

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

INVITATION FOR LOCAL COMPETITIVE BID

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

E-Tender No	Bid Closing/Opening Date	Item Description
SDI9376P16 Dtd. 28.11.2015 Single Stage Composite Bid	28.01.2016	Multimedia Wireless Projector (Qty. – 19 Nos.)
SDI9034P16 Dtd. 17.10.2015 Single Stage Composite Bid	28.01.2016	Mini Effluent Treatment Plant (Qty. – 1 No.)
SDI9405P16 Dtd. 02.12.2015 Single Stage Composite Bid	28.01.2016	Primary Injection Testing Kit (Qty. – 1 Nos.)
SDI9407P16 Dtd. 02.12.2015 Single Stage Composite Bid	28.01.2016	Panel (Qty. – 2 Nos.)
SDI8858P16 Dtd. 12.10.2015 Single Stage Composite Bid	28.01.2016	Security Gadgets (Qty. – 960 Nos.)
SDI8999P16 Dtd. 17.10.2015 Single Stage Two Bid	28.01.2016	Transformer (Qty. – 5 Nos.)
SDI9406P16 Dtd. 02.12.2015 Single Stage Two Bid	28.01.2016	Acoustic Enclosure (Qty. – 1 Nos.)
SSI9521P16 Dtd. 09.12.2015 Single Stage Composite Bid	28.01.2016	FSC Paper (Qty. – 7200 Pac)
SSI9478P16 Dtd. 05.12.2015 Single Stage Composite Bid	28.01.2016	Electrical Items

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

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

FORWARDING LETTER

Tender No. : SDI9407P16 Dtd. 02.12.2015

Tender Fee : Rs 1,000.00

Bid Security Amount : Rs. 14,000.00

Bidding Type : SINGLE STAGE COMPOSITE BID SYSTEM

Bid Closing on : As mentioned in the e-portal

Bid Opening on : -do-

Performance Security : Applicable

Integrity Pact : Not Applicable

OIL invites Bids for **Supply of PANEL (QTY. – 2 Nos.)** 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.
	Documentary evidence submitted / not submitted
a) Bidder should have experience of successfully executing single similar order of Rs 4.05 Lakhs during last 3 years.	
b) Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than Rs 13.50 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 Received 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.

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.

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 B.C 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 before the last date of sale of tender document mentioned in the tender.

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with Tender no. and Due date to **Head Materials, Materials Department, Oil India Limited, Duliajan - 786602, Assam** on or before the Bid Closing Date and Time mentioned in the Tender.

- a) Original Bid Security
- b) Detailed Catalogue (if any)
- c) Any other document required to be submitted in original as per tender requirement

All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in triplicate.

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

5.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the NIT or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.

- 6.0 Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.
- 7.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
- 8.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed **Annexure-CCC**. However, if any of the **Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria** (as per **Annexure-CCC**) contradict the **Clauses of the tender and / or "General Terms & Conditions"** as per Booklet No. MM/LOCAL/E-01/2005 for E-procurement (LCB Tenders) elsewhere, those in the **BEC / BRC** shall prevail.
- 9.0 To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.
- 10.0 Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.
- 11.0 If Bank Guarantee is submitted towards 'Bid Security', then bidders have to ensure that the Bank Guarantee issuing bank indicate the name and detailed address (including e-mail) of their higher office from where confirmation towards genuineness of the Bank Guarantee can be obtained.

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: SDI9407P16 Dtd. 02.12.2015.**BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)**

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

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

<u>Criteria</u>	Complied / Not Complied. (Remarks if any)
<p>1.0 BID REJECTION CRITERIA (BRC):</p> <p>A) TECHNICAL:</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>B) COMMERCIAL:</p> <p>i) Validity of the bid shall be minimum 120 days from the Bid Closing Date.</p> <p>ii) Bid security:</p> <p>The bid must be accompanied by Bid Security of Rs 14,000.00 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>28.11.2016</u>).</p> <p>Bid Security may also be paid online on or before the Bid Closing Date and Time mentioned in the Tender.</p> <p><u>If bid security in ORIGINAL of above mentioned Amount and Validity is not received or paid online within bid closing date and time, the bid submitted through electronic form will be rejected without any further consideration.</u></p>	

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

The format of Bank Guarantee towards Bid Security (Annexure – VII) has been amended to Annexure – VII (Revised) and bidders should submit Bank Guarantee towards Bid Security as per Annexure – VII (Revised) only.

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

iii) Performance Security:

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

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

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:

<p>(a) Validity of bid shorter than the validity indicated in the Tender.</p> <p>(b) Original Bid Security not received within the stipulated date & time mentioned in the Tender.</p> <p>(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.</p> <p>(d) Average Annual Turnover of a bidder lower than the average Annual turnover mentioned in the Tender.</p> <p>2.0 <u>BID EVALUATION CRITERIA (BEC)</u></p> <p>The bids conforming to the terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria as well as verification of original of any or all documents/ documentary evidences pertaining to BRC, will be considered for further evaluation as per the Bid Evaluation Criteria given below.</p> <p>A) TECHNICAL:</p> <p>i) The manufactured product should be strictly as per OIL's tender specification.</p> <p>B) COMMERCIAL:</p> <p>i). To evaluate the inter-se-ranking of the offers, Assam Entry Tax on purchase value will be loaded as per prevailing Govt. of Assam guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their offer.</p> <p>ii). To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.</p>	
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NOTE:

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

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TECHNICAL SPECIFICATIONS WITH QUANTITY

Tender No & Date: SDI9407P16 Dtd. 02.12.2015

	Complied / Not Complied (Remarks if any)
<p>ITEM NO. 10, PANEL, (QTY. – 2 NOS.)</p> <p>SCOPE OF WORK:</p> <p>This technical specification covers the design, manufacture, assembly, testing at manufacturer's works, dispatch, packing, forwarding, insurance, storage and preservation at site of 415V A.C. Distribution Board. The scope of the supply also includes necessary special tools and plants required for erection and maintenance of the distribution board. The bidder shall also list out in its bid, the details of tools and plants covered under the scope of supply.</p> <p>The details of features and specifications of the LT panel shall be as per following:</p> <p>1.0 FEATURES:</p> <p>1.1. Panel shall be indoor, cubicle type with provision of extension of panels in future.</p> <p>1.2. Panel shall be built on Self-supporting, floor mounting, rigid framework and compartmentalized design.</p> <p>1.3. The frame of the panel shall be sufficiently strong and made of minimum 50 x 50 x 6mm MS angle iron with intermediate members of suitable section & size. The frame shall be mounted on a bottom structure made from 75 x 40mm MS channel.</p> <p>1.4. The maximum size of the panel board shall not be more than 1600mm (L) x 650mm (B) x 1700mm (H) (+/-20%)</p> <p>1.5. Panel enclosure shall be sheet steel clad, cubicle type made of 2.0 mm thick CRCA ms sheet. Bottom detachable gland plates shall be made from 3.0mm thick CRCA sheet for all cable entries. Height of bottom detachable gland plate shall be 300 mm from floor level.</p> <p>1.6. Panel shall be Dust / vermin proof and weatherproof with IP52 degree of protection.</p> <p>1.7. The entire metal work shall be treated with ten tank antirust treatment as per IS and then powder coated in DA Grey (ISC 632 as per IS 5) colour. Documentary evidence confirming the same shall be provided with the offer.</p> <p>1.8. Non-deteriorating Neoprene rubber gaskets shall be provided between all joints.</p> <p>1.9. Panel shall be designed for Ambient of 45°C (Max)/ 5°C (Min) and Humidity-95% (Max).</p> <p>1.10. All feeders shall be suitable for operation from front side and shall have provision of inspection from backside.</p> <p>1.11. All panel doors shall be provided with single turn latches for opening / closing.</p> <p>1.12. Internal barriers shall be provided between cubicles to provide Form-2 separation as per IEC to prevent transmission of flashover from one panel to other panels.</p> <p>1.13. Danger plates shall be fitted on front and back of the panel.</p> <p>1.14. Legend plates of the feeders shall be provided in the front as well as at back of each feeder.</p> <p>1.15. Adequate nos. of lifting lugs shall be provided on top.</p> <p>1.16. Ventilation louvers shall be guarded with wire mesh.</p> <p>1.17. 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</p>	

rating as per IS.

1.18. Earthing bus shall be provided at bottom of the panel. Earthing Bus shall be made of 50x5 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.

1.19. BIS ref.: Conforming to

(a) IS 8623-1993: Low-Voltage Switchgear and Control gear

Assemblies for enclosure Box & for degree of Protection provided by enclosures of electrical equipment

(a) IS 5082-1998: Specification for wrought # Aluminium & Aluminium alloy, bars, rods, tubes and sections for electrical purpose. Acceptance tests / chemical composition and latest amendments.

(b) IS 13947-1993 (Part II): Low-voltage Switchgear and Control gear for MCCB.

(c) IS 2705: Current transformers.

(d) IS 694-1990: PVC insulated cables for working voltages up to and including 1100V.

(e) IS13703 (Part-I to IV): Low voltage fuses

(f) IS 5578: Guide for Marking of insulated conductors.

(g) IS 11353: Uniform system of marking and identification of conductors and apparatus terminals.

(h) IS 13010-2002: AC Watt-hour meter

(j) IS -8530: Maximum demand meters

(k) IS 13703 (Part-I to IV): Low voltage fuses

(l) IS 5: Colour Shades

(m) IS 3072- Code of practice for installation and maintenance of switchgear and control gear.

(n) IS-10118: Code of Practice for selection, installation and maintenance of Switchgear & Control gear.

(o) CEA Regulations-2010: For electrical work.

(p) The Electricity Act-2003: For electrical work.

(q) IS 3043- Code of Practice for Earthing System

1.20. Legend: "LT POWER CONTROL CENTRE" shall be provided at the top centre.

2.0. PANEL COMPARTMENTS / SECTIONS:

2.1. The overall dimensions of the LT Panel shall not exceed 1600mm (L) x 650mm (B) x 1700mm (H)(+/-20%).

The panel shall broadly have the following compartments / sections.

A) Incomer section

B) Bus chamber

C) Outgoing section

D) Cable chamber / cable alley

2.2. Incomer Section: 2 no. 800 Amps, Icu 50KA, 4 Pole Moulded Case Circuit Breaker (MCCB) with inbuilt Microprocessor based Short -circuit, Over current and Earth Fault Releases, 230 V AC Shunt Trip features housed in a sheet steel enclosure and as specified in clause 2.5. Legend of the Section shall be marked as "INCOMER".

The incomer units shall be complete with brought out terminals of suitable rating and single compression cable gland suitable for 2 nos.x 3½ C x 240 mm², PVCA, Al cable provided on the bottom detachable gland plate. Suitably rated tinned copper lugs for all incoming cable

connections shall be supplied with the brought out terminals.

Incoming feeder Instruments

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

1. Multifunction Energy Meter: Panel mounted 3 phase 4 wire digital multifunctional meter having feature of reading maximum, minimum and average value, accuracy class 0.5 suitable for Balanced/ Unbalanced load, conforming to relevant IS with LCD (Back-Lit) display, to be provided/installed on the incomer feeder to record minimum following parameters:

- (i) Active/Reactive/Apparent Power
- (ii) Active /Reactive/Apparent Energy
- (iii) Frequency
- (iv) Line Current
- (v) Power Factor
- (vi) Phase Voltage
- (vii) THD
- (viii) KVA demand.

Make: Make of the multifunctional meter shall be Conzerv/ HPL

2. Ammeter/Voltmeter: The incomer feeder shall be provided with one no. three phase digital ammeter, one no. three phase digital voltmeter . Voltage range: 0-500V, current Range: 0-1000 A, SIF-96, class of accuracy 0.5, CT operated. Control voltage for digital meters shall be 230V ac. Make- Conzerv/ HPL.

3. Current transformer: Current transformers shall be of 800/5, 15VA, class-1 conforming to IS-2705 .Make: AE/Kappa.

4 .Indication Lamps: Three nos., coloured (Red, Yellow, Blue) LED indication bulb for indicate the availability of 3 phase power and #Breaker# OFF/ON/Trip indication bulb for status of the MCCB.

Designation name plate (for identification) of all individual indication bulbs shall also be provided.

Make of LED indication lamp: Binay/Teknic/Siemens.

5. Fuse Holders: Moulded HRC Fuse Holders shall be of SM type of suitable fuse rating as per circuit load.

2.3 Bus chamber: The bus-bar chamber shall be designed for 3 phase, 4 wire, 415 Volts, 50 Hz with earthing system. Bus-bar shall be of Electrolytic grade, high conductivity, Aluminium alloy bus bar, rectangular shape, 1000A rating and alloy grade/temper designation of 63401-WP conforming to IS: 5082-1998 with latest amendments. Bus bar short circuit withstands capacity: 80 KA for 1 Second duration: 65 KA for 3 Seconds duration. Conditional short circuit withstand capacity at rated voltage shall be 50 KARMS @ 415V. The bus bar shall be supported on insulators at required intervals on non-hygroscopic and non-inflammable SMC/FRP materials for incomer/mains/ neutral bus bar. Earth bus bar should also be of appropriate, size as per applicable standards. The Aluminium Bus bar for sub-mains /outgoing circuits should be of appropriate size according to the capacity of MCCB. The minimum clearance between phase to phase, phase to neutral & electrical clearance in between bus bars and cubicle shall be in accordance to applicable IS specifications. All the bus bars in the panel shall be duly insulated with PVC /heat shrinkable sleeves of superior quality with Colour coding of RYB for phase indicators as well as Black for

neutral in uniformity.

2.4 Outgoing Feeders section: Outgoing feeders shall have double door construction and PVC coated bus bar to ensure better insulation. Feeders are to be designed in compliance with relevant IS standards with flexible load distribution options, easy access for Neutral & phase bar, generous cable alley for comfortable and neat cable routing, shrouded terminals for better protection, fixed inner door and lockable type outer door provisions.

The LT panel shall have the following outgoing feeders:

2.4.1. Four (4) nos. of outgoing feeders of 400Amps, 4 pole, Moulded Case Circuit Breaker and two(2) nos. of 200 Amps, 4 pole, Moulded Case Circuit Breaker.

2.4.2 MCCB shall be of Icu 36 KA, 4 Pole, with inbuilt Microprocessor based Short -circuit, Over current and Earth Fault Releases, 230 V AC Shunt Trip features housed in a sheet steel enclosure and as specified in clause 2.5.

2.4.3 Suitable HRC fuse be incorporated in between the Bus-bar and MCCB in the outgoing feeder for isolation of the MCCB.

2.4.4 Ammeters: Each outgoing feeder shall have one no. 3 phase digital ammeter to show the total load current of the feeder. Make-AE/Conzerv/HPL

2.4.5 Current Transformer: Ratio of the current transformer shall be 400/300/5,15 VA, Class-1 conforming to IS 2705. Make- Kappa/AE

2.4.6 Each outgoing feeder shall be provided with LED indication lamps showing ON/OFF status of the MCCB. Make of LED indication lamp: Binay/Teknic/Siemens

2.5 Cable Chamber /Cable Alley: Cable Alleys shall be provided with suitable hinged doors. It shall be possible to carryout maintenance work on cable connections to any circuit with the bus bars of adjacent circuit live. Adequate number of slotted cable support shall be provided for cleaving the LT power cable. After isolation of power and control circuits connections, it shall be possible to safely carryout maintenance in a compartment with the bus bar and adjacent circuits live. Necessary shrouding arrangement shall be provided for this purpose over the cable terminations located in cable alley.

2.6 MCCB FEATURES :

2.6.1 Protection: Microprocessor based protection releases with ON/OFF feature for each protection mode. True RMS sensing, accurate protection high repeat accuracy, reliability Flexibility through multiple adjustments of protection settings, versatility & closer protection .Time delays on LT, ST & EF, suitability for discrimination and co-ordination, LCD display, reliable human machine interface. Trip history stores last five trips with causes of system diagnosis. Trip current indication to better understanding of type of fault. Set-up programming and tripping curve parameters can be viewed, changed and stored for further operation, Status indication is to gives the current status of the breaker "OK", "pickup" or "tripped". Ammeter displays the individual rms phase currents and locking arrangement to prevent unauthorized setting and access. The microprocessor based release provides overload, short circuit and earth fault protection, thermal memory as standard features.

2.6.2 Setting Ranges:

Overload pickup current: $0.4 - 1.1 \times I_n$ in steps of 0.1

Overload trip time (sec): 0.2, 0.5, 1, 1.5, 2, and 3

Short circuit pickup current: $2 - 10 \times I_r$ in steps of 1

Short time delay (sec): 0.02, 0.05, 0.1, 0.2, 0.3

Instantaneous pickup: $2 - 10 \times I_r$ in steps of 1 Ground fault pickup: $0.2 - 0.8 \times I_n$ in steps of 0.1

Ground fault time delay (sec): 0.1-0.8 in steps of 0.1

2.6.3 Flexibility: Continuously adjustable overload, short circuit and earth fault settings.

2.6.4 Micro Processor Release: advanced protection, ammeter, trip history, LCD display.

2.6.5 Accessories: Door drive with Padlocking, Door interlocking and Defeat facility, Shunt release, Phase Barriers, Terminal shrouds, Rotary Handle Operating Mechanism. Suitable brought terminal shall be provided for termination of 240 sqmm PVCA aluminium cable.

2.6.6 Testing: Test socket for field testing of MCCB online is a standard feature.

2.6.7 Application: Suitability for Backup Protection,

2.6.8 Standards: MCCB shall conform to and type tested as per IS 13947-2. The housing is made of DMC which has high arc and thermal withstand, resistance to tracking and mechanical strength.

2.6.9 Testing: A push to trip button is provided on the front to test the MCCB mechanically. MCCB are also provided with a test socket for testing online at site. With the use of a portable test kit the healthiness of the MCCB can be easily verified even when it is in service and mounted in the panel.

2.6.10 Door Drives: MCCB shall be with door drives. It has an "OFF" position placed at 9 'O# clock and the "ON" position at 12 'O# clock. The third position "TRIP" is located between the "ON" and the "OFF" position. The door drive shall mount front side of panel and it should provide IP 54 protection. The door drive takes care of the uniformity in the position of the handle on the panel door when MCCB is mounted upside down. The operating rotary handle ensures that irrespective of the mounting of MCCB, the quadrant of operation of the handle remains same. These door drives provide door interlock facility in the "ON" position, so that the panel cannot be open at ON position, besides providing padlock facility to lock the MCCB in "OFF" position.

2.6.11 Make of MCCB: GE/Merlin Gerin /Legrand/Schneider India/Siemens/L&T

3.0. FINISH OF LT DISTRIBUTION KIOSK:

3.1. The entire metal work shall be treated with ten tank chemical and mechanical cleaning process as antirust treatment before final paint. Paint shall be powder coated in DA Grey (ISC 632 as per IS 5) colour.

3.2. All other metal parts used in the LT DISTRIBUTION KIOSK#s shall be treated as under. M.S. parts such as Bolts& Nuts, washers etc.: Electro galvanizing of Zinc except for bus bar & links.

4.0. SAFETY ARRANGEMENTS: Two earthing studs of galvanized M.S. 50x12 mm shall be provided for external earth and internal neutral connections. These should be complete with plain washer, spring washer, nuts etc. Earthing studs must be welded to prevent removal of the same from the LT DISTRIBUTION KIOSK.

5.0. DRAWINGS:

For Approval: After receipt of the order, the successful bidder will be required to furnish three prints each of the following drawings for approval:

- (i) Complete assembly drawing of AC Distribution Boards, showing plan, elevation, sectional views and location of terminal blocks, cable entry details.
- (ii) Control and wiring diagram of the LT Distribution Board including all spare terminals.
- (iii) Foundation plan showing location of channels, sills, foundation bolts etc.
- (iv) Schematic control diagram for control, instruments etc.
- (v) MCCB#s characteristics curve for each type and its rating.
- (vi) Fuse characteristics curve for each type & rating.
- (vii) All main dimensions together with the assembly drawings, as well as front view of the panels.
- (viii) Item list of all used equipment showing designation, manufacturer and type of equipment (together with the wiring diagram).

(ix) List of name plates.

SUPPLY WITH THE PANEL: 7 Sets of approved drawings both in hard copy and soft copy shall be submitted along with the delivery of the LT distribution Boards.

6.0. TESTS & TESTS CERTIFICATES: The routine and acceptance tests of MCCB as per relevant IS and this specification shall be carried out at the original manufacturer's works. In case of brought out items, such as Isolator, Link, Disconnecter etc. and the test certificates of original manufacturer shall be produced to the inspecting officer and shall be enclosed with the inspection report.

6.1 Routine Test: (carried out on LT DISTRIBUTION KIOSK's)

- (a) Overall dimensions checking
- (b) Insulation Resistance tests
- (c) High voltage test as per relevant IS.
- (d) Operation test on MCCB/ Link Disconnecter.

6.2. Acceptance Tests (On Complete LT Distribution Kiosk): Following tests shall be carried out as acceptance tests in addition to Routine Tests:

- (a) Insulation Resistance tests
- (b) Temperature rise test on one sample of each rating : Temperature rise test will be carried out on complete LT Distribution KIOSK with all equipment & accessories mounted inside as per provision of IS : 8623 , part # I -1977. This test shall be carried out on LT DISTRIBUTION KIOSK as well as MCCB & link Disconnecter Separately.
- (c) Time -Current Characteristics: With the stabilized temperature rise as per above the MCCB should be tested for time current characteristics at 1.05 & 1.3 times of overload release setting current and should pass the requirement given in this specification.
- (d) Millivolt drop Test: Millivolt (mv) drop test in MCCB, Bus-bar connections in the assembled panel and reports shall be submitted with the panel.
- (e) All Routine Tests as above.

6.3. TYPE TESTS:

(a) **ON COMPLETE LT DISTRIBUTION KIOSK**

- (i) Temperature rise test: The temperature rise test should be carried out as per IS: 8623-1993.
- (ii) High voltage test as per IS: 8623 amended up to date.

6.4 Short Time Withstand Current Test on distribution LT DISTRIBUTION KIOSK:-The LT DISTRIBUTION KIOSK should be subjected to Short Time Withstand Current Test.

- (iii) Degree of protection for IP-52 on complete unit.
- (iv) Time/current characteristic test
- (v) **ON MCCB:** All type test on MCCB as per IS-13947 amended upto date.

6.5. TEST CERTIFICATES :The LT DISTRIBUTION KIOSK and

MCCB offered shall be fully type tested as per relevant IS and this specification. The bidder must furnish type test reports along with bid as per the qualification requirement of the Tender Specification. The detailed type Test Reports shall be furnished with relevant oscillogram drawings and certified Drawing of the equipment tested.

6.0. TESTING & MANUFACTURING FACILITIES: The tenderer must clearly indicate what testing facilities are available in the works of manufacturer and whether the facilities are adequate to carry out all routine acceptance and type tests. The tenderer must have all the in-house testing facilities to carry out the acceptance tests on the LT DISTRIBUTION KIOSK. The tenderer should have following minimum manufacturing facilities in house to prove his reliability as a manufacturer of LT DISTRIBUTION KIOSKS and documentary evidence of the availability of services shall be submitted with the quotation.

- i) Power operated shearing machine

- ii) Power operated press brake.
- iii) Power operated power presses
- iv) Welding machines,
- v) Assembling tools
- vi) Continuous running powder coating plant.
- vii) Availability of Ten Tank sheet steel pre-treatment plant.
- viii) Pneumatic/Hydraulic busbar bending and punching machine
- ix) Evidence of availability of testing and calibration instruments (Insulation Tester, Primary Current Injection Test Kit, Secondary Current Injection Test Kit, High Voltage Test Kit, MV drop test Kit etc.) as per relevant IS standard.
- xi) Experience of manufacturing and supply of LT PCC/PMCC/Distribution Panels to Govt. PSU#s /Govt. Organisations.
- xii) Experience of testing, Installation & Commissioning of LT PCC/PMCC/Distribution Panels.

7.0. INSPECTION: All tests and inspection shall be made at the place of Manufacturer's works as per following:

- (a) The equipment shall be inspected by engineer(s) of OIL prior to dispatch.
- (b) All the routine and acceptance tests shall be carried out as per relevant IS, IEC and Tender specifications during inspection. The tests shall include accuracy of dimensions & circuitry as per approved drawings, insulation tests, mechanical & electrical operation tests, primary current injection tests etc. and any other tests specified in the tender specifications and relevant IS standards.
- (c) All necessary arrangements/facilities for tests shall be made by the vendor without charge at manufacturer's works during the inspection/testing.
- (d) OIL reserves the right to reject any of the items which are found not satisfying the relevant standards/specifications during inspection/testing.
- (e) All the equipment used in testing shall be calibrated from NABL accredited test lab & shall not be more than one year old.

8.0 Tools and Commissioning & Operating Spares:

(a) The bidder shall mention the list of specialized maintenance tools necessary for maintenance of the offered panel and offer shall be inclusive of those listed tools. Offered maintenance tool box shall contain the following minimum tools:

- (i) Flat and Philips head Screw Driver Sets
- (ii) Wrench Set
- (iii) Nut Drivers
- (iv) Hex Keys set
- (v) Socket Set
- (vi) Nose Plier
- (vii) Wire stripper
- (viii) Crescent/Slide Wrench
- (ix) Portable drill machine, up to 10 mm.

(b) Items/spares required for commissioning of the panel shall be arranged and supplied by the bidder.

(c) The bidder shall mention the list of minimum operating spares requirement for operating the panel for 2 years period and offer shall be inclusive of those listed spares.

9.0 Warrantee/Guarantee: The supplier shall guarantee the equipment for a period of 18 months from the date of supply or 12 (twelve) months from the date of commissioning against defects arising from faulty design, material and workmanship.

NOTE:

1. Bidder to submit their offer of panel with schematic single line diagram, panel dimension details, MCCB's test certificates, literatures, bus bar type, rating etc.
2. Material shall be guaranteed for minimum one year period from the date of commissioning. Duly stamped Guarantee certificate should be supplied after commissioning the panel.
3. The Bidder shall have experience of supply, installation, testing & commissioning of same type of panel of minimum 1 No. in any Central Govt/ State Govt/ PSUs in last five year from bid due date.
4. Offer shall be complete in all respect to meet the technical specifications and general notes of the NIT.
5. Bidder shall be panel manufacturer/channel partner /authorized dealer of 415 V AC PCC panels/switchboards manufacturer. In case of bidder offering on behalf of OEM, the bidder shall submit copy of valid dealership certificate/authorization letter from the OEM along with the offer.
6. OEM shall have experience of design, manufacturing, testing, supply,

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

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.

ANNEXURE - GGG

**(TO BE FILLED UP BY ALL THE VENDOR IN THEIR OWN LETTER HEAD)
(ALL FIELDS ARE MANDATORY)**

Tender No. :.....
Name of Beneficiary :M/s.....
Vendor Code :.....
Address :.....
.....
Phone No. (Land Line) :.....
Mobile No. :.....
E-mail address :.....
Bank Account No. (Minimum
Eleven Digit No.) :.....
Bank Name :.....
Branch :.....
Complete Address of your
Bank :.....
IFSC Code of your Bank
a) RTGS :.....
b) NEFT :.....
PAN :.....
VAT Registration No. :.....
CST Registration No. :.....
Service Tax Registration No. :.....
Provident Fund Registration :.....

I/We confirm and agree that all payments due to me/us from Oil India Limited can be remitted to our above mentioned account directly and we shall not hold Oil India Limited responsible if the amount due from Oil India Limited is remitted to wrong account due to incorrect details furnished by us.

Office Seal

.....
Signature of Vendor

Counter Signed by Banker:
Seal of Bank:

Enclosure: Self attested photocopies of the following documents-

- 1) PAN Card
- 2) VAT Registration Certificate
- 3) Service Tax Registration
- 4) CST Registration
- 5) Provident Registration Certificate
- 6) Cancelled cheque of the bank account mentioned above (in original).
- 7) Bank Statement not older than 15 days on the date of submission.