

## ANNEXURE-I

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

The vendors must fulfill the following conditions:

- i) The party should have three year's experience for the same item.
- ii) The party should have received one order for at least 50% quantity in last three years for the item from any reputed firm.
- iii) Annual turnover of the firm in any of the last three financial years or current financial year should be more than Rs 11.50 Lakhs

**NOTE** : i) Relevant documents in support of experience, last order and annual turnover must be submitted along with the application.

- ii) Application without complete supporting document will not be considered.

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**OIL INDIA LIMITED**  
 (A Govt. of India Enterprise)  
 P.O. Duliajan-786602, Assam  
E-mail:material@oilindia.in, Fax No.91-374-2800533

**Tender No. & Date : DID1867L12/SH 03.05.2011**

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

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

Bid Closing On : 09.06.2011 at 13:00 hrs. (IST)  
 Bid Opening On : 09.06.2011 at 13:00 hrs. (IST)

Performance Guarantee : Not Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
<b>10</b> 0C000117	Electrical power control room, outdoor type, oilfield skid mounted, housing the MCC panels for disc brake system starters and feeders, complete in all respect, fitted with two incomers, changeover switch, vertical, insulated tinned busbars for feeding the individual panels, cable alleys and socket board (with plugs and sockets) for incomer and outgoing cables  <b><u>Specification</u></b> : As per <b><u>ANNEXURE-A</u></b>	1	NO

**Standard Notes: (1) VALIDITY : Your offer must be valid for 120 days from the date of bid opening. Offer with inadequate validity will be rejected.**

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

**(3) If you do not quote directly, please authorize your dealer to quote with prior intimation to us.**

**(4) Bidder other than OEM must forward their valid dealership certificate along with their offer; otherwise their offer shall be rejected.**

**(5) 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.**

**(6) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of a sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).**

**(7) In the event you authorize your dealer/stockist/channel partner to quote on your**

behalf, the dealer/stockist/channel partner while submitting bid should mention on the body of the envelope that they are submitting bid on your behalf. In the event the dealer/stockist/channel partner do not mention the name of their OEM/principal on the body of the envelope, the offer shall be treated as unsolicited offer and will not be considered for opening. The dealer/stockist/channel partner should take note of above while submitting bid on behalf of their OEM/principal.

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

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

**Special Notes :** i) The power control room shall be supplied and installed in OIL's diesel-mechanical rig 110 MA.

ii) Bidder must be an OEM (SCR/PCR house designer including MCC panel etc.) or an authorized agent/dealer of the manufacturer. Bidder shall submit credentials in support of their supplying and commissioning of PCR houses/MCC panels (minimum 10 nos.) to reputed national/Govt./PSUs. Authorized agent/ dealer shall submit valid authorization/ dealership certificate along with the bid. Bids unaccompanied with the relevant credentials are to be rejected.

iii) The following set of documents shall be submitted with the offer, failing which the bid to be rejected. In case of the successful bidder, OIL shall study the submitted drawings and incorporate modifications/ corrections if required, which shall be conveyed to the bidder. The bidder shall incorporate the modifications/ corrections in a set of revised drawings and submit the same to OIL for approval. Only after getting due approval of final revised drawings from OIL, the bidder/ manufacturer shall proceed for manufacturing & assembly of the house/panels.

- a) Indicative dimensional/GA drawings of the offered PCR house & MCC panel.
  - b) Electrical Schematic and Indicative wiring diagram of the starter/ feeder panels.
  - c) Indicative component layout diagram.
  - d) Indicative bill of Materials and datasheets of all the components to be used.
- An indicative single line diagram is attached for reference.

iv) Offered MCC panel must be new and in unused condition. No reconstructed/ rebuilt MCC panel will be acceptable.

v) Components used in the MCC panel shall be of reputed make and easily available. Bidder shall submit Bill of Materials as per indicative list of items given (including any additional item, if considered essential).

vi) OIL representatives shall carry out inspection of the PCR in two stages, once during the manufacturing of the shell and finally before dispatch. OIL shall witness all necessary testing at manufacturer's works. Bidders shall separately quote charges towards inspection and witness test, if any. Bidder/ manufacturer shall submit the inspection schedule along with the technical offer.

vii) Test certificates/reports for the PCR house (including panels) shall be submitted at the time of final inspection by OIL's representative failing which despatch clearance will not be given. Supplier shall submit the following documents:

- a) Complete test report,
- b) Commissioning report,
- c) Operation and maintenance manual,
- d) Spare parts list (see item # 8 below) and
- e) Final "as-built" drawings of the panels to OIL

Six sets of each of these reports in hard copy format and 2 sets in CD format shall be submitted.

viii) The items given in the "Annexure-Spares" shall be offered as MANDATORY SPARES to be supplied with the PCR. The list shall contain the names of probable sources, apart from quantity, make and model of the spares. Prices of spares shall be considered for evaluation purpose.

ix) Warranty / guarantee of the items as well as complete panels will be for 18 months from the date of successful commissioning at site. Guarantee certificate shall be submitted at the time of delivery of control panel.

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

xi) Technical checklist attached with the NIT shall be properly filled up by the bidder and submitted with the bid.

ANNEXURE-A

Scope of supply :

Electrical power control room, outdoor type, oilfield skid mounted, housing the MCC panels for disc brake system starters and feeders, complete in all respect, fitted with two incomers, changeover switch, vertical, insulated tinned busbars for feeding the individual panels, cable alleys and socket board (with plugs and sockets) for incomer and outgoing cables

Specification for Power Control Room (PCR)

1. Mechanical Features of PCR :

The power control room (PCR) shall house the motor control centre as well as incomers and outgoing feeders to/from the motor control centre.

PCR house shall be heavy duty sheet steel clad, fully weatherproof outdoor type, self supporting and transportable, horizontal oilfield type skid mounted structure. The PCR shall be designed for top lift.

PCR house columns and ceiling frame are to be constructed from structural steel seam welded. The outside shall be fabricated from twelve-gauge sheet steel. All corners are to be formed by bending leaving no sheet edge exposed. Roof of the PCR should have proper slopes so that no water logging takes place during rainy season. The PCR base shall be constructed on a heavy skid of double 225x110m RS joints in parallel.

The PCR shall have two single-leaf design steel doors, one at each end of the longer sides and diagonally opposite. Both doors shall be designed to open to the outside and provided with anti-panic door knob.

PCR shall have a plug socket board at one side for incoming and outgoing cables. The incoming feeders and motor control centre will be placed centrally inside the PCR.

The indicative dimension of the PCR shall be approximately 4.0 m long, 2.5m width and 2.5m high.

A rubber neoprene mat shall be provided over the full floor area of the house.

1.1 Painting of PCR & MCC :

Surface preparation and painting shall be adequate for the harsh rainy & humid environmental conditions.

- i) The outer surface of the PCR walls will be cleaned with sand blasting and finished with anti-corrosion polyurethane non-yellowing white paint with minimum thickness of 60 microns with double coat primer.
- ii) The MCC cubicles inside the PCR will be powder coated inside and outside to 60 micron thickness. Cubicle will pass through seven tank treatment process prior to surface preparation. Inside of the panels shall to be painted with white colour and outside to be painted with light grey colour to shade No 631 of IS-5.
- iii) Skid shall be thoroughly cleaned of all rust and loose metal particles and painted with suitable primer. Finishing coat shall be of two layers of high build Black coal tar epoxy paint.

1.2 Electricals :

Four nos. 2 x 40 W enclosed type fluorescent fittings shall be provided inside the PCR, two in front of the MCC panel and two in the back. The PCR shall be equipped with two portable (for working in panels) emergency lights which shall adequately light up the PCR in the event of a blackout.

Two nos. 1x20W T/L fittings shall also be provided in the socket board compartment.

Four 240 volt 3-pin sockets (6/16 Amps combination type) receptacles (suitable for Indian style plug) are to be provided, two at each end of the house. Suitably rated RCBOs shall be provided for light fittings and sockets. Two nos. heavy duty industrial type metal framed exhaust fans shall be provided on the opposite walls (longer sides). Suitable ducts (bottom entry) on the outside of walls will be provided for the fans for rain protection. Individual switches (RCBOs) shall be provided for the fans. All wiring shall be done with PVC insulated, screened, stranded copper cables of suitable size and cores.

## 2. LT Control Panels of MMC :

The panel shall be sheet steel clad, totally enclosed, dust and vermin protected, self supporting, indoor, compartmentalized, multi-tier cubicle type.

The MCC panel shall be fabricated from 14 SWG CRCA sheet steel. It shall have suitably sized rigid MS angle iron / MS channel frame work to have sufficient strength. All corners are to be formed by bending leaving no sheet edge exposed.

Panel doors shall be of single leaf design with heavy duty hinges and lockable. A neoprene gasket is to be provided around the periphery of individual panel doors to make the panels dust, oil mist/vapour and vermin-proof. Panels shall conform to IP-54.

Additionally, the cubicle shall have enclosed cable alley for outgoing cables and enclosed vertical bus chamber for supplying to individual cubicles.

The MCC panel shall be placed centrally inside the PCR.

### 2.1 Panel general features :

The MCC panel shall house the incomers (two nos., from the two 250 KVA alternators), one on-load type changeover switch (with MCCB as isolator on the load side) and various starters and feeders for AC motors. Starters and feeders shall be provided with individual cubicles. They shall be mounted on sheet steel base and all apparatus shall be suitable for front removal. Starter and feeder panels shall have HRC fuse units as incomers. The main fuses shall be pullout type connected to bus bars. All the components including MCC bus should be approachable from the front. Panel doors shall be provided with rubber gaskets.

### 2.2 Incoming Feeder Panels 02 (Two) Nos. :

There will be two incomer panels for supplying the MCC panel from two 250 KVA gen sets.

The incoming cables from each generator will be connected to 2 (two) nos. 125 Amps 5 pin sockets (BCH make, DS-9 type) mounted on a socket board on the PCR. Socket board will be located at a convenient place for easy plugging in of the cables. Matching plugs shall be provided with the sockets. From the sockets, suitably sized copper flexible cables shall be connected to the switch disconnector (SD) unit of the incomer cubicles.

The outgoing side of the SD unit shall be terminated in suitably rated busbar type HRC fuse base units (three pole and neutral link). The load terminals of the fuse base units shall be connected to the incomer terminals of the changeover switch (in the changeover switch panel) through suitably rated copper bus bars.

SD unit shall be provided with a rotary handle on the cubicle door, with ON/OFF indication clearly visible from outside.

Each of the incomers shall have the following minimum components :

- i) 4 pole, 415 VAC, 400 A switch disconnecter, suitable for front operation with handle on the panel door, with On/Off indication visible
- ii) HRC fuse base and carrier, SM 400 A GE make, for 3 phases and neutral link
- iii) Voltmeter, 0-500 VAC, size 90x90 mm
- iv) Voltmeter selector switch
- v) Indication lamps to indicate "Supply ON".

### 2.3 Change Over Switch (COS) panel (1 No.) :

One no. changeover switch shall be provided in a separate cubicle, suitable for front operation, with handle on panel door. This cubicle shall preferably be positioned between the incomer cubicles, in a vertical alignment. The incoming terminals of the COS shall be connected to the load terminals of the HRC fuses of the incoming cubicles (through copper bus bars). The load terminal of the COS shall be connected to the main incomer MCCB to the panel bus-bars.

The panel shall have :

- i) One no 4 pole, 415 VAC, 800 Amps capacity On-load Changeover switch:

The switch shall be suitable for operation from the panel door, the position of the connected (incoming) sides and off position clearly visible from outside the panel door and also marked on the door. Live parts of the COS shall be protected with terminal shrouds.

- ii) One no. 4 pole, 415 AC, 1000 A, 50 kA breaking capacity MCCB unit, the outgoing of which shall be connected to the main bus bars.

The MCCB will be suitable for operation from the panel door.

The connection from the COS load terminals to MCCB and MCCB outgoing to the main bus shall be through electrolytic grade copper bus links of proper rating.

#### 2.4 Bus Bar Chamber :

01 (one) number sheet steel enclosed horizontal bus chamber with a set of high conductivity TP & N electrolytic grade copper bus bars, rated 1000 Amps and suitable for withstanding short circuit fault levels of up to 50 kA. Also, enclosed vertical bus chambers for supplying to individual cubicles shall be provided.

A voltmeter and 'bus bar live' indicator LED lamps (3 phases) shall be provided to find out the bus status. Bus shall be easily accessible for maintenance. Bus bars shall be insulated properly.

#### 2.5 Starter and Feeder Panel Outline and Components :

Motor starter and feeder panels shall be housed in individual cubicles. These shall be fed from the main bus and through vertical bus chambers. Starter and feeder panels shall be fed from the main bus through three phase HRC fuse and neutral link. On the downstream of the fuse links, one On/ Off isolating switch / MCCB and one 4 pole residual current device (RCCB/RCBO, as per attached single line diagram) will be installed. Downstream of the isolation switch, contactor and overload relay shall be installed for motor starting. For feeder panels, contactor/ OLR combination is not required. RCBO/RCCB and isolation switch/MCCB shall be suitable for operation from outside, without opening the panel door.

Motors shall be suitable for operation from remote On/Off push button station. Provision shall be kept in the starter for remote start/ stop operation.

Outgoing from the motor starter contactor/ OLR, remote start/ stop PBS or isolation switch shall be terminated in a properly sized terminal block. EPR insulated screened copper cable shall be used to connect the outgoing of the terminal block to the MCC socket board.

Control supply of individual starters shall be tapped from its own line after the RCBO. All starters/feeders shall be provided with Type II protection. The starter shall be in-operative if the RCBO and/or isolating switch (MCCB) is off.

Starter panels shall be provided with an ammeter (accuracy class 1.5), CT operated, for monitoring of the individual motor current. "On" (red) and "Overload" (amber) LED type indicating lamps with LVG protection shall also be provided on each starter. One rating of components shall be used for a range of starters. Device selection shall be done taking motor starting current into consideration.

Panels shall be designed incorporating the following points :

- 1) Components used in the MCC panel shall be of reputed make and easily available. Layout of the components inside the panel shall be systematic and arranged in such a manner that sufficient space inside the panel is available for maintenance.
- 2) Incomer connections to the MCCB/ Isolator will be of copper bus bars.
- 3) All control wiring inside the panels is to be done with single core, 1.5 mm<sup>2</sup> flame retardant flexible copper PVC insulated and PVC sheathed wire.
- 4) All control and power connections are to be terminated with suitably rated tinned copper cable terminals (pin or ring type, as required). CT connections must be done with ring type terminals.
- 5) All control and power cables/wires are to be terminated to a terminal strip/ block of suitable size for ease of access, maintenance and modification.
- 6) All wires are to be fitted with coloured and numbered ferrules for ease of identification.
- 7) The indicating meters are to be mounted on the front side of the panels and shall be of flush type.
- 8) 2 nos. of separate earthing points are to be provided on the panels.
- 9) Any items/ points not indicated/included in the specifications but necessary for installation, commissioning and efficient control, operation and protection of the MCC panels, shall have to be stated/supplied by the bidder.
- 10) All SD units, changeover switch, MCCB, RCBO etc. used shall be suitable for isolation as per IS: 13947/ IEC 947.

2.6 Details of Starter and Feeder panels for Motors :

2.6.1. Starter panels 8 (eight) nos. as follows :

- i) 4 nos. for 10 HP, 415V, 3 phase, 50 Hz AC motor
- ii) 4 nos. for 20 HP, 415V, 3 phase, 50 Hz AC motor

2.6.2. Feeder panel 7 (seven) nos. as follows :

- i) 2 nos. 63 A, 415 V, 3 phase, 50 Hz
- ii) 5 nos. 125 A, 415 V, 3 phase, 50 Hz

2.6.3. Each starter panel shall be equipped with the following minimum indicative components:

- i) HRC fuse base and carrier (fitted with properly rated fuse link) and Neutral link
- ii) 3 Pole On/Off isolator, suitable for operation from outside the door
- iii) 4 pole RCBO (Residual current device), 300 mA sensitivity, with O/L and SC withstand capability, suitable for operation from outside the panel door. Neutral will be routed through the RCBO.
- iv) DOL starter with O/L relay, with provision for remote start/ stop in the control circuit
- v) Ammeter, MI type (CT operated)
- vi) LED lamps for On/ Overload indication suitable for 22.5 mm panel cutout
- vii) Control and power TB

2.6.4. Each feeder panel shall be equipped with the following minimum indicative components :

- i) HRC fuse base and carrier (fitted with properly rated fuse link) and Neutral link
- ii) 3 pole MCCB/Isolator as per attached drawing, suitable for operation from outside the panel door
- iii) 4 pole RCCB/RCBO (Residual current device), 300 mA sensitivity suitable for operation from outside the panel door, as per attached drawing. Neutral will be routed through the RCBO.
- iv) Ammeter, MI type (CT operated)
- v) Control and power TB

Outgoing cables from OL relay (in case of starters) and RCCB/RCBO (in case of feeder panels) shall be terminated on a properly rated TB in individual cubicles. Suitably sized

4 core, EPR insulated, screened copper cable shall be used to connect the individual outgoing sockets in the socket board from the TBs.

### 2.7 Socket board :

A socket board with sufficient plugs and sockets (5 pin, BCH make) with matching ampacity according to motor/ feeder loads shall be provided at one end of the PCR. The board shall be provided with a lockable door, which shall also be suitable for use as rain protection canopy. A rubber sheet shall also be provided for protection against rain. Two nos. 1x 20 W fluorescent tube light fittings shall be provided in the socket board compartment for illumination.

Socket board shall include :

- i) Sockets for motors as per motors list (5 pin socket)
- ii) Socket for remote push button as per motors list (5 pin socket)
- iii) Sockets for outgoing feeders as per outgoing feeder list (5 pin socket)

Make of Indicative list of components :

- a) Switchgear, control gear (Isolator, MCCB, RCD, contactor, overload relay etc.): Merlin Gerin, Telemecanique [Schneider Electric (India) Pvt. Ltd.]
- b) Fuse link/ holder: Class CC 415 AVC, make EE/GE
- c) C.T.s and ammeter: Automatic Electric/ Rishabh
- d) LED Indication lamps: Binay
- e) Cables: Power- NICCO/ Universal/ CCI
- f) Control wiring- Finolex/Havell's
- g) Plugs and sockets: BCH, DS type

### 3. Drawings and Documentation :

- a) Bidder shall submit the following information along with the offer failing which offer is liable for rejection:
  - # Indicative dimensional/GA drawings of the offered PCR with MCC panel
  - # Electrical Schematic and Indicative wiring diagram
  - # Indicative component layout diagram
  - # Indicative bill of Materials and datasheets of all the components used.

b) In case of the successful bidder, OIL shall study the submitted drawings and incorporate modifications/ corrections if required, which shall be conveyed to the bidder. The bidder shall incorporate the modifications/ corrections in the revised drawings and submit the same to OIL for approval. Only after getting due approval of final revised drawings from OIL, the bidder/ manufacturer shall proceed for manufacturing/assembly of the panels.

c) After successful commissioning, supplier/ bidder shall submit electrical drawings (laminated) of the panels which shall be corrected and final drawings after installation and commissioning, 6 (six) sets as hard copy. Also drawings shall be fixed on the panel door for each panel. An inductive single line diagram of the PCR is attached for reference.

#### 4. Inspection and Tests :

a) OIL shall carry out inspection of the PCR in two stages, once during the manufacturing of the shell and finally before dispatch. The plant and materials may be subjected for inspection during manufacture at OIL's discretion but such inspection shall not relieve the supplier of his responsibility to ensure that the equipment supplied is free from all manufacturing and other defects and conforms to correct specifications. Supplier will be notified in advance, if it is intended to inspect plant or materials.

b) Pre-dispatch and final inspection of the PCR shall be carried out by OIL's representative at the works of manufacturer. Testing of the PCR for output and performance shall be carried out in presence of OIL's representatives to their satisfaction. Supplier/ manufacturer shall accordingly arrange for inspection and intimate OIL well in advance.

c) Despatch clearance will not be given unless OIL is fully satisfied as regards manufacturing to order specifications and successful testing.

d) Bidders shall separately quote charges towards inspection and witness test, if any.

#### 5. Test Certificates :

Detailed records and certificates of the foregoing tests shall be submitted to OIL during final inspection by OIL representative at manufacturer's works. No dispatch clearance will be given unless the full test reports and certificates are submitted to OIL during the final

inspection. The test certificates / records shall be supplied in quadruplicate.

6. Packing :

The packing shall be sufficiently robust to withstand rough handling/ transit damage. Boxes/ packing cases containing spares shall be water proof lined. Loose components shall be packed separately.

7. Spares :

A list of indicative spares is attached as "Annexure-Spares". These spares are to be supplied with the PCR as MANDATORY SPARES. The list shall contain the names of probable sources, apart from quantity, make and model of the spares. Prices of spares shall be considered for bid evaluation purpose. The list is not exhaustive and the bidder may add items/ components if considered essential.

8. Any items/ points not included in the specifications but necessary for efficient control and operation of the alternator shall be stated by the bidder.

Annexure - Spares

<u>Sl. No.</u>	<u>Item</u>	<u>Qty.</u> <u>(Nos./Pairs)</u>	<u>Remarks</u>
1.	Fuse base and carrier	4	Of each type used
2.	Fuse	20	Of each type used
3.	MCCB	1	Of each type used
4.	Changeover switch	1	Of each type used
5.	3 Pole On/Off isolator	2	Of each type used
6.	4 pole RCBO	2	Of each type used
7.	Contactator	2	Of each type used
8.	Overload relay	2	Of each type used
9.	Ammeter	1	Of each type used
10.	CT	1	Of each type used
11.	LED indication lamps of each type and colour	2	Of each type and colour used
12.	Plugs and Sockets(pairs)	4	Of each type used

However, the list is not exhaustive. Bidder may mention any other spares for maintenance of the PCR, if considered necessary. Prices of the spares will be considered for evaluation purpose.

NOTE :

- i) The power control room shall be supplied and installed in OIL's diesel-mechanical rig 110 MA.
- ii) Bidder must be an OEM (SCR/PCR house designer including MCC panel etc.) or an authorized agent/dealer of the manufacturer. Bidder shall submit credentials in support of their supplying and commissioning of PCR houses/MCC panels (minimum 10 nos.) to reputed national/Govt./PSUs. Authorized agent/ dealer shall submit valid authorization/ dealership certificate along with the bid. Bids unaccompanied with the relevant credentials are liable to be rejected.
- iii) The following set of documents shall be submitted with the offer, failing which the bid is liable for rejection. In case of the successful bidder, OIL shall study the submitted drawings and incorporate modifications/ corrections if required, which shall be conveyed to the bidder. The bidder shall incorporate the modifications/ corrections in a set of revised drawings and submit the same to OIL for approval. Only after getting due approval of final revised drawings from OIL, the bidder/ manufacturer shall proceed for manufacturing & assembly of the house/panels.
  - a) Indicative dimensional/GA drawings of the offered PCR house & MCC panel
  - b) Electrical Schematic and Indicative wiring diagram of the starter/ feeder panels
  - c) Indicative component layout diagram
  - d) Indicative bill of Materials and datasheets of all the components to be usedAn indicative single line diagram is attached for reference.
- iv) Offered MCC panel must be new and in unused condition. No reconstructed/ rebuilt MCC panel will be acceptable.
- v) Components used in the MCC panel shall be of reputed make and easily available. Bidder shall submit Bill of Materials as per indicative list of items given (including any additional item, if considered essential).

- vi) OIL representatives shall carry out inspection of the PCR in two stages, once during the manufacturing of the shell and finally before dispatch. OIL shall witness all necessary testing at manufacturer's works. Bidders shall separately quote charges towards inspection and witness test, if any. Bidder/ manufacturer shall submit the inspection schedule along with the technical offer.
- vii) Test certificates/reports for the PCR house (including panels) shall be submitted at the time of final inspection by OIL's representative failing which despatch clearance will not be given. Supplier shall submit the following documents:
- a) Complete test report,
  - b) Commissioning report,
  - c) Operation and maintenance manual,
  - d) Spare parts list (see item # 8 below) and
  - e) Final "as-built" drawings of the panels to OIL
- Six sets of each of these reports in hard copy format and 2 sets in CD format shall be submitted.
- viii) The items given in the "Annexure-Spares" shall be offered as MANDATORY SPARES to be supplied with the PCR. The list shall contain the names of probable sources, apart from quantity, make and model of the spares. Prices of spares shall be considered for evaluation purpose.
- ix) Warranty / guarantee of the items as well as complete panels will be for 18 months from the date of successful commissioning at site. Guarantee certificate shall be submitted at the time of delivery of control panel.
- x) Packing shall be done properly to avoid transit damage and water/moisture ingress.
- xi) Technical checklist attached with the NIT shall be properly filled up by the bidder and submitted with the bid.

Technical Checklist (to be filled in by the bidder and submitted with the bid)

1. WHETHER bidder has submitted credentials/certificates, if any, of having supplied similar items to Govt./ Semi Govt. PSU along with the quotation? YES/NO.
2. WHETHER bidder has submitted
  - a) Indicative dimensional/GA drawings of the offered PCR house and MCC panel
  - b) Electrical Schematic and Indicative wiring diagram
  - c) Component layout diagram

d) Bill of Materials and datasheets of all the components used, with the offer [as per Item Note # 3 and Item description? YES/NO.

3. WHETHER bidder guarantees/ warranties the panels for 18 months from the date of successful commissioning at site and agrees to repair/ replace the defective items/ panels free of cost including to and fro transportation? YES/NO.

4. WHETHER bidder has agreed for stage inspection of the PCR by OIL representatives in two stages, once during the manufacturing of the shell and finally before dispatch., if any. Bidder/ manufacturer shall submit the inspection schedule along with the technical offer.

YES/NO.

5 WHETHER Bidder has separately quoted charges towards inspection and witness test or waived the same? YES/NO.

6 WHETHER Bidder has agreed to submit Test certificates/reports for the PCR house (including panels) at the time of final inspection by OIL#s representative (failing which despatch clearance will not be given by OIL). YES/NO.

7 WHETHER Bidder has submitted spare parts list as per "Annexure-Spares" and mentioned the prices? It is to be noted that cost of spares shall be taken for evaluation. YES/NO.

8 WHETHER bidder has submitted list of any other items/ points not indicated /included in the specifications but deemed necessary for Installation/Commissioning and efficient control, operation and protection of the compressors, compressor and after cooler motors/ panels? YES/NO.

Checked and Confirmed

(Signature)

Seal



Tender No. : DID1867L12/SH  
Tender Date : 03.05.2011  
Bid Closing On : 09.06.2011 at 13:00 hrs.(IST)  
Bid Opening On : 09.06.2011 at 13:00 hrs.(IST)

**Tender issued to following parties only:**

Slno	V_Code	Vendor Name	City/Country
1	200009	BHARAT HEAVY ELECTRICALS LIMITED	BHOPAL
2	200033	LARSEN & TOUBRO LTD.	MUMBAI
3	200310	ASSAM ELECTRICALS	TINSUKIA
4	200311	VENUS CONTROLS & SWITCHGEAR PVT. LT	KOLKATA
5	201667	RIGHILL ELECTRICS PVT LTD	BHOPAL
6	203969	LOTUS POWERGEAR PVT.LTD.	BANGALORE
7	204244	PCE PROJECTS PVT.LTD.	KOLKATA
8	204644	PYROTECH ELECTRONICS PVT.LTD.	UDAIPUR (RAJ)
9	204956	SIEMENS LIMITED	KOLKATA
10	206089	ELECTROKINGS	JORHAT
11	206625	TIL LIMITED	Kolkata