OIL INDIA LIMITED
(A Govt. of India Enterprise)
Rajasthan Project, Jodhpur – 342005, Rajasthan

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Tender No. & Date : SJI3620P17 Dated 21.01.2017

Tender Fee : INR 1,000/-

Bid Security Amount : INR 48,000/-

Bid Validity : Bid should be valid for 90 days from bid closing date.

Bid Bond Validity : Bid Bond should be valid upto 31.08.2017
(Bid bond format has been changed. Please submit bid bond as per revised format failing which offer will be rejected)

Bidding Type : SINGLE STAGE COMPOSITE BID SYSTEM

Bid Closing on : As mentioned in e-portal

Technical Bid Opening on : As mentioned in e-portal

Performance Guarantee : Applicable @ 10% of purchase order value.

Note: Against Tender Fee - Payment should be made only through online payment gateway and no other instrument (Cash/DD/Chequ'es/Cashier Cheque, etc.) will be acceptable.

Against Bid Security /EMD /Performance Bank Guarantee – Only payments through online gateway mode or Submission of Bank Guarantee/LC will be acceptable. No DD/Cheques/Cashier Cheque or any other mode will be acceptable.

OIL INDIA LIMITED invites Indigenous Tenders for items detailed below:

Item No./Mat. Code	Material Description	QTY.	UOM
10 0C000404	LT PANEL	1	NO
	Installation & Commissioning of LT PANEL	1	AU
20 0C000404	PANEL APFC	1	NO
	Installation & Commissioning of PANEL APFC	1	AU
30 0C000404	POWER DISTRIBUTION BOARD	1	NO

Brief Description of above requirement :

1.0 Design, fabrication, loading, transportation, unloading, installation, testing & commissioning of

(i) 1 (One) no. 3 phase, TPN, 415V L.T. panel &

(ii) 1 (One) no. APFC panel complete with all accessories for efficient and trouble free operation

2.0 Design, fabrication, loading, transportation, unloading of 1 (One) no. Distribution board.

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Special Notes :

1.0 In addition to the current document the tender will be governed by "General Terms & Conditions" for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-procurement (LCB Tenders)" uploaded along with the tender.

2.0 The prescribed Bid Forms for submission of bids are available in the tender document folder. Technical Bid Checklist: Annexure-EEE, Response Entry Sheet : Annexure-FFF and Bank Details : Annexure-GGG must be filled-up and submitted along with the technical bid.

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 **The Chief Manager (M&C), Materials & Contracts Department, Oil India Limited, Rajasthan Project, 2A-Saraswati Nagar, Basni, Jodhpur - 342005, Rajasthan** on or before **11:00 Hrs (IST)** on the Bid Closing Date mentioned in the Tender.

a) **Original Bid Security .**
b) **Details Catalogue and any other document which have been specified to be submitted in original.**

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

5.0 Other terms and conditions of the tender shall be as per "General Terms & Conditions" for e- Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-procurement (LCB Tenders) and its amendments. However, if any of the Clauses of the Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-procurement (ICB Tenders) of the tender and/or elsewhere, those mentioned in this BEC shall prevail.

6.0 **GUIDELINES FOR PARTICIPATING IN OIL'S E-PROCUREMENT:**

6.1 To participate in OIL's E-procurement tender, bidders should have a legally valid digital certificate **of Class 3 with Organizations Name** as per Indian IT Act from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India (http://www.cca.gov.in). **Digital Signature Certificates having "Organization Name" field as "Personal" are not acceptable**.

6.2 Bidders must have a valid User ID to access OIL e-Procurement site for submission of bid. Vendors having User ID & password can purchase bid documents **on-line through OIL's electronic Payment Gateway**. New vendor shall obtain User ID & password through online vendor registration system in e-portal and can purchase bid documents subsequently in the similar manner.
Tender Fee (Non-refundable) of INR 1,000.00 Payment should be made only through online payment gateway and no other instrument (Cash/DD/Chequ'es/Cashier Cheque, etc.) will be acceptable.Tender fee shall be accepted only upto one week prior to Bid Closing date (as mentioned in e-portal).

For participating in Oil India limited e-tenders, all new vendors must get themselves enlisted in Oil India e-portal. Please go to the url: https://etender.srm.oilindia.in/irj/portal and go to the link Supplier Enlistment for E-Tender. For, the detailed procedure for payments towards 'Tender Fee' and 'Bid Security /EMD' through 'Payment Gateway', please refer the manual.

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 also been provided through OIL's web site www.oil-india.com.

PSUs and SSI units are provided USER_ID and initial PASSWORD Free of Cost (as per govt guidelines), however they have to obtain USER_ID and initial PASSWORD as mentioned above and apply to OIL's designated office before the last date of receipt of tender fee (as mentioned in e-portal).

6.3 Parties shall be eligible for accessing the tender in E-portal after OIL enables them in the E-portal after receipt of the requisite cost of the bidding document.

7.0 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.

8.0All 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.

9.0 Bidder shall accept and comply with the following clauses as given in the Bid Document, failing which bid shall be liable for rejection:

i) Firm Price
ii) Bid Security
iii) Specifications / Scope of Work
iv) Price Schedule
v) Delivery Schedule
vi) Period of Bid Validity

vii) Liquidated Damages
viii) Performance Security
ix) Guarantee of material
x) Arbitration / Resolution of Dispute
xi) Force Majeure
xii) Applicable Laws

10.0 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 Bid Security amount lesser than the amount indicated in the Tender.

11.0 GENERAL NOTES :

(a) Any deviation(s) from the tender specification should be clearly highlighted specifying justification in support of deviation.

(b) Offers shall be complete in all respects and all the items/equipment as specified in the tender must be included in the package. Offers deemed to be incomplete shall be liable for outright rejection.

(c) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BEC also and such clarifications fulfilling the BEC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

12.0 PURCHASE PREFERENCE : Purchase Preference will be applicable as per latest Govt. Guidelines. Bidders to take note of the same and quote accordingly. It is the bidder's responsibility to submit necessary documents from the Competent Authority to establish that they are eligible for purchase preference against this tender.

13.0 PRICE PREFERENCE : Price Preference will be applicable as per latest Govt. Guidelines. Bidders to take note of the same and quote accordingly. It is the bidder's responsibility to submit necessary documents from the Competent Authority to establish that they are eligible for price preference against this tender.

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Scope of Work

A] Design, fabrication, loading, transportation, unloading, installation, testing & commissioning of 1 (One) no. 3 phase, TPN, 415V, non draw-out type L.T. panel with Aluminium bus bars, indoor type, free standing & floor mounted type, extendable on either side complete with all accessories for efficient and trouble free operation at OIL's Dandewala Gas Processing Plant, Dandewala in Jaisalmer district of Rajasthan.

B] Design, fabrication, loading, transportation, unloading, installation, testing & commissioning of 1 (One) no. Automatic Power Factor Controller panel cubicle pattern, indoor type, free standing & floor mounted, dead front type, sheet steel clad sufficiently ventilated suitable for 440 Volts, 3 phase 50 Hz Ac supply system with Aluminium bus bars, complete with all accessories for efficient and trouble free operation at OIL's Tanot Village Complex, Tanot in Jaisalmer district of Rajasthan.

C] Design, fabrication, loading, transportation, unloading of 1 (One) no. Distribution Board cubicle pattern, outdoor type, free standing on MS frame, dead front type, sheet steel clad sufficiently ventilated suitable for 440 Volts, 3 phase 50 Hz & 230 Volts single phase 50 Hz Ac supply system with Aluminium bus bars, complete with all accessories for efficient and trouble free operation at OIL's Tanot Village Complex, Tanot in Jaisalmer district of Rajasthan.

Note for (A):

• The proposed LT panel would replace the existing panel in operation. Size of the existing panel is: Height: 2520 mm, Width: 3800 mm, Depth: 500 mm.
• Removal of the existing LT panel would be under the scope of the bidder.
• All the existing power cables shall be put to re-use with the proposed LT panel.
• Panel shall be fabricated in parts suitably to facilitate entry into the existing LT panel room though the existing doors and integrating back to a single panel inside the LT panel room.
• Panel shall be installed on top of the existing concrete cable trench replacing the old panel.
• The prospective bidders may visit the site before quoting / bidding to asses the logistics.

Note for (B):

• The proposed APFC panel would replace the existing panel in operation. Size of the existing panel is: Height: 1800 mm, Width: 1200 mm, Depth: 500 mm
• Removal of the existing APFC panel would be under the scope of the bidder.

Note for (C):
• The proposed Distribution Board shall be supplied by the bidder only. Size of the Distribution shall be (minimum) : Height: 1000 mm, Width: 750 mm, Depth: 400 mm

Location of Work

For Item [A]
OIL's Dandewala Gas Processing Plant, Dandewala in Jaisalmer district of Rajasthan.

For Item [B] & [C]
OIL's Tanot Village Complex, Tanot in Jaisalmer district of Rajasthan.

ITEM NOTES:

1.0 LT panel shall be installed and commissioned by the bidder at designated location of OIL as per instruction and as listed in the tender.

2.0 Boarding, lodging and transportation of commissioning personnel will be in the scope of the bidder.

3.0 Bidder shall quote commissioning charges separately.

4.0 All necessary manpower, tools and tackles, instruments etc. required for commissioning shall be in the scope of the bidder.
Prospective bidders may visit the installations at their own cost before placing bids. OIL may be intimated beforehand.

5.0 The following documents shall be submitted with the bid for scrutiny:
i) Confirmation that the offered LT panel shall conform to all the points of the tender. Any deviation from the tender specifications must be clearly mentioned with technical justifications.
ii) Copy of test certificate for panels with Degree of Protection IP: 54 from CPRI or any govt. approved NABL accredited test laboratory
iii) Indicative general arrangement and layout drawing of the panel
iv) Indicative schematic and single line diagrams of the panel
v) Credentials of bidder having minimum 05 (five) years (till the bid closing date) experience in design, fabrication and testing of LT PMCC Electrical Panels with ACBs and MCCBs. During these years bidder should have manufactured and supplied minimum 5 (five) nos. of panels to Govt./semi-govt./PSUs/public limited companies. These panels must be in operation satisfactorily as on date and credentials shall be submitted for the same.
vi) Credentials of Bidder having minimum seven tank anti rust treatment system and powder coating facility for treatment and painting of sheet metal works for durability.
In the event of an order, successful bidder shall submit fresh sets of detailed drawings (as mentioned above) within one month of placement of order which shall be approved by OIL before actual assembly/ manufacturing of the panels.

6.0 Offered panels must be new and in unused condition. No reconstructed/ rebuilt panels will be acceptable.

7.0 Components used in the PMCC panels shall be of makes (as given in the detailed description) and easily available. Bidder shall submit Bill of Materials (including any additional item to the item list given in the detailed description, if considered essential).

8.0 Bidder shall mention any deviations or other items/ points not indicated /included in the specifications but deemed necessary for design, Installation and commissioning, efficient control and operation of the PMCC panels. However proper justification for deviation must be given.

9.0 OIL representatives shall carry out stage inspection during panel fabrication & pre-despatch inspection of panel and witness all necessary testing at manufacturer's works. To and fro charges of OIL's personnel to manufacturer's works will be to OIL's account.

10.0 Routine Test certificates/reports for the LT panel carried out at manufacturer's works as per relevant IS shall be submitted at the time of final inspection by OIL's representative failing which despatch clearance will not be given.

11.0 LT panel shall be guaranteed for 12 (twelve) months from the date of commissioning.

12.0 Successful bidder shall submit "As-Built" drawings [4 (Four) copies] for the LT panel (after final assembly and commissioning at site) before handing over the same to OIL. In addition, supplier shall also submit technical brochures & operation and maintenance manuals of all items used in the panels.

13.0 Packing shall be done properly to avoid transit damage and water/ moisture ingress.

ITEM DESCRIPTION:

GENERAL DESCRIPTION FOR [A]: LT panel for DND-GPC

1.0 Construction:
1.1 The panel shall be metal-enclosed, free-standing, self-supporting, compartmentalized, modular / cubicle type and floor mounted with integral base channel suitable for indoor installation. The panel shall be industrial type, dust and vermin proof.

1.2 Panel and its components shall be conforming to IS: 8623, 8828, 13947 and 12640 & IEC: 60947 & 60439-1. Protection shall be as per IP-54. Ambient-50°C (Max)/ 2°C (Min), Humidity-30% (Max).

1.3 All components used must be suitable for the environment as mentioned. All hardware should be of high tensile steel & galvanised/ Zinc passivated. Size of spring washers & flat washers should be as per relevant IS for individual bolt.

1.4 The panel shall be fabricated out of 2 mm thick CRCA sheet steel & properly supported using angles & channels as required. The compartments shall be divided & arranged into convenient continuous line. The panel as a single unit shall be mounted on a base frame made out of suitable structure, preferably ISMC Channels. Lifting lugs shall be provided on the top of panel.
1.5 The main busbar (3 phase & neutral) shall be horizontally placed on the top horizontal chamber. The size of the neutral busbar shall be of same size as the phase bus bars. Vertical bus bar arrangement shall be provided for feeding power

to feeder panels / compartments. The panel shall be provided with suitable cable alley with gland plates at the bottom.

1.6 The Isolators, MCCBs, MCBs, contactors, capacitors, instruments, auxiliary equipments as well as cable terminations for the feeders shall be accessible from the front. The Panel shall be fully compartmentalised with all doors on the front only. Power incoming cables may however be accessible from backside. Busbar and cable alley shall be shrouded by insulating barrier plates.

1.7 Cable entries for all power cables (both incomers & outgoing feeders) & instrumentation cables if any must be at the bottom of the panel with suitable removable gland plates. Gland plates shall be 2 mm thick cold rolled steel plates.

1.8 The cable alley chamber(s) shall have suitable supporting arrangement for holding the cables in place avoiding weight / torque on the cable terminations.

1.9 The vertical & horizontal metallic sheets to be used as separators / for installation of MCCBs & other devices shall be of 2 mm thickness. The horizontal separators may be removable type screwed to the lugs projecting from the main body / structure of the panel. Each chamber shall be provided with a hinged type door opening away from the cable alley & shall be provided with black flower type thumb screw which shall ensure tight closing. The edges of the doors shall be provided with a neoprene rubber gasket to make the compartment dust-proof. All retaining catches, screws & bolts for doors & covers shall be cadmium plated.

1.10 Compartment doors shall be inter-locked with the switch unit (isolators or MCCBs) in such a way that the door cannot be opened when the feeder / starter pane is ON. The door of the busbar chamber shall be fully removable type & not hinged.

1.11 Equipment to be mounted outside cubicles shall be flush mounted on cubicle door. No externally mounted equipment shall be mounted above 2.0m or below 0.4m above floor level.

1.12 All similar materials and removable parts of the panel shall be interchangeable. The panel shall be filled with the same family of switches for various ratings with a view to ensure uniformly of design, maintenance and replacements.

1.13 A horizontal wire way with screwed cover shall be provided at the top/bottom to take inter-connecting control wiring between different vertical sections. Compartments shall be provided for accommodating instruments, indicating lamps, control contractors and control fuses etc. These shall be accessible for testing and maintenance without any danger of accidental contact with live parts of the circuit breaker busbar connections.

1.14 The panel shall be thoroughly cleaned and chemically pre-treated for rust/grease removal and phosphate coating in a minimum seven tank chemical treatment process. After chemical treatment, the panel shall be powder coated/polished with epoxy resin based powder and stoved in a stoving oven. Coating (dry film) thickness shall be 50 micron minimum as per IS: 13871-2006. Finish shall be glossy.
Colour of the panel shall be Siemens Grey (shade RAL 7032).

1.15 The complete panel shall be mounted on a 75x40x6 mm channel with suitable grouting arrangement.

1.16 The panel shall be divided into the following compartments:
• The busbar chamber shall be provided at the top of the panel horizontally throughout the length. There shall be 3 nos. of phase busbar and 1 no neutral busbar. 1 no earthing busbar shall be installed at the bottom of the panel. Busbars shall be fully screened by means of coloured PVC sleeves (Red, Yellow, Blue & Black) in accordance with IS-375 & run throughout the length of the chamber and shall be of extendable type on either side. The neutral bar shall be of same size as the phase bars.
• Busbar shall be of high conductivity Aluminium with current density of 800A per Inch2 and shall have specified capacity suitable for fault level of 30 MVA. Capacity of the busbars min 800 Amps
• The busbar shall be properly segregated, suitably braced with insulated supports (DMCFRP/SMC) placed at appropriate intervals to withstand the electromagnetic & electrical stresses, minimum electrical clearance shall be maintained between phase, neutral and body as per standards.

2.0 INCOMERS:

2.1 General:
a) There would be two incomers with MCCBs. One for state DISCOM supply & the other for the output from a changeover switch downstream of which two DG sets are connected.
b) Rating of the MCCBs shall be 415 V, 4 pole, 300 Amps.
c) MCCBs shall be 4 polar complete in all respect having the following minimum requirements.
i) Both the MCCBs (incomers) shall have Electrical & Mechanical interlock such that only 1 (One) MCCB would be put to line/load at any particular time. Additionally, 'Pad Locking' facility shall be there.
ii) Both the MCCBs shall have to trip on E/F, O/C, S/C, Earth leakage & under voltage.
iii) Analogue / Digital meter(s) for monitoring Voltage, Current, Frequency, Power factor, Power and Energy be flush type mounted front door on the MCCB/Incomer chamber. Voltage Selector switch (VSS) & Current Selector switch (ASS) also shall have to be incorporated suitably.
iv) Following indicating lamps shall be incorporated on the front door of the MCCB/Incomer chamber:
• 3 nos indicating lamps for 3 phase power supply,
• MCCB ON
• MCCB OFF
• MCCB TRIP
• MCCB TRIPPED on Erath Leakage.

2.2 Scheme for earth leakage trip shall be incorporated in the MCCB tripping circuit with CBCT & ELR so that the MCCBs would trip on Earth Leakage to be initiated by CBCT & ELR scheme.
2.3 The MCCBs shall have to trip on Earth Leakage to be initiated from the existing Neutral Grounding Resistance (NGR) system also which is in operation at site.

2.4 The current transformer for the ammeter circuit shall be mounted on the fixed portion of the compartment.

2.5 Space heaters shall be provided inside the panel.

2.6 Energy meters shall be incorporated at the incomers.

2.7 Each MCCB (Incomer) shall be provided with 1 (One) set of spare Auxilliary contacts comprising 1 No. 'NC' & 1 No. 'NO' contacts.

3.0 Feeders / Spare feeders:

3.1 All the feeder & the spare feeder compartments shall be equipped with Isolator, Fuse, contactor, control fuses, over load relay, CBCT ELR, outgoing terminals (4 wire) with suitably sized aluminium bar having cable termination facilities. Flush type Analogue ammeters shall be installed at the front door of the compartment.

3.2 Scheme for Feeders shall also include tripping / isolation of power on initiating tripping by push buttons from the motors at field (local control station).

3.3 Rating & selection of the isolators, fuses, contactors etc. for each feeder panel shall be suitably co-ordinated.

3.4 Number of feeders with rating / capacity shall be as under:
a) 80 Amps capacity - 2 (Two) nos.
b) 63 Amps capacity - 2 (Two) nos.
c) 25 Amps capacity - 6 (Six) nos.

4.0 DOL Starters:
4.1 All the DOL starter compartments shall be equipped with Isolator, Fuse, contactor, over load relay, control fuses, CBCT ELR, outgoing terminals with suitably sized aluminium bar having cable termination facilities. Flush type Analogue ammeters shall be installed at the front door of the compartment.

4.2 Scheme for Feeders shall also include tripping / isolation of power on initiating tripping by push buttons from the motors at field (local control station).

4.3 Rating & selection of the isolators, fuses, contactors, O/L relay etc. for each feeder panel shall be suitably co-ordinated.

4.4 Number of DOL starters with rating / capacity shall be as under:
a) 5.5 kW capacity - 4 (Four) nos.
b) 1.1 kW capacity - 8 (Eight) nos.

5.0 Star Delta Starters:

5.1 All the star delta starter compartments shall be equipped with Isolator, Fuse, contactors, over load relay, CBCT ELR, single phase preventer, timers, outgoing terminals with suitably sized aluminium bar having cable termination facilities. Flush type Analogue ammeters shall be installed at the front door of the compartment.

5.2 Scheme for Feeders shall also include tripping / isolation of power on initiating tripping by push buttons from the motors at field (local control station).

5.3 Rating & selection of the isolators, fuses, contactors etc. for each feeder panel shall be suitably co-ordinated.

5.4 Number of star delta starters with rating / capacity shall be as under:
a) 30 kW capacity - 2 (Two) nos.

6.0 Automatic power factor control (APFC) compartment:
a) Dedicated compartment shall be suitably incorporated in the LT panel for installation of capacitors meant for power factor correction.
b) The APFC panel / compartment shall have suitably sized MCCB, APFC relay, contactors for each capacitor, ON / OFF indicating lamps, ON / OFF push buttons.
c) The capacitances of the capacitors shall be as under:
• 20 kVAR – 1 No.
• 10 kVAR – 2 Nos.
• 5 kVAR – 2 Nos.
d) Scheme shall be designed to operate the APFC panel both in ÁUTO'& 'Manual' mode.

7.0 THERMAL OVER LOAD RELAYs (fro FEEDERs):
Thermal over load relay shall be 3 element positive acting, ambient temperature compensated type with adjustable setting range, over load relay shall be manually reset type with reset push button on the front of the panel reset P/Button shall be capable of being operated with out opening the compartment door.

8.0 INDICATING METERS:

All measuring instrument shall be square pattern & 144 mm2 in size for incomers & 96 mm2 for the outing feeders & starter panels. All the meters shall be of class-1 accuracy. They shall be industrials grade and shall have means of zero adjustment from the front without dismantling them. They shall be capable of carrying the normal full load current (via CTs) and shall not be damaged by effects of rated fault current .the instrument shall have an accuracy class of 1.0 as per IS:1248 .
Energy meters shall be 3 element & switchboard mounting type suitable for unbalanced load. Current transforms shall be encapsulated /resin cast type, with 15va burden & class 1 accuracy. All the CT's shall be provided with CT shorting links.

9.0 INTERNAL WIRING :

9.1 Panel shall be supplied with all internal wiring comprising of PVC insulated 1.1 kv grade, multi strand flexible copper conductor of 2.5 sq mm cross section.
9.2 Wiring associated with a particular phase shall be the colour of that phase viz Red/yellow/blue. Wiring associated with earthing shall be with green colour insulation and for neutral it shall be with black colour insulation.
9.3 Wiring shall be neatly laid and run on insulated cleats of limited compression type insulated straps.

9.4 All cables shall have crimped terminations and shall be identified by means of glossy plastic ferules at both ends showing the wire numbers as indicated in the schematic diagrams. The ferrules shall be indelibly marked.
9.5 Wiring to items mounted on hinged doors or wiring that is subject to movement.
9.6 Shall run in helical binding the binding shall be securely anchored at both ends and sufficient slack provided to prevent any strain being imposed on wiring.

10.0 TERMINALS BLOCK :
10.1 Terminal blocks shall preferably be grouped according to circuit functions and each terminal block group shall have at least 10% spare terminals. Terminal blocks for control circuit shall be of 650V grade with contact ratings not less than 10A and stud/clamp type.
10.2 Not more than two wires shall be connected to any terminal block.

11.0 INTERCONNECTION
11.1 The interconnections of all the phases between the busbars and the incoming side of the switch control shall be inaccessible when the doors of the controls are opened for removal of fuses etc.
11.2 For each and every tapping from the busbars, separate connections shall be made.
11.3 No direct tapping from the busbar shall be made for any feeder without control and protection.
11.4 The incoming and outgoing cable shall be properly identified and also the circuit to which it is connected on each outlet.

12.0 EARTHING
12.1 All the metal parts of all equipment supplied within the panel (including doors and gland plates) other than those forming part of all electric circuit, shall be connected by means of two independent earth conductors to continuous earth bar of size 50X5 mm running along the full length of the panel.
12.2 The panel shall be provided with two brass earthing stud terminals, with suitable nuts, washers etc. for connection to ground bus.

13.0 LABELS
13.1 Labels with inscriptions shall be provided for each compartment, instrument, components mounted internally and externally to describe the duty of or otherwise for identification purpose. Switch positions shall be fully identified. Wording shall be clear, concise and unambiguous.
13.2 Each label shall be permanently secured to the panel surface below the item to which it refers.
13.3 The labels shall be engraved (4 mm thick) with white letters in black background.
13.4 In addition to component labels, each cubicle door shall bear a large identification labels and the panel shall include large, prominent overall identification label.
13.5 'Danger / Caution board shall be fixed on the panel at suitable distinct places.

14.0 Installation & commissioning:
Replacement of Cable glands, Cable terminating lugs & cable re-connection, Earthing strip connection during installation & commissioning of the panel are to be carried out by the bidder.

TECHNICAL SPECIFICATION FOR [B], the APFC panel of 200 kVAR capacity

The proposed APFC would replace the existing panel in operation. Size of the existing panel is: Height: 1800 mm, Width: 1200 mm, Depth: 500 mm
Construction:

1.1 The panel shall be metal-enclosed, free-standing, self-supporting, cubicle type and floor mounted with integral base channel suitable for indoor installation. The panel shall be industrial type, dust and vermin proof.
1.2 Panel and its components shall be conforming to IS: 8623, 8828, 13947 and 12640 & IEC: 60947 & 60439-1. Protection shall be as per IP-42. Ambient-50°C (Max)/ 2°C (Min), Humidity-30% (Max).

1.3 All components used must be suitable for the environment as mentioned. All hardware should be of high tensile steel & galvanised/ Zinc passivated. Size of spring washers & flat washers should be as per relevant IS for individual bolt.

1.4 The panel shall be fabricated out of 2 mm thick CRCA sheet steel & properly supported using angles & channels as required. The panel as a single unit shall be mounted on a base frame made out of suitable structure, preferably ISMC Channels. Lifting lugs shall be provided on the top of panel.

1.5 The panel shall be thoroughly cleaned and chemically pre-treated for rust/grease removal and phosphate coating in a minimum seven tank chemical treatment process. After chemical treatment, the panel shall be powder coated/polished with epoxy resin based powder and stoved in a stoving oven. Coating (dry film) thickness shall be 50 micron minimum as per IS: 13871-2006. Finish shall be glossy.
Colour of the panel shall be Siemens Grey (shade RAL 7032).

1.6 LT panel shall be guaranteed for 12 (twelve) months from the date of commissioning.

1.7 Successful bidder shall submit “As-Built” drawings [4 (Four) copies] for the APFC panel (after final assembly and commissioning at site) before handing over the same to OIL. In addition, supplier shall also submit technical brochures & operation and maintenance manuals of all items used in the panels.

The APFC panel shall have:
i) 1 (One) no 600 Amps, 4 pole MCCB as incomer
ii) Suitable length aluminium bus bar of 600 Amps with PVC sleeves
iii) 1 no. 0-400 Amps CT operated ammeter with selector switch
iv) 1 set of indicating lamps for three phase
v) Heavy duty 415 Volts MPP capacitors each complete with discharge resistance : 50 kVAR – 2 Nos., 25 kVAR – 2 Nos., 20 kVAR – 1 Nos., 10 kVAR – 2 Nos., 5 kVAR – 2 Nos.
vi) 1 no. power factor relay to sense power factor correction & to give phase impulses for switching on the capacitors & complete with power factor meter (soli state)
vii) TP air break contactors capacitor duty of 16 A capacity suitable for 415 Volts AC 50 Hz supply with one 32 A TP MCCB - 2 Set

viii) TP air break contactors capacitor duty of 30 A capacity suitable for 415 Volts AC 50 Hz supply with one 32 A TP MCCB - 2 Sets
ix) TP air break contactors capacitor duty of 55 A capacity suitable for 415 Volts AC 50 Hz supply with one 63 A TP MCCB - 3 Sets
x) TP air break contactors capacitor duty of 160 A capacity suitable for 415 Volts AC 50 Hz supply with one 100 A TP MCCB - 2 Sets
xi) 1 no. selector switch for 'Automatic'/ 'Manual' operation.
xii) Capacitor make shall be ABB / Siemens / GE Power / Epcos

CAPACITOR BANKS:
L T Power factor improving capacitors shall be robust in construction and as per 1S:2834 of 1964 with latest amendments. Best quality capacitor tissue paper, polypropelene, conductors impregnant, etc. shall be used for manufacturing the capacitors.
Elements shall be accurately and uniformly wound and shall be provided with its own built-in fuses. Each element should be tested before assembly, under fault conditions.
Insulators shall be of metallic, ceramic material.
The properly assembled elements shall be dried under high vacuum and non-inflammable impregnants should be used for impregnation. The assembly shall then be placed in MS container which will then be hermetically sealed.
Capacitor bank shall be Designed, supplied and installed for improvement of Power Factor from 0.7 to 0.99 for load of 400KVA.
Dry type, propylene type Capacitor shall be used along with 7% series reactance with microprocessor based relay with display of over voltage, over current and power factor and harmonics.
4 Nos CT of suitable rating shall be placed directly on the main BUS BAR to control the power factor both normal Power and Emergency Generators.
The container shall be painted only after proper cleaning. Degreasing, phosphating and then coat of Zinc Chromate Primer before the final two coats of the final paint.
Each capacitor shall be tested for loss angle and watt losses. Loss angle should not exceed 0.0004.
Capacitor shall also be tested for all leakage test ensuring that no oil leaks in 12 hours at 100#C. The capacitors shall be designed for 415 V, 50 Hz 450ambient temperature. This shall be designed to withstand a voltage up to 110% of rated RMS voltage.
The banking of the capacitor shall be done with the help of suitable size aluminium bus bars and the banks shall be mounted on angle iron frames duly painted with epoxy paints.

TECHNICAL SPECIFICATION FOR [C], SPECIFICATION OF DISTRIBUTION BOARD

The Distribution Board shall be 415 V, 3-phase, TPN MCB DB with double metal door, IP-54 enclosure (minimum) fitted with:
• 1 (one) no. 63 Amp, 415 V TPN, MCCB as incomer
• 2 (two) nos. 25 Amp 415 V TPN MCB as outgoing
• 1 (One) no. 63 Amp AC-3 duty contactor with 24 hrs. timer for switching on power to the lighting circuit with 'Auto'/ 'Manual' On/Off provision
• Each phase of the Lighting circuit shall have 1 (One) nos. 32 Amps 230 V, 30 mA Double pole RCCB as phase incomers with 8 (Eight) nos. 230 V, 16 amp SPN in each phase as outing / feeders.

• 3 (Three) separate Neutral Buses shall be provided against each phase of the Lighting circuit
MCB shall be c curve, 10ka rated. The DB shall be complete with aluminum busbar of 100 Amp for all phases & Neutral. The DB also shall have earth busbar of suitable size.

LIST OF ACCEPTABLE MAKES OF MATERIAL / COMPONENTS

The following are the acceptable makes of materials & components to be used in the LT panel :-
i) MCCBs / MCBs : ABB / Siemens / Merlin Gerin / Havells
ii) Isolators : ABB / Siemens / Merlin Gerin / Havells
iii) Contactors : ABB / Siemens / Merlin Gerin / Havells
iv) Fuses : Siemens / GE
v) Thermal Overload relay : Siemens / GE
vi) Control Switches : Siemens / Kay CE
vii) Indicating Lamps : Siemens / GE
viii) Push Buttons : Siemens / GE
ix) Capacitors : ABB / Siemens / GE Power / Epcos

NOTES:

1.0 LT panel shall be installed and commissioned by the bidder at designated location of OIL as per instruction and as listed in the tender.
2.0 Boarding, lodging and transportation of commissioning personnel will be in the scope of the bidder.
3.0 Bidder shall quote commissioning charges separately.
4.0 All necessary manpower, tools and tackles, instruments etc. required for commissioning shall be in the scope of the bidder.
Prospective bidders may visit the installations at their own cost before placing bids. OIL may be intimated beforehand.
5.0 The following documents shall be submitted with the bid for scrutiny:
i) Confirmation that the offered LT panel shall conform to all the points of the tender. Any deviation from the tender specifications must be clearly mentioned with technical justifications.
ii) Copy of test certificate for panels with Degree of Protection IP: 54 from CPRI or any govt. approved NABL accredited test laboratory
iii) Indicative general arrangement and layout drawing of the panel
iv) Indicative schematic and single line diagrams of the panel
v) Credentials of bidder having minimum 05 (five) years (till the bid closing date) experience in design, fabrication, supply, installation and testing & commissioning of LT PMCC Electrical Panels with ACBs / MCCBs. During these years bidder should have manufactured and supplied minimum 5 (five) nos. of panels to Govt./semi-govt./PSUs/public limited companies/3 star or above hotels/hospitals. These panels must be in operation satisfactorily as on date and credentials shall be submitted for the same.
vi) Credentials of Bidder having minimum seven tank anti rust treatment system and powder coating facility for treatment and painting of sheet metal works for durability.
In the event of an order, successful bidder shall submit fresh sets of detailed drawings (as mentioned above) within one month of placement of order which shall be approved by OIL before actual assembly/ manufacturing of the panels.

6.0 Offered panels must be new and in unused condition. No reconstructed/ rebuilt panels will be acceptable.
7.0 Components used in the PMCC panels shall be of makes (as given in the detailed description) and easily available. Bidder shall submit Bill of Materials (including any additional item to the item list given in the detailed description, if considered essential).
8.0 Bidder shall mention any deviations or other items/ points not indicated /included in the specifications but deemed necessary for design, Installation and commissioning, efficient control and operation of the PMCC panels. However proper justification for deviation must be given.
9.0 OIL representatives shall carry out stage inspection during panel fabrication & pre-despatch inspection of panel and witness all necessary testing at manufacturer's works. To and fro charges of OIL's personnel to manufacturer's works will be to OIL's account.
10.0 Routine Test certificates/reports for the LT panel carried out at manufacturer's works as per relevant IS shall be submitted at the time of final inspection by OIL's representative failing which despatch clearance will not be given.
11.0 LT panel shall be guaranteed for 12 (twelve) months from the date of commissioning.
12.0 Successful bidder shall submit "As-Built" drawings [4 (Four) copies] for the LT panel (after final assembly and commissioning at site) before handing over the same to OIL. In addition, supplier shall also submit technical brochures & operation and maintenance manuals of all items used in the panels.
13.0 Packing shall be done properly to avoid transit damage and water/ moisture ingress.

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BID EVALUATION CRITERIA (BEC)

In addition to BRC/BEC criteria of General Terms and Conditions for Local Tender (MM/LOCAL/E-01/2005), the following clause will be applicable against this tender. The bid shall conform to the specifications, notes, terms and conditions stipulated in the bidding document. Bid will be rejected in case items offered will not conform to the stipulated specifications. Not withstanding the general conformity of the bid to the stipulated specifications and terms & conditions, the following requirements shall be met by the bidder, without which the offer will be considered as non responsive and rejected. All the documents related to BEC must be submitted along with the bid.

A. TECHNICAL CRITERIA

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.

1. Offer shall be complete in all respect to meet the technical specifications and general notes of the tender.

2. Bidder shall be a panel manufacturer/channel partner/authorized dealer of 415 Volts AC panels/PCC or PMCC panels/switchboards of similar capacity or above. Bidders quoting on behalf of panel manufacturer/channel partner shall submit copy of valid dealership certificate/authorization letter/certificate of channel partnership from the panel manufacturer/channel partner along with the offer.

3. The bidder shall have experience in design, manufacturing, testing, supply, installation and commissioning of minimum 5 panels (in single order or multiple orders) of 415 V AC panels/PCC or PMCC panels/switchboards with ACB/MCCB (air circuit breaker/moulded case circuit breaker) in any Central Govt./Govt. PSU/Public Limited Companies/3 star or above hotels/hospitals during last 5 years as on bid closing date of this tender.

Bidders quoting as channel partner/authorized dealer shall submit either their own or panel manufacturer's / channel partner's credentials such as PO copies with invoice (unpriced) / performance certificate / completion certificate / commissioning report etc. against design, manufacturing, supply, testing and commissioning of panels during last 5 years as stated in para (3).

B) FINANCIAL CRITERIA :

1.0 The bidder shall have an annual financial turnover of minimum INR 12.00 Lakh) during any of the preceding 03(three) financial years/ accounting year reckoned from the original bid closing date.

2.0 "**Net Worth**" of the bidder should be positive for the preceding financial/ accounting year.

3.0 Documentary evidence in the form of Audited Balance Sheet and Profit & Loss Account for the preceding 03(three) financial/accounting years should be submitted along with the technical bid.

C) COMMERCIAL CRITERIA

1.0 Bid security of INR 48,000/- shall be furnished as a part of the TECHNICAL BID. (**Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration.** A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

For exemption for submission of Bid Security, please refer "General Terms & Conditions" for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005.

2.0 The Bid Security under 1.0 above shall be valid up to 31.08.2017.

3.0 Validity of the bid shall be minimum 90 days from Bid closing date. Bids with lesser validity will be straightway rejected.

4.0 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.

5.0 Bids containing incorrect statement will be rejected.

6.0 No offers should be sent by E-mail or Fax. Such offers will not be accepted.

7.0 Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of twelve(12) months from the date of commissioning against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier's expenses and no extra cost to OIL.

8.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.

9.0 Bidders are required to submit the summary of the prices in their commercial bids as per bid format (Summary), given below :

Commercial Bid Format (SUMMARY):

Item No. 10: L T PANEL AT OIL's Dandewala Gas Processing Plant(DND-GPC), Dandewala in Jaisalmer district of Rajasthan.

(A) Unit Rate of L T PANEL
(B) Packing and Forwarding Charges
(C) Total Ex-works value (A+ B)
(D) Excise Duty, (Please indicate applicable rate of excise duty)
(E) Sales Tax, (Please indicate applicable rate of Tax)
(F) Total FOR Dispatching station value, (C+D+E)
(G) Road Transportation charges including Loading/Unloading to/at OIL's Dandewala Gas Processing Plant (DND-GPC), Dandewala in Jaisalmer district of Rajasthan
(H) Insurance Charges
(I) Rajasthan Entry Tax
(J) Total FOR Destination (DND-GPC) value, (F+G+H + I)
(K) Installation & Commissioning, Testing Charges for L T PANEL including service tax
(L) Cost of Removal of existing L T Panel including service tax, if any
(M) Total Value, (J+K+ L) as above
(N) Total value in words :
(O) Gross Weight :
(P) Gross Volume :

Item No. 20: APFC PANEL AT OIL's Tanot Village Complex (TVC), Tanot in Jaisalmer district of Rajasthan.

(A) Unit Rate of APFC PANEL
(B) Packing and Forwarding Charges
(C) Total Ex-works value (A+B)
(D) Excise Duty, (Please indicate applicable rate of excise duty)
(E) Sales Tax, (Please indicate applicable rate of Tax)
(F) Total FOR Dispatching station value, (C+D+E)
(G) Road Transportation charges including Loading/Unloading to/at OIL's Tanot Village Complex (TVC), in Jaisalmer district of Rajasthan
(H) Insurance Charges
(I) Rajasthan Entry Tax
(J) Total FOR Destination (TVC) value, (F+G+H + I)
(K) Installation & Commissioning, Testing Charges for APFC PANEL including service tax
(L) Cost of Removal of existing APFC PANEL including service tax, if any
(M) Total Value, (J+K+ L) as above
(N) Total value in words :
(O) Gross Weight :
(P) Gross Volume :

Item No. 30: Distribution Board AT OIL's Tanot Village Complex (TVC), Tanot in Jaisalmer district of Rajasthan.

(A) Unit Rate of Distribution Board
(B) Packing and Forwarding Charges

(C) Total Ex-works value (A+B)
(D) Excise Duty, (Please indicate applicable rate of excise duty)
(E) Sales Tax, (Please indicate applicable rate of Tax)
(F) Total FOR Dispatching station value, (C+D+E)
(G) Road Transportation charges including Loading/Unloading to/at OIL's Tanot Village Complex (TVC), in Jaisalmer district of Rajasthan
(H) Insurance Charges
(I) Rajasthan Entry Tax
(J) Total FOR Destination (TVC) value, (F+G+H + I)

D) <u>EVALUATION OF BID</u> :

i) The bids which qualify against the Bid Evaluation Criteria will only be further evaluated.

ii) All items shall be procured from the same source/vendor to facilitate seamless execution of supply, installation, testing and commissioning and minimization of inventory.

iii) Bidder shall quote for individual items as under:
- Cost of LT panel
- Cost of installation & commissioning of LT panel
- Cost of removal of existing LT panel
- Cost of APFC panel
- Cost of installation & commissioning of APFC panel
- Cost of removal of existing APFC panel
- Cost of Distribution Board

I. **<u>COMMERCIAL</u>** :

1.0 The evaluation of bids will be done as per the Commercial Bid Format (SUMMARY) detailed in Para C,9.0. Comparison of bids will be done on the basis of "TOTAL VALUE for Item No. 10 , Item No. 20 & Item No. 30" basis.

2.0 If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.

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PRICE BID FORMAT

(Ref. Para C 9.0 of BEC)

Item No. 10: L T PANEL AT OIL's Dandewala Gas Processing Plant (DND-GPC), Dandewala in Jaisalmer district of Rajasthan.					
Srl. No.	DESCRIPTION	Qty	UOM	Unit Rate in INR	Total in INR
(1)	(2)	(3)	(4)	(5)	(6)=(3x5)
1	Unit Rate for Item No. 10 i.e L T PANEL	1	NO.		
2	Packing and Forwarding Charges in INR				
3	Total Ex-works value in INR				
4	Excise Duty in INR (Please indicate applicable rate of excise duty)				
5	Sales Tax in INR (Please indicate applicable rate of Tax)				
6	Total FOR Despatching station value in INR				
7	Total Road Transportation charges including Loading/Unloading to/at DND-GPC in INR				
8	Total Insurance Charges in INR				
9	Total F.O.R DND-GPC, Rajasthan value in INR				
10	Installation & Commissioning, Testing Charges of L T Panel at DND-GPC, Rajasthan including Service Tax (Please indicate applicable rate of Service Tax)				
11	Cost of Removal of existing L T Panel including Service Tax if any at DND-GPC (Please indicate applicable rate of Service Tax)				
12	Total Value in figures				
13	Total value in words				
14	Gross Weight :				
15	Gross Volume :				

Item No. 20: APFC PANEL AT OIL's Tanot Village Complex (TVC), Tanot in Jaisalmer district of Rajasthan.					
Srl. No.	DESCRIPTION	Qty	UOM	Unit Rate in INR	Total in INR
(1)	(2)	(3)	(4)	(5)	(6)=(3x5)
1	Unit Rate for Item No. 20 i.e APFC PANEL	1	NO.		
2	Packing and Forwarding Charges in INR				

3	Total Ex-works value in INR	
4	Excise Duty in INR (Please indicate applicable rate of excise duty)	
5	Sales Tax in INR (Please indicate applicable rate of Tax)	
6	Total FOR Despatching station value in INR	
7	Total Road Transportation charges including Loading/Unloading to/at TVC in INR	
8	Total Insurance Charges in INR	
9	Total F.O.R TVC, Rajasthan value in INR	
10	Installation & Commissioning, Testing Charges of APFC PANEL at TVC, Rajasthan including Service Tax (Please indicate applicable rate of Service Tax)	
11	Cost of Removal of existing APFC PANEL including Service Tax if any at DND-GPC (Please indicate applicable rate of Service Tax)	
12	Total Value in figures	
13	Total value in words	
14	Gross Weight :	
15	Gross Volume :	

Item No. 30: Distribution Board AT OIL's AT OIL's Tanot Village Complex (TVC), Tanot in Jaisalmer district of Rajasthan.

Srl. No.	DESCRIPTION	Qty	UOM	Unit Rate in INR	Total in INR
(1)	(2)	(3)	(4)	(5)	(6)=(3x5)
1	Unit Rate for Item No. 10 i.e Distribution Board	1	NO.		
2	Packing and Forwarding Charges in INR				
3	Total Ex-works value in INR				
4	Excise Duty in INR (Please indicate applicable rate of excise duty)				
5	Sales Tax in INR (Please indicate applicable rate of Tax)				
6	Total FOR Despatching station value in INR				
7	Total Road Transportation charges including Loading/Unloading to/at TVC in INR				
8	Total Insurance Charges in INR				

9	Total F.O.R TVC, Rajasthan value in INR	
10	Total Value in figures	
11	Total value in words	
12	Gross Weight :	
13	Gross Volume :	

NOTEs applicable for all the above item Nos. :

1. All items are to be procured from same source. Therefore bidders are compulsorily required to quote their rate for Item Nos 10, 20 & 30. Evaluation will be made on total value of Item Nos 10, 20 & 30 and lowest evaluated bid will considered for Order Placement.

2. Bidders to quote for Transportation charges upto Oil India Limited's Tanot Village Complex, Tanot, Jaisalmer, Rajasthan which is 120 KM (approx.) from Jaisalmer Town (Rajasthan)/ Oil India Limited's Gas Processing Plant, DND-GPC at Dandewala near Tanot in Jaisalmer district (155 KMs approx. Distance from Jaisalmer Township) & Payment Terms, Delivery Period, Net. & Gross Weight etc. in their offer.

3. To evaluate the inter-se-ranking of the offers, Rajasthan Entry Tax on purchase value will be loaded as per prevailing Govt. of Rajasthan guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their offer.

   However, payment of applicable Rajasthan Entry Tax on purchase value shall be to OIL's Account.

4. Other terms and conditions of the enquiry shall be as per General Terms and Conditions for Global E-Tender vide MM/LOCAL/E-01/2005. However, if any of the Clauses of this tender document contradict the Clauses of the booklet MM/LOCAL/E-01/2005 elsewhere; those in this tender document shall prevail.

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