Tender No. : **DID3236L15/L3**
Tender Date : **16.04.2014**
Bid Closing On : **29.05.2014 at 13:00 hrs.(IST)**
Bid Opening On : **29.05.2014 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

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 : DID3236L15/L3 16.04.2014

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

Bidding Type : Single Bid (Composite Bid)

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Performance Guarantee : Not Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
10 0C000404	**ITEM DESCRIPTION** **A. General Description of Panel:** **a) The panel should be of fixed type, single front,double door, compartmentalized, totally enclosed, free standing, floor/wall mounted type, dust and vermin proof. It should contain high conductivity electrolyte aluminium bus bar and individual feeder panel suitable for operation from front side. Frames should be made from suitably sized rigid framework of steel formed angles and channels. Enclosure sheet thickness of the panel should be of minimum 1.6 mm for non load bearing members & 2.00 mm for for all load bearing members. Cubicles should have individual front doors with sturdy hinges and fitted with special non-deteriorating neoprene gasket. Similar gaskets should be provided between all joints as required. Lifting lugs should be provided on the top of panel. Powder coating shade for the panel should of RAL7032/RAL7035 with light grey colour.** **b). Suitable Energy meters should be provided and fixed on all outgoing feeders.** **c) Panel should have horizontal main busbars with alternate vertical busbar and cable alleys for proper distribution of panels.** **d) Suitable GI strip should be provided on the backside of the panel with adequate holes (13mm dia each) with nuts, bolts and washers for making earth connections for all panels and cables. Length of GI strip should be same as panel length. Zinc plated and passivated double earthing studs with nuts, bolts and washers should be provided on the earthing strips.** **e) Danger plates (415 VAC) should be fixed on both front and rear of panel including the busbar chambers.** **f) Panel and its components should be conforming to IS: 2147,3247,4237,8623, 8828, 13947 and 12640. Protection should be as**	2	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	per IP-52, Ambient-40°C (Max)/ 5°C (Min), Humidity-95% (Max). **g).Maximum dimension of the power panel should of 3.00 mtr (length),0.8 mtr (width) & 2.5 mtr (height)** **B. Detail Description of Panel** **a) Incomer:** **There will be 1(one) incomer, with 4 pole, 1000A, 415V, 50 kA breaking capacity rated ACB with microprocessor based release for overcurrent, short-circuit and earth fault protection with** distinct fault indication. The ACB should conform to **IEC60947-2/IS 13947-2, tropicalized to Class-II (high humidity); breaking capacity 80 KA at rated service voltage; the overload (long time), short circuit (short time) and earth fault current settings should be selectable including individual time settings. Make: Merlin-Gerin/ Siemens/ ABB/INDOASIAN.** **All incoming and outgoing terminals of ACB should be fitted with spreader links supplied by ACB manufacturer or brought out phase & neutral links of alumunium in rectangular sections with hole. Zinc passivated nut bolts with flat and spring washers for connection should be provided for cable termination (01 no. of 3.5x240 sq mm LT PVCA alumunium cable for incoming supply for incomer).The vertical distance between the center of connection hole in the links for cable connection and the bottom gland plate should be minimum 450 mm. The Neutral link rating should be 100% of the phase bar rating.** **Detachable gland plate should be provided which should be suitable for fixing cable gland of the size mentioned.** **Metering/ Instrumentation for the Incomer:** **1) 01 no.- Digital multifunction meter indicating Voltage, Current, Frequency, Power factor, Power and Energy with RS-485 capability; make- Swift-Encore/Siemens/HPL-Socomec/Merlin Gerin (Schneider)** **2) 01 nos.- Current transformers for metering, wire wound, 800/5, 15 VA, Class 1, IS: 2705; make- AE/Kappa/Siemens** **3) 01 nos.- Current transformers for protection, wire wound, 800/5, 15 VA, Class 0.1, IS: 2705; make- AE/Kappa/Siemens** **4) 06 nos.- LED indication lamps for indication of 'Supply ON' (for R/Y/B phases), 'CB Off/CB On/Trip-OC/Trip-SC/Trip-EF'; make- Teknik/Siemens/Telemecanique/ABB/BCH** **5) As required- Moulded HRC fuse holders with suitably rated fuse links for control circuit and instrument circuit protection; make- GE/Telemecanique/Bussman** **6) 01 no of Auto/Manual selector switch. Make-Kaycee/equavalent** **7) 07 no of 2A SP MCB(10KA. Make-INDOASIAN/ABB/CG/etc** **8) Any other required materials.** **b) Busbars and bus chamber** **Bus chamber should be steel clad having front and rear bolted covers. The busbars should consist of 1 set of hard drawn, high conductivity, TPN (neutral equally rated to phase bars), electrolytic grade, alumunium bars rated minimum 1000 Amps, supported at sufficient intervals on non-hygroscopic, non-inflammable GRP/SMC supports. Busbars should be rated to withstand short circuit fault currents of 50 KA for 1 second.**		

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	The busbar individual phases should be colour coded for easy identification. Main busbars should be full length of the panel. Vertical bus bars for feeding individual feeder should be full height of the panel. Sufficient clearance should be maintained in the bus chamber for proper cooling of the busbar. Busbar should be extensible type to facilitate future extensions. **c) Feeder Panels:** **The panel should house the following outgoing feeder panels:** **(i) 01no of 300A MCCB feeder with protection & all metering features.** **(ii)02no of 200A MCCB feeder with protection & all metering features.** **(iii)03no of 100A MCCB feeder with protection & all metering features** **(iv) 01(one) box with single phase RCBO and 8 nos. MCBs (suitably rated) for illumination and power socket outlets.** **Description of feeder panels:** **a) MCCB isolator (Isolation requirement):** **Each outgoing feeder panels, four pole MCCB should be used with identical capacity and type.The MCCBs should be operated from outside the panel. The MCCB handles should also project outside the panel doors enabling breaker operation from outside the panel. All MCCB used should be suitable for isolation as per IEC 947-2.** **b) Panel components:** **All going feeders should be housed in individual cubicles.All feeders should have suitably rated MCCBs. All feeders should be provided with proper protection for O/C, E/F & S/C fault.** **Main components of individual feeder panels:** **a) Incomer ACB (as isolator/main switch) with micro processor based relase for protection O/C, E/F & S/C fault** **b)01 no of digital energy meter of class-1, with RRS 385 port. Make-AE/Cozerv** **c) 01 of digital voltmer(0-500V AC) with selector switch. Make-AE/Conzerv in each outgoer** **d) 01 no of digital ameter in each outgoer of suitable range. Make-AE/Conzerv in each outgoer** **e). CTs for metering & protection as per feeder capacity. Make-AE** **f) LED indication lamps for ON/OF. Make-BCH** **g) Suitable single pole MCB.** **h) 01 no.- Digital multifunction meter indicating Voltage, Current, Frequency, Power factor, Power and Energy with RS-485 capability; make- Swift-Encore/Siemens/HPL-Socomec/Merlin Gerin (Schneider)/INDOASIAN** **3) Panel wiring:** **i) All internal wiring and cabling inside the panels should be done with 1.1 KV grade fire retardant PVC insulated tinned copper multi-stranded flexible cables with proper lugs. All wires and cable should have proper ferrule numbers for easy identification.** **ii) Ring lugs should be used at all critical connections such as CT connections. No more than two wires or lugs may be attached under any one screw. All control & CT wiring should be terminated on suitable**		

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	TBs. All terminal strips to have minimum 2 nos. spare terminals to accommodate any modification required during commissioning / operation. All terminal strips should be accessible for testing and troubleshooting/maintenance. **iii) All control wiring inside the panels should be done with single core, flame retardant multi-stranded flexible copper PVC insulated (1100 V) wire, 1.5 mm2 for potential circuits and 2.5 mm2 for current circuits. Control wires should be properly identified with ferrule numbers and suitably terminated with proper sized lugs; cable make-Finolex/Havells/Henley/Nicco/Reputed brand.** **4) Features of the Panel:** **1. Pad locking arrangement for safety & sealing purposes.** **2. Red-Green indicators for power ON-OFF indication** **3. Mechanical interlocking, Doors not openable when MCCB is ON** **4.Seperate Cable Alleys for ease of outgoing connection.** **5. Special non-deteriorating Neoprene rubber gaskets between all joints should be provided as and where required.** **5. Adequate insulated barriers between the bus chamber and feeder should be provided as per IEC 439-1.** **6. Wiring cables from panel to door should be protected with heavy duty PVC spiral binding.** **7. All the hardware should be of high tensile steel duly zinc passivated for corrosion protection & fitted with proper sized heavy duty spring washer & two nos. heavy duty flat washers.** **8. Sufficient space should be provided for proper glanding, dressing, connecting up and maintenance of cables. Adequate space should be provided for connecting the cable leads to the terminal blocks.** **9. Suitable cable supporting arrangement should be provided inside the cable alley to firmly grip the cables connected to the terminal blocks of the outgoing feeders.** **10. All hinged doors should be earthed with copper flexible loops / braids as per IS-3043.** **14. Suitable SS/brass material, NiCd plated single compression cable glands should be provided in the panels. Gland sizes shall be provided by OIL during detailed engineering/drawing approval. .** **C. Drawings and Documents:** **1. The following documents are required to be submitted with the offer.** **(i) Confirmation that the offered board should conform to all the points of the tender. Any deviation from the tender specs must be clearly mentioned with technical justifications. In case** of an order on the party complete tender specs and the **deviations accepted by OIL in writing should only be mentioned in the order.** **(ii) Copy of test certificate for busbar rated 2000 Amps or above for fault level of 50 kA for 1 second from CPRI or any govt. approved NABL accredited test laboratory.** **(iii) Copy of test certificate for panels with Degree of Protection IP: 52 from CPRI or any govt. approved NABL accredited test laboratory** **(iv) Indicative general arrangement and layout drawing of the panel** **(v) Indicative schematic and single line diagram of the panel** **(vi) Credentials of bidder having minimum 10 years (till the bid closing**		

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	date) experience in design, fabrication and testing of LT MCCB Electrical Panels/LT power Panel. During these years bidder must have manufactured and supplied minimum 1 nos. of panel to Govt./semi-govt/PSUs. This panel must be in operation **satisfactorily as on date.** **2. 3(three) spiral bound sets of the following documents, drawings and literatures are to be supplied with the Board:** **(i) General arrangement, foundation, schematic diagram and** wiring diagrams (#as built") **(ii) Works Test report containing result of tests done at factory during inspection** **(iii) Guarantee Certificate** **(iv) Technical Catalogue of Air circuit breakers, Moulded Case Circuit Breakers and Digital Meters** **(vii) Bill of Materials with Part description and details** **D. Guarantee:** **The LT Power panel and all parts must be guaranteed with all its components for a period of 12 months after commissioning. Party** will arrange for repair/ replacement, as required by OIL, of **defective parts within one month of reporting of the failure by OIL. This will be at no extra cost to OIL.** **E. Testing and Inspection:** **Panel should be duly tested as per standard at manufacturer's works and routine test certificate should be submitted at the time of pre-despatch inspection.** **In addition to the routine tests, OIL representative should** carry out pre-despatch inspection of the panel and witness all **necessary testing at manufacturer's works. Bidders should separately quote charges towards inspection and witness test, if any. [To and fro charges of OIL's personnel to manufacturer's works will be to OIL's account].** **Panel should be tested as per the following details for witness** testing by OIL's representative: **(i) Accuracy of dimensions & circuitry as per approved drawings. Joints of busbar and links should be checked for proper contact area.** **(ii) Inspection of the assembly including inspection of wiring and mechanical/electrical operation of components and** starters/feeders **(iii) Dielectric (insulation) tests** **(iv) Checking of protective measures and of the electrical continuity of the protective circuit** **(v) Secondary Injection test for Incomer breakers** **Any alteration/modification requirements pointed out during the** inspection should be carried out by the manufacturer at no extra **cost to OIL and confirmed before dispatch, without which dispatch clearance should not be given. In case routine test parameters are found to be outside acceptable values, modifications should be carried out and routine tests on the panel should again be performed with no extra cost to OIL.** **Copies of the test certificates along with bound copies of complete test**		

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	results (after acceptance) should be submitted for approval of OIL prior to dispatch of the panel. **Scope of supply:** **1. Complete panel with the specifications as mentioned in the detailed specifications** **2. Commissioning spares item** **3. Recommended spares with part nos. for all items** **4. #As-Built" drawings (Schematic and SLD), manuals, catalogues, test report etc. after final installation and commissioning, 03 (three) copies each.**		
	Installation & Commissioning of aboves		
20	INSTALLATION & COMMISSIONING **Scope of Installation and Commissioning:** **Supplier should install and commission the Power panel in the designated site of OIL at housing sub-station & OCS-2 sub-station-2 at OIL,Moran.Bidder are requested to quote accordingly.** **Supplier should arrange for all manpower, tools and tackles, instruments etc. necessary for installation and commissioning of the panel.** **Jobs:** **1. Installation and fixing (including grouting) of the supplied panel in the shed (Shed and trench/ foundation should be constructed by OIL)** **2. Connection of the cables (supplied by OIL) to the incomer ACBs** **3. Energization of the panel and testing of the panels- no load condition** **4. Testing of the above panels in full load condition, including simulation of faults, with available loads** **5. Submission of testing and commissioning report** **6.Necessary help/suggestion for installation to be provided by supplier.** **7.Accomodation may be arranged on chargeable basis subject to availability.**	2	NO

Standard Notes: (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 : A. 1. Bidder should be submit all technical literatures, Technical catalogues, dimensional drawing, operation and maintenance manual should be submitted along with the offer, otherwise the offer will be rejected.

2.The material should be supplied as per the specification mentioned in NIT.

3.Material should be procured from the manufacturer or its authorised dealers only. In case of authorised dealer, valid dealership certificate should be enclosed along with the offer otherwise offer will not be considered for evaluation. The panel should be a make of reputed make like Crompton Greaves, Siemens, ABB, Areva, INDOASIAN etc.

4.The panel should be guaranteed for minimum one year period from the date of commissioning or 18 months from the date of supply. Guarantee certificate should be supplied along with the material.

5.Packing should be adequate to avoid transit damage and ingress of water.

6.In case of order, 3(Three) sets of maintenance and opearating manuals should be supplied along with the material and also to trained our employees by manufacturer

engineer about the maintenance and operating of material in OIL workshop.

7. Enclosure sheet thickness of the panel should be of minimum 1.6 mm for non load bearing members & 2.00 mm for for all load bearing members.

8. The panel should be of fixed type, single front, compartmentalized, totally enclosed, free standing, floor/wall mounted type, dust and vermin proof.

9. Protection should be of IP 42

10. After receipt of order and within 30 days then after the party must submit general arrangement, schematic diagram, wiring diagram and foundation details for our approval. Only after our approval in this regards, the order should be executed.

11.Materials to be delivered at OIL INDIA LIMITED,MORAN, ASSAM. The bidder should clearly mention the delivery destination in the offer; otherwise offer will be rejected.

B. 1.The offers must conform to the specifications and terms and conditions given in the demand. Bids should be rejected in **case the items offered do not confirm to the required parameters stipulated in the technical specifications and to the respective standards wherever stipulated.**

2. Bidder shaould be panel manufacturer of 415 VAC switchboards/PCC panels/Power panels and also an authorized dealer/ distributor/channel partner/ stockist of switchgear manufacturer. Bidder should submit credentials in support of this and copy of valid authorization certificate (in case of authorized dealer/distributor/channel partner/stockist) along with the offer.

3. The bidder should have experience of successfully executing similar order (i. e., supplying and commissioning) of at least 1 (one) no. of switchboard /PCC panel/Power panel to Central Govt./State Govt./ PSU for minimum value of Rs. 4,02,000.00 in the last 3 (three) years as on the bid closing date.

4. The bidder should have designed, engineered, manufactured, tested and supplied in the last 3 (three) years as on the bid closing date, at least 1 (one) no. of switchboard/ PCC/ Power panel (fitted with air circuit breaker), rated minimum 415 VAC, 1000 Amps, 50 kA for 1 second.

5. Bidder should have type test certificates for the following tests for their designed and supplied switchboard/ PCC/ Power panels (fitted with air circuit breaker) as per IS: 8623 (with latest amendments) from a test house/ laboratory accredited by National Accreditation Board for testing and calibration Laboratories (NABL), India.
(a) Short time current withstand test
(b) Temperature rise test

6. Bidder has to agree for installation and commissioning of the Ppwer panel at OIL's designated site.

7. Bidder should submit documentary evidence such as copy of purchase order, completion of installation and satisfactory operation certificate and other necessary details and documents as credentials along with the offer.