

## **ANNEXURE : II**

Other than the vendors to whom the enquiry has been issued, interested vendors who wish to participate in the tender may apply with proper credentials and other relevant details so as to reach Head-Materials, Oil India Limited, P.O. Duliajan, Dist. Dibrugarh, Assam – 786602 (e-mail : [material@oilindia.in](mailto:material@oilindia.in), Fax : 0374-2800533) within 10 days of publication of the tender on OIL's website.

The vendors must fulfill the following conditions:

- i) The party should have 03 (three) years' experience as on the Bid closing date for the same item.
- ii) The party should have received one order for at least 50% quantity in last 03 (three) years' (as on the Bid closing date) for the item from any reputed firm.
- iii) Annual turnover of the firm in any of the last 3 (three) financial years or current financial year should be more than Rs.06.00 lakhs.

### **NOTE:**

- a. The applicant must meet the above qualifying criteria for which documentary evidence should be enclosed by the applicant with the application without which tender document shall not be issued.
- b. Relevant documents in support of experience, last order and annual turnover must be submitted along with the application.
- c. Application without complete supporting document will not be considered.

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**Tender No.** : DID6526L15/L3  
**Tender Date** : 11.03.2015  
**Bid Closing On** : 23.04.2015 at 13:00 hrs.(IST)  
**Bid Opening On** : 23.04.2015 at 13:00 hrs.(IST)

**Tender issued to following parties only:**

Slno	V_Code	Vendor Name	City/Country
1	200009	BHARAT HEAVY ELECTRICALS LIMITED	BHOPAL
2	200310	ASSAM ELECTRICALS	TINSUKIA
3	200832	INDUSTRIAL EQUIPMENTS	GUWAHATI
4	201596	EVERLITE ENGINEERING INDUSTRIES	PANITOLA
5	201659	PURBANCHAL UDYOG	GUWAHATI
6	201667	RIGHILL ELECTRICS PVT LTD	BHOPAL
7	202289	U.K. ENTERPRISE	GUWAHATI
8	202973	TRADE & TECHNOLOGY PVT. LTD.	DIBRUGARH
9	203062	GLOCON	TINSUKIA
10	204244	PCE PROJECTS PVT.LTD.	KOLKATA
11	204567	K.D. ENGINEERING WORKS	DIBRUGARH
12	205062	POWER GRID ASSOCIATES	DULIAJAN
13	206089	ELECTROKINGS	JORHAT

**OIL INDIA LIMITED**  
(A Govt. of India Enterprise)  
P.O. Duliajan-786602, Assam

**E-mail:**material@oilindia.in, **Fax No.**91-374-2800533

**Tender No. & Date : DID6526L15/L3 11.03.2015**

Bid Security Amount : INR 0.00 OR USD 0.00  
(or equivalent Amount in any currency)

**Bidding Type : Single Bid (Composite Bid)**

Bid Closing On : 23.04.2015 at 13:00 hrs. (IST)  
Bid Opening On : 23.04.2015 at 13:00 hrs. (IST)

Performance Guarantee : Not Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
<b>10</b> 0C000161	<b>Specification for LT Wall Mounted Panel for Zaloni Annexe Guest House:</b> <b>Brief description of Panel:</b> LT Cubical type Wall mounted panel shall be suitable for 415 V, 4 wire systems, 50 Hz system with following incomer and outgoings: <b>i)Two(02) numbers of incomer MCCB consists of inbuilt microprocessor release mechanism with earth fault protection of 250 A ratings. Two MCCB shall be mechanically interlocked and only one MCCB shall operate at a time. Two number digital multifunction meter shall be connected to the both incomer.</b> <b>ii)Eight (08) numbers of outgoing MCCB consist of inbuilt microprocessor release mechanism with , two (02) numbers are 100 A MCCB and six (06) numbers are 63 A MCCB. All MCCB shall have inbuilt earth fault protection.</b>  <b><u>ATTACHED ANNEXURE -A</u></b>	1	NO

**Standard Notes: A.** Other than the vendors to whom the enquiry has been issued, interested vendors who wish to participate in the tender may apply with proper credentials and other relevant details so as to reach Head-Materials, Oil India Limited, P.O. Duliajan, Dist. Dibrugarh, Assam - 786602 (e-mail : material@oilindia.in, Fax : 0374-2800533) within 10 days of publication of the tender on OIL's website.

**B.(1) VALIDITY :** Your offer must be valid for 75 days from the date of bid opening. Offer with inadequate validity will be rejected.

**(2) The offer should be submitted in Duplicate.**

**(3) 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 a 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).

(4) In the event you authorize your dealer/stockist/channel partner to quote on your behalf, the dealer/stockist/channel partner while submitting bid should mention on the body of the envelope that they are submitting bid on your behalf.

In the event the dealer/stockist/channel partner do not mention the name of their OEM/principal on the body of the envelope, the offer shall be treated as unsolicited offer and will not be considered for opening.

The dealer/stockist/channel partner should take note of above while submitting bid on behalf of their OEM/principal.

(5) For order with F.O.R. Destination term, 100% payment against despatch documents will not be entertained. In this regards please refer payment terms in ANNEXURE-MM/TENDER/LP/01/06.

(6) To evaluate the inter-se ranking of the offers, Assam Entry Tax on purchase value will be loaded as per prevailing Government of Assam Guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their bids.

(7) Bidder must mention page no./nos. in every pages of their offer.

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

(9) Bidder should clearly mention their name and address on the outside of the envelope containing their offer.

(10) 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.

**Special Notes :**

- 1. 0: The bidder has to submit/confirm the following documents with the offer.
  - i) Confirmation that the offered panel shall conform to all the points of the tender.
  - ii) General Arrangement drawing with component details and dimension of the offered panel.
  - iii) Copy of following documents from CPRI or any other organisation accredited by National Accreditation Board for Testing and Calibration Laboratories, Govt of India for the offered panel.
    - a) Copy of test certificate for busbar fault level of 50kA
    - b) Copy of Temp rise test of busbar as per IS.
    - c) Copy of Short time current withstand test (50 kA for 1 sec).

2.0: Detail drawing of panel showing termination details, wiring diagram and complete bill of material must be submitted to OIL for approval within 15days after placement of the order. The manufacture shall start manufacturing after obtaining prior approval of the drawings by OIL. In case of an order on the party complete tender specs and the deviations accepted by OIL in writing shall only be mentioned in the order.

3.0. The feeder pillar shall be inspected by OIL at manufacturer's works before dispatch and all routine tests shall be witnessed during inspection. Party to inform OIL for inspection minimum 15 days before dispatch. All routine tests as per ISI shall be done at the time of inspection.

**ANNEXTURE:A****Details Specification of Panel:****1.0 The Panel shall have the following features:**

- # Panel shall be indoor and cubicle type with provision of extension of panels in future.
- # Panel shall be wall mounted with supporting stand and front opening type.
- # The frame of the panel shall be sufficiently strong and made of minimum 40 x 40 x 5 mm MS angle iron with intermediate members of suitable section & size.
- # Panel shall be sheet steel clad, cubicle type made of 2.0mm thick MS CR sheet.
- # Panel shall be Dust / vermin proof and weatherproof with IP54 degree of protection.
- # Top and bottom side of panel shall have detachable gland plates made from 3 mm thick MSCR sheet shall be provided for all cable entries.
- # The entire metal work shall be treated with seven tank antirust treatment as per IS and then powder coated in DA Grey color.
- # Special non-deteriorating Neoprene rubber gaskets shall be provided between all joints.
- # Panel shall be designed for Ambient of 45°C (Max)/ 5°C (Min) and Humidity-95% (Max).
- # All feeders shall be suitable for operation from front side only.
- # All panel doors shall be provided with single turn latches for opening / closing.
- # Internal barriers shall be provided between cubicles to provide separation as per IEC to prevent transmission of flashover from one panel to other panels.
- # Danger plates shall be fitted on front and back of the panel.
- # Legend plates of the feeders shall be provided in the front as well as at back of each feeder.
- # Adequate nos. of lifting lugs shall be provided on top.
- # Ventilation louvers shall be guarded with wire mesh.
- # Internal earthing shall be provided for all equipment having earthing terminal and panel doors with suitably rated, PVC insulated, flexible copper earth wires or copper braids of suitable rating as per IS.
- # The maximum size of the panel board shall not be more than 1800mm (L) x 500 mm (B) x 1200 mm (H).
- # BIS ref.: Confirming to IS-8623, IS 13947

## **2.0 PANEL COMPARTMENTS / SECTIONS:**

The panel shall broadly have the following compartments / sections.

A) Incomer section

B) Outgoing section

C) Bus chamber

D) Cable chamber / cable alley

**A) INCOMER SECTION:** Two (02) nos. of compartment having following specification of each compartment

One (01)no. of 250 Amps Four Pole Moulded Case Circuit Breaker of Microprocessor releases mechanism having earth fault protection system with mechanical interlock. One number of key and two numbers of locks shall be provided that only one MCCB shall be operated at a time:

MCCB shall have in built Microprocessor release mechanism with earth fault protection of Breaking capacity minimum 36 kA with a rotary handle operating mechanism, with spreader links and following feature

#Protection against overloads:

$I_r$  adjustable from 0.4 to 1 x  $I_n$

$T_r$  adjustable from 3 to 15s

# Protection against short circuits:

$I_{sd}$  adjustable from 1.5 to 10 x  $I_r$

$T_{sd}$  adjustable from 0 to 0.5s

#Protection against earth fault:

$I_g$  adjustable: from 0.2 to 1 x  $I_n$

$T_g$  adjustable from 0.1 to 1s

The MCCB shall have test push button, reset push button and shall be duly wired up to trip MCCB in case of earth leakage.

**Legend: INCOMER-1 and INCOMER-2**

The incomer MCCB units shall be complete with brought out terminals of suitable rating and single compression cable gland suitable for 1 nos. x  $3\frac{1}{2}$  C x 240 mm<sup>2</sup>, PVCA, Aluminium 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.

**Incoming Feeder Instruments:** The Each incoming feeder shall comprise the following instruments in an instruments panel complete with all necessary interconnections, fine wiring and duly tested:

**1. LED type Indication Lamps for 'Phase Healthy' indication in Red, Yellow and Blue in colour, Quantity: 3 numbers.**

**2. Multifunction meter of displaying Volts/Amps/KW/KWH/PF/Frequency**

**Quantity: 01 numbers**

## **B OUT GOING SECTION**

**1. Two (02) nos. of compartment with following specification of each compartment :**

**One (01) no. of 100 Amps Four Pole Moulded Case Circuit Breaker with Microprocessor release MCCBs with earth leakage protection of Breaking capacity minimum 36 kA with a rotary handle operating mechanism.**

**The MCCBs shall have the following protections:**

**#Protection against overloads:**

**I<sub>r</sub> adjustable from 0.4 to 1 x I<sub>n</sub>**

**T<sub>r</sub> adjustable from 3 to 15s**

**#Protection against short circuits:**

**I<sub>sd</sub> adjustable from 1.5 to 10 x I<sub>r</sub>**

**T<sub>sd</sub> adjustable from 0 to 0.5s,**

**#Earth leakage module**

**Adjustable sensitivity of current: (0.03-0.3-1-3) A**

**Adjustable tripping: (0-0.3-1-3) Sec (with 0.03 A possible only 0s)**

**2. Six (06) nos. of compartment with following specification of each compartment :**

**One (01) no. of 63 Amps Four Pole Moulded Case Circuit Breaker with Microprocessor release MCCBs with earth leakage protection of Breaking capacity minimum 36 kA with a rotary handle operating mechanism.**

**The MCCBs shall have the following protections:**

**#Protection against overloads:**

**I<sub>r</sub> adjustable from 0.4 to 1 x I<sub>n</sub>**

**T<sub>r</sub> adjustable from 3 to 15s**

**#Protection against short circuits:**

**I<sub>sd</sub> adjustable from 1.5 to 10 x I<sub>r</sub>**

**T<sub>sd</sub> adjustable from 0 to 0.5s,**

## #Earth leakage module

Adjustable sensitivity of current:(0.03-0.3-1-3) A

Adjustable tripping: (0-0.3-1-3)Sec (with 0.03 A possible only 0s)

All the outgoing feeders shall have brought out terminals for terminating single core copper cable.

## C) BUS CHAMBER

The bus chamber shall be sheet steel clad having front bolted covers and shall consist of 1 set TP & N electrolytic grade, high conductivity electrolytic E 91 E grade aluminium Bus Bars, conforming to IS: 5082. Current rating of bus bar sections shall be 600 Amps suitable for 415 V AC, 50 Hz system. Neutral bar shall be of same size as phase bus. The bus-bar shall be insulated with heat shrinkable PVC sleeves and shall be supported at required intervals with non- hygroscopic, non-deteriorating, and non-inflammable SMC / FRP supports having adequate mechanical strength and a high tracking resistance, to withstand short circuit fault levels up to 50 kA for 1 sec. All risers and connections from bus bar shall be done with same material as the main bus bars of current rating as per rating of individual cubicle switch. To suit the stringent site conditions, the bus bar system shall be designed with generous clearance between phases than specified in the standards. Adequate non-hygroscopic insulating sheet barriers between the bus chambers and feeders shall be provided.

D)CABLE CHAMBER / CABLE ALLEY: Suitable cable alleys shall be provided in between sections of the panel to drive the cables. Supports as required shall be provided along the cable alleys for supporting the cables / wires.

## 3.0 GENERAL NOTES:

- i. All connections to the bus bar from the incomer MCCB shall be suitably sized and rated aluminium links covered with heat shrinkable insulated sleeve.
- ii. All interconnections from bus bar to the feeder MCCB shall be suitably sized aluminium links with insulated sleeve.
- iii. All outgoing interconnection from feeder MCCB to cable alley shall be suitably sized aluminium links with insulated sleeve. For termination of outgoing cable connection, Nuts and bolts arrangement shall be provided.
- iv. Necessary phase barrier for insulation shall be provided where required (in front of bus links and between individual outgoing feeders).
- v. Brought out terminals of suitable rating (as per rating of the feeder)shall be provided for all cable terminations of incoming / outgoing feeder units.
- vi. Suitably rated tinned copper crimping lugs for each conductor of all outgoing cable connections shall be supplied with the brought out terminals.
- vii. All outgoing cable entries shall be from top. 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, 4Core, Copper cable shall be provided on the top of detachable gland plate. Adequate nos. of glands shall also be provided for circuits to be fed from DBs. Only incomer cable shall be



entered from bottom side. Suitable cable entry arrangement for incoming cable (1 x 3.5x 240 mmsq PVCA cable) with detachable gland plate shall be provided.

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

ix. Control wiring shall be done with 2.5 sq. mm 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.

x. All feeders shall have Moulded fuse holders, suitably fused, for control & instrument circuits.

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

#### **4.0 MAKES OF COMPONENTS:**

##### **Item Make**

**MCCB : Merlin Gerin/Schneider/Legrand/Siemens/ABB**

**HRC Fuses / Fuse Holders : GEPC**

**Multifunction Energymeter:Siemens/Conzerv Pvt Ltd/HPL-SOCO MEC**

**LED Type Indication Lamps : Vinay / Teknik/Siemens/L&T**

**Earth Leakage Relay : Merlin Gerin / Legrand**

**RCBOs / MCBs / RCCBs : Legrand / Merlin Gerin / Siemens**

**Metal Clad, Industrial Type Switch Socket : Legrand/Merlin Gerin**

**Terminal Blocks / DIN Channel : Connectwell / Tosha**

**Wiring Cables : Finolex / Havell#s**

**Lugs : Dowell#s/3D**