Whether you shall submit Performance Security in the event of placement of order on you (if applicable)	
15	Integrity Pact Submitted (if applicable)	
16	Whether submitted documents in support of General Qualification criteria of NIT	
17	If bidder is Small scale unit whether you have quoted your own product	
18	If bidder is Small scale unit whether you are eligible for purchase preference (as per Govt guidelines)	
19	Whether filled up the bank details for online payment as per Annexure GGG	

NOTE: Please fill up the greyed cells only.

**(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.