

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliagan-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:

Tender No	Bid Closing/ Opening Date	Item & Qty
SDI0418P16 DT: 01.03.2015 (SINGLE STAGE TWO BID SYSTEM)	21.04.2016	PRE FABRICATED SUBSTATION – 01 NO
SDI0389P16 DT: 29.02.2016 (SINGLE STAGE TWO BID SYSTEM)	21.04.2016	30 KVA GENERATING SET-12NOS
SDI0241P16 DT: 12.02.2016 (SINGLE STAGE COMPOSITE BID SYSTEM)	21.04.2016	CABINET & DENTAL CHAIR
SDI0289P16 DT: 19.02.2016 (SINGLE STAGE COMPOSITE BID SYSTEM)	21.04.2016	05 NOS VEHICLE
SDI0467P16 DT: 04.03.2016 (SINGLE STAGE COMPOSITE BID SYSTEM)	28.04.2016	UTP CAT6 CABLE
SDI9994P16 DT: 22.01.2016 (SINGLE STAGE COMPOSITE BID SYSTEM)	28.04.2016	HOB CUTTER TOOLS
SDI0375P16 DT: 27.02.2016 (SINGLE STAGE COMPOSITE BID SYSTEM)	28.04.2016	ELECTRO SURGICAL UNIT
SDI0471P16 DT: 04.03.2016 (SINGLE STAGE TWO BID SYSTEM)	28.04.2016	NEUTRAL GROUNDING RESISTOR
SDI0470P16 DT: 04.03.2016 (SINGLE STAGE COMPOSITE BID SYSTEM)	28.04.2016	POLYCARBONATE 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. : SDI0470P16 Dt. 04.03.2016

Tender Fee : Rs 1,000.00

Bid Security Amount : Applicable.

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 of POLYCARBONATE PANEL & EXTN. BOARD** 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 = 0374-2807171 , 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) “General Terms & Conditions” for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders.

- d) Technical specifications and Quantity as per **Annexure – 1A**.
- e) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.
- f) 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.
- g) 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.
- 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 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.
a) Bidder should have experience of successfully executing single similar order of Rs 3.86 Lakhs during last 3 years from BC Date. Similar Order means supply of Electrical Panel/Feeder Pillar.	Documentary evidence submitted / not submitted
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 12.88 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 Vendors having OIL's User ID & password shall purchase bid documents 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 shall obtain User ID & password through online vendor registration system in e-portal and can subsequently purchase bid documents 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 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 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.

NOTE:

PSUs and MSE 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 one week prior to the Bid closing date (or as amended in e-portal).

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 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 General Terms and Conditions for E- PROCUREMENT LCB TENDERS (MM/LOCAL/E-01/2005) 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-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.
- 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-
(R. BARMAN)
SR. MANAGER MATERIALS (IP)
FOR HEAD-MATERIALS**

Tender No & Date: SDI0470P16 Dt. 04.03.2016**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>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>A) 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 13,000.00 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>28.02.2017</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> <p>For exemption for submission of Bid Security, please refer Clause No. 8.8 of</p>	

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.

iii) Performance Security:

a) 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.

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.

viii) Price should be maintained in the “online price schedule” only. The price submitted other than the “online price schedule” shall not be considered.

ix). 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) Average Annual Turnover of a bidder lower than the average 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.

A) TECHNICAL:

- i) The bids will be evaluated as per NIT specification.

B) COMMERCIAL:

- 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.
- 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.
- iii) Item no. 10 & 20 will be procured from the same source and evaluation will be done accordingly.

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: SDI0470P16 Dt. 04.03.2016

	Complied / Not Complied. (Remarks if any)
<p>ITEM NO. 10, 1 PH L.T. ELECT. PANEL, (QNTY. – 3 NOS.)</p> <p>Item Description:</p> <p>1.0. FEATURES :</p> <p>The Single phase polycarbonate panel shall have following features -</p> <p>(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.</p> <p>(b)Power switchgear and control gear assembly in accordance with IEC 61439 Part 1 and Part 2.</p> <p>(c)For better safety the Polycarbonate enclosure shall be fire retardant & self-extinguishing in accordance with IEC 60695-2-1, DIN VDE 0304 Part 3,UL Subject 94 for Flammability V-2.</p> <p>(d)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.</p> <p>(e)The lid closing and opening shall be done by quick fastening spring mechanism latches.</p> <p>(f)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.</p> <p>(g)Adequate nos. of lifting lugs shall be provided on top of panel.</p> <p>(h)All standards should be as mentioned or equivalent to IS, wherever applicable.</p> <p>(i)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.</p> <p>(j)Earthing BUS shall be provided at bottom of the panel. Earthing bus shall be made of 50 mm 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.</p> <p>(k)The maximum size of the panel board shall not be more than 950 x 1190 x 420/750 mm</p> <p>(l)Panel shall be designed for Ambient of 5°C (Min) 45°C (Max) and Humidity 95% (Max) with no dew condensation.</p> <p>(m)Danger plates shall be fitted in front and back side of the panel.</p> <p>(n)Ventilation louvers shall be guarded with wire mesh.</p> <p>2.0. Technical features of Polycarbonate panel :</p> <p>(i)Materials: Thermoplastic Polycarbonate (PC)</p>	

- (ii) Gasket: Internally embedded made of Polyurethane
- (iii) Degree of Protection: IP 54
- (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 IEC 60 695-2-11-960 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: Type test certificate shall be submitted along with panel according to IS 8623, with latest amendments, if any.
- (xiv) Installation / Mounting Type : Outdoor / Wheel Mounting

3.0. STANDARDS :

- (a) Test report of degree of ingress protection IP 54 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
- (C) Outgoing Sections
- (D) Cable chamber / Entry

(A) INCOMER SECTION :

1 (One) No. of 63 Amps, Double Pole Switch Fuse Unit

Specification of Fuse switch Unit -

- (a) No. of poles : 2
- (b) Standard : IS/IEC 60947-3
- (c) Rated operational Voltage : 230 volt
- (d) Rated Frequency : 50 Hz
- (e) Rated Impulse withstand voltage : Not less than 7.5 KV
- (f) Conventional enclosed thermal current, I_{the} at 40°C = 400 Amp
- (g) Rated operational current : 63 Amp
- (h) Rated Making Capacity : More than 600 A
- (i) Rated Breaking Capacity : More than 500 A

(B) METERING :

- (i) 1 No, Single phase digital Multifunction Energy meter with maximum, minimum and average value for voltage, current, power values, KWH and frequency.
- (ii) Required LED Indicating Lamp: 2 Nos.
- (iii) Auxiliary power supply of digital multifunction energy meter shall be 230 Volts and shall be connected with separate HRC fuse and link system.

(C) OUTGOING SECTION:

Requirement of materials in outgoing feeders as follows -

- (i) 63 Amp Double Pole 100 mA RCBO: 1 No.

(a) Outgoing Feeders -

- 10 Amps, Double Poles, Breaking Capacity 10 kA, MCB : 3 No.
- 20 Amps, Double Poles, Breaking Capacity 10 kA, MCB : 5 Nos.
- 20 Amps, Double Poles, Breaking Capacity 10 kA, RCCB : 8 Nos.
- 16/20 Amps 3 Pin IP 67 Industrial Plug & Socket : 8 Nos.

(D) TERMINALS :

- (i) Terminal Details -
- 16 sq.mm Terminal Block : 2 Nos.

5.0. GENERAL SPECIFICATION OF MCBs , RCCBs and INDUSTRIAL PLUG & SOCKET :

(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 Volts, AC with double Pole
- (iv) Type : AC
- (v) Rating In : 20 Amp
- (vi) Sensitivity: 30 mA for outgoing feeder and 100 mA for INCOMER.
- (vii) Shall have Earth Fault Tripping Indication & Positive contact indication.
- (viii) Working Temperature: 40°C
- (ix) Protection: IP 2X
- (x) Tropicalization : T2
- (xi) Required Connection 25 sq.mm for rigid and 16 sq.mm for flexible.

(b) 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 : 20 Amps and 10 Amps
- (v) Voltage Rating : 230 Volts, 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

(c) RESIDUAL CURRENT BREAKER WITH OVER LOAD (RCBO) :

- (i) Device providing over current protection & Earth leakage protection in a single unit.
- (ii) RCBO shall Conform to IEC 61009
- (iii) The device switches both phase & neutral conductors.

- (iv) Voltage Rating : 230 V AC with double Pole
- (v) Type : AC
- (vi) Rating In : 63 A for main incomer and 20 Amp for outgoing feeder.
- (vii) Sensitivity : 100 mA for main incomer
- (viii) Shall have Earth Fault Tripping Indication.
- (ix) Working Temperature: 40°C
- (x) Protection: IP20
- (xi) Tropicalization: T2
- (xii) Required Connection 25 sq.mm for rigid and 16 sq.mm for flexible.

(d) Industrial Switch & Socket :

- (i) Poles : Double Poles + 1 Earth
- (ii) Standard : IS / IEC 309
- (iii) Voltage : 250 Volts
- (iv) Current Rating : 16/20 Amps

6.0. GENERAL NOTES ON PANEL:

- (i) 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.
- (ii) Brought out terminals of suitable rating (as per rating of the feeder) shall be provided for all cable terminations of incoming / outgoing feeder units.
- (iii) Sufficient space shall be provided for cable termination, dressing and connecting cable leads to the brought out terminals.
- (iv) Legend plates for the indication lamps, meters, control switches / buttons and labels for the terminals shall be provided.
- (v) The board should be properly packed to avoid ingress of rain water/moisture and damage during the transit.
- (vi) 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 from the office of Head -Electrical for the following drawing and documents. All Electrical details shall be submitted to OIL within 15 days from the date of receipt of order.

- (i) GA drawing showing all details including constructional detail and component layout of panels.
- (ii) Single line Power Circuit diagrams.
- (iii) Technical Specification of all equipment.
- (iv) Bill of materials of various components.
- (v) Type test certificate from reputed house.

(B) Three 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 panels.
- (ii) Approved single line Power circuit diagrams.
- (iii) Technical Specification of all equipments.
- (iv) Bill of materials of various components.
- (v) Type test certificates from reputed test house.
- (vi) Guarantee Certificate.

8.0. TEST AND INSPECTION :

- (i) All routine tests 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, and 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.

9.0. GUARANTEE :

The supplier shall guarantee the equipment for a period of eighteen (18) months from the date of supply or twelve (12) 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.

10.0. MAKES OF COMPONENTS :

Switch Fuse Unit : L & T/ABB/Schneider/Legrand/Siemens

RCBO : L & T/ABB/Schneider/Legrand/Siemens/Hager

MCB : L & T/ABB/Schneider/Legrand/Siemens/Hager

RCCB : L & T/ABB/Schneider/Legrand/Siemens/Hager

Industrial Switch Socket : Hensel-Walther/Hager/Legrand

Terminal blocks : ELMEX / CONNECT

Multifunction Meter : EM 6400 Series (Conzerv Pvt. Ltd.)/DIRIS A40 (HPL-SOCOMECH / SENTRON PAC 3200 (Siemens)

Current Transformer : Kappa/TRANSTECH/G & M

Control Fuse with Base : Bassman/GE/L & T

LED indication : Hensel-Schlegel/Vinay/Syska

ITEM NO. 20, 3 PH L.T. ELECT PANEL, (QNTY. – 4 NOS.)

Item Description:

1.0. FEATURES :

The Three 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) 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.
- (d) 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.
- (e) The lid closing and opening shall be done by quick fastening spring mechanism latches.

(f) 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.

(g) Adequate nos. of lifting lugs shall be provided on top of panel.

(h) All standards should be as mentioned or equivalent to IS, wherever applicable.

(i) 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.

(j) 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.

(k) The maximum size of the panel board shall not be more than 1100 x 1790 x 420/750 mm

(l) Panel shall be designed for Ambient of 5°C (Min) 45°C (Max) and Humidity 95% (Max) with no dew condensation.

(m) Danger plates shall be fitted in front and back side of the panel.

(n) Ventilation louvers shall be guarded with wire mesh.

2.0. Technical features of Polycarbonate panel :

(i) Materials: Thermoplastic Polycarbonate (PC)

(ii) Gasket: Internally embedded made of Polyurethane

(iii) Degree of Protection: IP 54

(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 and 850 Deg C for conducting components.

(v) Burning behaviour: Glow wire test in accordance with IEC 60695-2-11-960 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 690 Volts

(xi) Cable entries: Shall have option for cable plate

(xii) Protection Class: Class II, totally insulated

(xiii) Type test certificate: Type test certificate shall be submitted along with panel according to IS 8623, with latest amendments, if any. I

(xiv) Installation / Mounting Type : Outdoor / Wheel Mounting

3.0. STANDARDS :

(a) Test report of degree of ingress protection IP 54 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
- (C)Outgoing Sections
- (D)Cable chamber / Entry

(A)INCOMER SECTION :

1(One)no. of 125 Amps, Three Phase Switch Fuse Unit

Specification of Fuse switch Unit -

- (a)No. of poles : Three poles with Neutral
- (b)Standard : IS/IEC 60947-3
- (c)Rated operational Voltage : 415 volts
- (d)Rated Frequency : 50 Hz
- (e)Rated Impulse withstand voltage : Not less than 7.5 KV
- (f)Conventional enclosed thermal current, I_{the} at 40°C = 125 Amp
- (g)Rated operational current : 125 Amps
- (h)Rated Making Capacity : Not Less than 1250 Amps
- (i)Rated Breaking Capacity : Not Less than 1000 Amps

(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) Required LED Indicating Lamp: 3Nos.
- (iii)Auxiliary power supply of digital multifunction energy meter shall be 230 Volts and shall be connected with separate HRC fuse and link system.

(C) OUT GOING SECTION :

Requirement of materials in outgoing feeders as follows -

(i)63 Amps, Double Pole, Sensitivity: 100 mA, RCBO : 3 Nos.

(a)In outgoing Feeders ("R","Y" and "B"phase):

For "RED"-Phase :

- 10 Amps, Double Pole, Breaking Capacity:10 kA, MCB : 2 Nos.
- 20 Amps, Double Pole, Breaking Capacity:10 kA, MCB: 4 Nos.
- 25 Amps, Double Pole, Breaking Capacity:10 kA, RCCB, Sensitivity-30 mA: 6 Nos.
- 16/20 Amps, 3 Pin, IP 67, Industrial Plug & Socket : 6 Nos.

For "YELLOW"-Phase :

- 10 Amps, Double Pole, Breaking Capacity:10 kA, MCB : 2 Nos.
- 20 Amps, Double Pole, Breaking Capacity:10 kA, MCB: 4 Nos.
- 25 Amps, Double Pole, Breaking Capacity:10 kA, RCCB, Sensitivity-30 mA: 6 Nos.
- 16/20 Amps, 3 Pin, IP 67, Industrial Plug & Socket : 6 Nos.

For "BLUE"-Phase :

- 10 Amps, Double Pole, Breaking Capacity:10 kA, MCB : 2 Nos.

20 Amps, Double Pole, Breaking Capacity:10 kA, MCB: 4 Nos.
25 Amps, Double Pole, Breaking Capacity:10 kA, RCCB , Sensitivity-30 mA: 6 Nos.
16/20 Amps, 3 Pin, IP 67, Industrial Plug & Socket : 6 Nos.

(D)TERMINALS/ CABLE SIZE :

(i)50 sq.mm Cable.

5.0. GENERAL SPECIFICATION OF MCBs, RCCBs , RCBOs & INDUSTRIAL PLUG & SOCKET :

(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 Amps
- (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)Miniature Circuit Breaker (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 : 20 A and 10 A
- (v)Voltage Rating : 230 Volts, 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

(c)RESIDUAL CURRENT BREAKER WITH OVER LOAD (RCBO) :

- (i)Device providing over current protection & Earth leakage protection in a single unit.
- (ii)RCBO shall Conform to IEC 61009
- (iii)The device switches both phase & neutral conductors.
- (iii)Voltage Rating : 230 V AC with double Pole
- (iv)Type : AC
- (v)Rating ,In :63 A for main incomer and 20 Amp for outgoing feeder.
- (vi)Sensitivity : 100 mA for main incomer
- (vii)Shall have Earth Fault Tripping Indication.
- (viii)Working Temperature: 40°C
- (ix)Protection: IP20
- (x)Tropicalization: T2
- (xi)Required Connection 25 sq.mm for rigid and 16 sq.mm for flexible.

(d)INDUSTRIAL SWITCH & SOCKET:

(i) Poles : Double Poles and one Earth

(ii) Standard : IS / IEC 309

(iii) Voltage : 250 Volts

(iv) Current Rating : 16/20 Amps

6.0. GENERAL NOTES ON PANEL :

(i) 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.

(ii) Brought out terminals of suitable rating (as per rating of the feeder) shall be provided for all cable terminations of incoming / outgoing feeder units.

(iii) Sufficient space shall be provided for cable termination, dressing and connecting cable leads to the brought out terminals.

(iv) Legend plates for the indication lamps, meters, control switches / buttons and labels for the terminals shall be provided.

(v) The board should be properly packed to avoid ingress of rain water/moisture and damage during the transit.

(vi) 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 from the office of Head -Electrical for the following drawing and documents. All Electrical details shall be submitted to OIL within 15 days from the date of receipt of order.

(i) GA drawing showing all details including constructional detail and component layout of panels.

(ii) Single line Power Circuit diagrams.

(iii) Technical Specification of all equipment.

(iv) Bill of materials of various components.

(v) 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 tests 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.

9.0. GUARANTEE :

The supplier shall guarantee the equipment for a period of eighteen (18) months from the date of supply or twelve (12) 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.

10.0. MAKES OF COMPONENTS :

Switch Fuse Unit : L & T/ABB/Schneider/Legrand/Siemens

RCBO : L & T/ABB/Schneider/Legrand/Siemens/Hager

MCB : L & T/ABB/Schneider/Legrand/Siemens/Hager

RCCB : L & T/ABB/Schneider/Legrand/Siemens/Hager

Industrial Switch Socket : Hensel-Walther/Hager/Legrand

Terminal blocks : ELMEX / CONNECT

Multifunction Meter : EM 6400 Series (Conzerv Pvt. Ltd.)/DIRIS A40 (HPL-SOCOMECH / SENTRON PAC 3200 (Siemens)

Current Transformer : Kappa/TRANSTECH/G & M

Control Fuse with Base : Bassman/GE/L & T

LED indication : Hensel-Schlegel/Vinay/Syska

ITEM NO. 30, 10 M EXTN. BOARD, (QNTY. – 7 NOS.)

ITEM DESCRIPTION :

1.0.SCOPE :

This specification covers supply & testing of Extension Board with Cable Drum with socket outlets. The Cable Drum shall be comprise of 3C x 2.5 sq mm copper cable, Length 10 mtrs, 1 No. 16A, 3P, IP 44 Plug for Incoming and 2 Nos. 16 A, 3P, IP 44 outlet Socket .

2.0.TECHNICAL SPECIFICATION:

(a) IP 44 made of special hard synthetic rubber, UV & Chemical resistant, insulated & sock proof, suitable for cable assemblies upto 6 sq mm, suitable to accommodate upto 32A ,5 pin CEE Sockets and having sturdy and lightweight handle, handle for easy rotation, can be equipped with RCCB/MCBs and fitted transparent cover easy access to breakers, trolley arrangement for easy transportation

(b) The cable drum shall be pre-wired using the components approved by CES. The assembly shall be rated for 1000 V AC and shall be used for construction sites / shut down / maintenance and therefore shall be intended for use in both indoors and outdoors, i.e. temporary places of work to which the public do not generally have access and where building construction, installation, repairs, alteration or demolition of property (buildings) or civil engineering (public works) or excavation or any other similar operations are carried out.

(c) The complete unit shall be portable / transportable (semi-fixed) or mobile assemblies with enclosure. The assembly shall conform to IEC 604139 - 4; while the sockets shall conform to IEC 60309 - 1 for general requirements & IEC 60309 -2 for requirements of Earth Pin Position. IEC 60309-2 connectors shall be so designed that a plug of one type can only be inserted into a socket of the same type.

(d) Different current ratings (such as 16 A, 32 A) shall be distinguished by different diameters of the circular housing. (e) Different voltage and frequency combinations shall be distinguished

<p>by the location of the ground pin. Therefore, the ground pin shall be at 6 O'clock position for this requirement. (f) The major key way is a projection on the plug casing that aligns with a notch on the socket. The ground pin has a larger diameter than the other pins, preventing the wrong type of plug being inserted in a socket.</p> <p>(g)Extension Board with Cable Drum :</p> <p>Cable Size : 3C x 2.5 sq mm Copper cable , Lenth: 10 mtrs</p> <p>Incoming : 16/20 A, 3P, IP44 Plug & Socket : 1 no.</p> <p>Outgoing : 16/20 A, 3P, IP44 Plug & Socket : 2 nos</p> <p>3.0. MAKE OF CABLE : NICCO / UNIVERSAL / CCI / POLYCAB / NECAB / INCAB / RPG</p> <p>4.0. GENERAL TECHNICAL REQUIREMENTS : (a)GA diagram , dimension details, test certificates, literatures, rating etc. shall be forwarded to Head-Electrical for technical evaluation.</p> <p>5.0.WARRANTY/GURANTEE : (a)Against any manufacturing defect for a period of one (1) year from the date of acceptance or eighteen (18) months from the date of supply whichever is earlier. Warranty/Gurantee certificate duly signed to be submitted alongwith despatch documents.</p> <p>6.0.DOCUMENTS SUBMITTED : (a)All tests results shall be recorded in a proper manner. Four sets of all the test results and check sheets for all the equipment as required shall be submitted to OIL. The results shall be typed and properly documented. (b)All equipment shall be accepted by OIL on submission of four sets of test results signed by licensed supervisor, corrected wiring diagram in bound form and all the documents mentioned against each equipment in the respective equipment description.</p>	
<p>ITEM NO. 40, 15 M EXTN. BOARD, (QNTY. – 6 NOS.)</p> <p><u>ITEM DESCRIPTION :</u></p> <p>1.0. SCOPE : This specification covers supply & testing of Extension Board Cable Drum with socket outlets. The Cable Drum shall be comprise of 3C x 2.5 sq mm Copper cable 15 mtrs , 1 No. 16A, 3P, IP44 Plug for Incoming and 2 Nos. 16A, 3P,,IP44 outlet Socket .</p> <p>2.0. TECHNICAL SPECIFICATION: (a)IP 44 made of special hard synthetic rubber, UV & Chemical resistant, insulated & sock proof, suitable for cable assemblies upto 6 sqmm,suitable to accommodate upto 32A 5pin CEE Sockets and having sturdy and lightweight handle, handle for easy rotation,can be equipped with RCCB/MCBs and tined transparent cover easy access to breakers, trolley arrangement for easy transportation (b)The cable drum shall be pre-wired using the components approved by CES. The assembly shall be rated for 1000 V AC and shall be used for construction sites / shut down / maintenance and therefore shall be intended for use in both indoors and outdoors, i.e. temporary places of work to which the public do not generally have access and where building construction, installation, repairs, alteration or demolition of property (buildings) or civil engineering (public</p>	

works) or excavation or any other similar operations are carried out.

(c)The complete unit shall be portable / transportable (semi-fixed) or mobile assemblies with enclosure. The assembly shall conform to IEC 604139 - 4; while the sockets shall conform to IEC 60309 - 1 for general requirements & IEC 60309 -2 for requirements of Earth Pin Position. IEC 60309-2 connectors shall be so designed that a plug of one type can only be inserted into a socket of the same type.

(d)Different current ratings (such as 16 A, 32 A) shall be distinguished by different diameters of the circular housing. (e)Different voltage and frequency combinations shall be distinguished by the location of the ground pin. Therefore, the ground pin shall be at 6 O'clock position for this requirement. (f)The major keyway is a projection on the plug casing that aligns with a notch on the socket. The ground pin has a larger diameter than the other pins, preventing the wrong type of plug being inserted in a socket.

(g)Extension Board with Cable Drum :

Cable Size :

3C x 2.5 sq mm Copper cable , Lenth: **15 mtrs**

Incoming :

16/20 A, 3P,IP44 Plug & Socket : 1 no.

Outgoing :

16/20 A, 3P,IP44 Plug & Socket : 2 nos

3.0. MAKE OF CABLE : NICCO / UNIVERSAL / CCI / POLYCAB / NECAB /
INCAB / RPG

4.0. GENERAL TECHNICAL REQUIREMENTS :

(a)GA diagram ,dimension details, test certificates, literatures, rating etc. shall be forwarded to Head-Electrical for technical evaluation.

(b)Soft copy Drawing are attached herewith for ready reference.

5.0. WARRANTY/GURANTEEE :

(a)Against any manufacturing defect for a period of (1) one year from the date of acceptance or eighteen (18) months from the date of supply whichever is earlier. Warranty/Gurantee certificate duly signed to be submitted alongwith despatch documents.

6.0.DOCUMENTS SUBMITTED :

(a)All tests results shall be recorded in a proper manner. Four sets of all the test results and check sheets for all the equipment as required shall be submitted to OIL. The results shall be typed and properly documented.

(b)All equipment shall be accepted by OIL on submission of four sets of test results signed by licensed supervisor, corrected wiring diagram in bound form and all the documents mentioned against each equipment in the respective equipment description.

Special Notes:

(1) Quotation along with technical literatures/catalogues shall be submitted for technical evaluation.

(2) 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 offer.

(3) 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.

(4) 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.

(5) 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.

(6) Party shall submit an undertaking with their offer confirming compliance to all point mentioned in NIT.

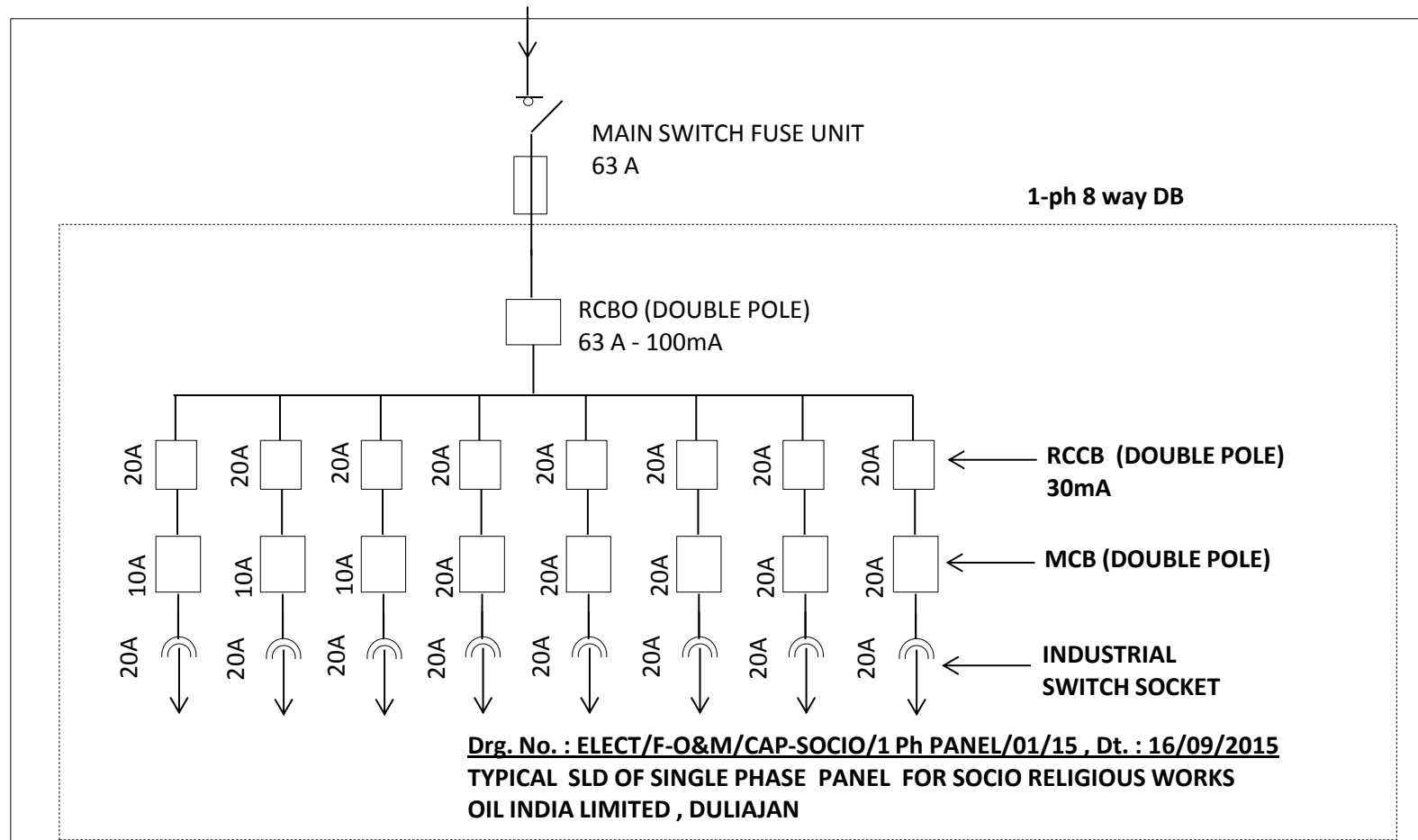
(7) All works shall be carried out in complete with latest IS, CEA Regulation 2010 and National Electrical Code.

(8) The party shall be responsible for safe custody and proper storage of materials till handing over to OIL.

(9) The panels shall be supplied as similar to attached Single Line Diagram (SLD).

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

POWER SUPPLY SINGLE LINE DIAGRAM FOR 1-PH PANEL



3-ph 4 Wire, 6 way DB

MAIN SWITCH FUSE UNIT (HRC FUSE)
4 POLE 3 PHASE , 125 A

RCBO - DP
63 A - 100mA

RCBO - DP
63 A - 100mA

RCBO - DP
63 A - 100mA

RCCB - DP
30mA

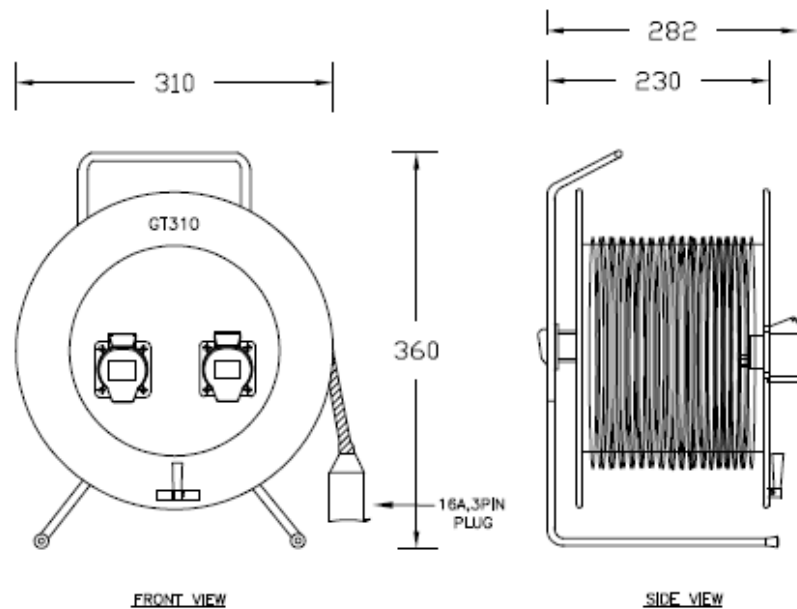
MCB DOUBLE POLE

INDUSTRIAL SWITCH SOCKET

Drg. No. : ELECT/F-O&M/CAP-SOCIO/3 Ph PANEL/02/15 , Dt. : 16/09/2015 - TYPICAL SLD OF 3 PHASE ELECTRICAL PANEL FOR SOCIO RELIGIOUS WORKS , OIL INDIA LIMITED , DULIAJAN.

Drg. No. : ELECT/F-O&M/CAP-SOCIO/3 Ph PANEL/02/15 , Dt. : 16/09/2015 - TYPICAL SLD OF 3 PHASE ELECTRICAL PANEL FOR SOCIO RELIGIOUS WORKS , OIL INDIA LIMITED , DULIAJAN.

DRAWING FOR CABLE DRUM (10 MTR.)



NOTES:

TYPE OF ENCLOSURE: SPECIAL HARD SYNTHETIC RUBBER (GT310)
DEGREE OF PROTECTION: IP44 (EN 60 529)
DIMENSION: 310 X 360 X 282 MM
SYSTEM VOLTAGE: 230V, 50HZ, 3 WIRE
WEIGHT: 18 Kgs(APX)

INCOMING

16A,3P,IP44,PLUG - 1 No.

OUTGOING:

16A,3P,IP44,SOCKET - 2 Nos.

TERMINAL:

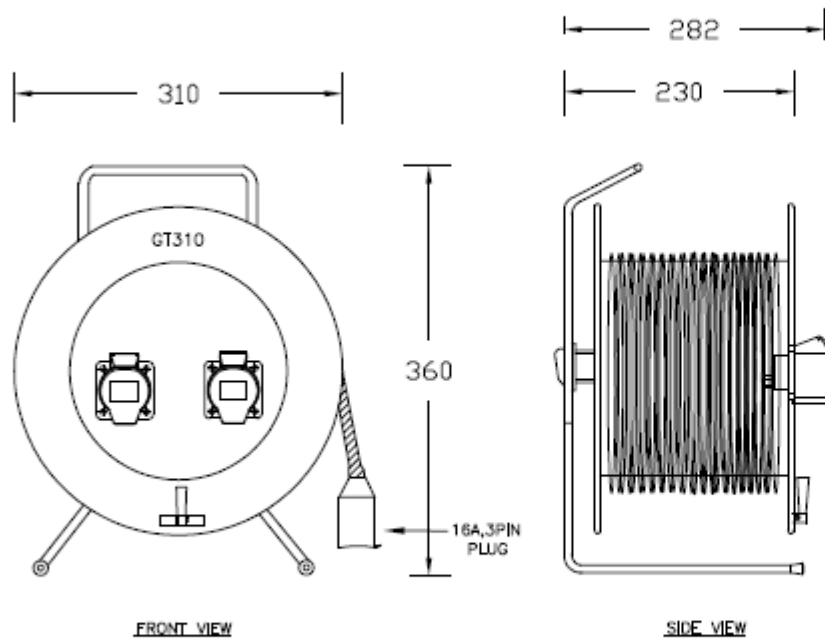
LIGHTING POLE TERMINAL - 1 No.
EARTH & NEUTRAL LINK-2 Nos.

CABLE SIZE:

3C X 2.5 SQMM CABLE -10 Meters

Drg. No. : ELECT/F-O&M/CAP-SOCIO/CABLE DRUM-10M/03/15 , Dt. 16/09/2015
TYPICAL DIAGRAM FOR EXTENSION BOARD

DRAWING FOR CABLE DRUM (15 MTR.)



NOTES:

TYPE OF ENCLOSURE: SPECIAL HARD SYNTHETIC RUBBER (GT310)

DEGREE OF PROTECTION: IP44 (EN 60 529)

DIMENSION: 310 X 360 X 282 MM

SYSTEM VOLTAGE: 230V, 50HZ, 3 WIRE

WEIGHT: 18 Kgs(APX)

INCOMING

16A,3P,IP44,PLUG - 1 No.

OUTGOING:

16A,3P,IP44,SOCKET - 2 Nos.

TERMINAL:

LIGHTING POLE TERMINAL - 1 No.

EARTH & NEUTRAL LINK-2 Nos.

CABLE SIZE:

3C X 2.5 SQMM CABLE -15 Meters

ELECT/F-O&M/CAP-SOCIO/CABLE DRUM-15M/04/15 , Dt. 16/09/2015
TYPICAL DIGRAM FOR EXTENSION BOARD

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 have been filled in by the bidder for the items quoted by them.		
7	Confirm that the 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 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 Payment terms of NIT (if applicable) otherwise 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.