



**Gujarat Mineral Development Corporation Limited**

**Tender Document For**

**Augmentation of HT & LT MCC panels**

**AT**

**GMDC Corporate Office Building, Ahmedabad, Gujarat, Indi**

**Tender Number: GMDC/MM/HO/ELECT-04/24-25**

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**DGM (Civil, Maintenance & Purchase)**

**Gujarat Mineral Development Corporation Ltd.**

**(A Govt. Of Gujarat Enterprise)**

**CIN: L14100GJ1963SGC001206, GST: 24AAACG7987P1ZT**

**Khanij Bhavan, 132' Ring Road, University Ground, Vastrapur, Ahmedabad 380 052**

**☎EPABX: 079-27913501, 27913200**

**E-mail: [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com), Website: [www.gmdcltd.com](http://www.gmdcltd.com)**

**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED**

**(A Government of Gujarat Enterprise)**

**CIN: L14100GJ1963SGC001206**

**Khanij Bhavan, Nr. University Ground, 132ft. Ring Road, Vastrapur, AHMEDABAD-380052, Gujarat, India**

**PHONE:(079)27913200/3501 Web:[www.gmdcltd.com](http://www.gmdcltd.com); E-Mail : [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com)**



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## **TENDER NOTICE**

**Tender Number: GMDC/MM/HO/ELECT-04 /24-25**

<b>Brief Description of work</b>	Augmentation of HT & LT MCC panels with Spares support up to 05 years at GMDC Corporate Office Building, Ahmedabad, Gujarat, India.
<b>Location of Work</b>	The Work to be carried out at GMDC Corporate Office Building, Ahmedabad, Gujarat, India
<b>Period of contract</b>	The period of contract for augmentation will be 06 months from the date of acceptance of LOI.
<b>Estimated Contract Value</b>	Approximately Rs. 26.00/- Lakhs (Rupees Twenty-Six Lakhs Only) for total work excluding GST.
<b>Availability of Tender</b>	<p>Tender Document will be available on the GMDC website (<a href="http://www.gmdcltd.com">www.gmdcltd.com</a>) and nprocure portal (<a href="https://gmdctender.nprocure.com">https://gmdctender.nprocure.com</a>).</p> <p>Price Bids shall be required to be submitted online only on the n- procure portal (<a href="https://gmdctender.nprocure.com">https://gmdctender.nprocure.com</a>).</p>
<b>EMD (Earnest Money Deposit)</b>	<p>Rs. 78,000/- (Rupees Seventy-Eight Thousand only) in Form of</p> <ul style="list-style-type: none"><li>➤ DD in favor of GMDC Ltd. Payable at Ahmadabad.</li><li>➤ Digital Mode, please note if payment is made through Digital Mode kindly submit the receipt of the same in the attached documents.</li><li>➤ RTGS details for payment (Annexure-B) ICICI Bank, Ahmadabad Branch, Ahmadabad Account Number: 002405019379 IFSC: ICIC0000024</li></ul> <p><i>Relaxation in terms of submission of EMD shall be given to the bidder who is holding valid Certificate issued under the MSME Act, 2006 on the date of submission of Tender.</i></p>

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<p><b>Tender Processing Fee</b></p>	<p>Rs.2500/- (Two Thousand Five Hundred only) plus GST @ 18% aggregating to Rs.2950/- payable by Demand Draft/ Pay Order drawn in favor of “GMDC Ltd.” payable at Ahmadabad.</p> <p><i>Relaxation in terms of submission of Tender Processing Fee shall be given to the bidder who is holding valid Certificate issued under the MSME Act, 2006 on the date of submission of Tender.</i></p>
<p><b>Commencement of tender</b></p>	<p><b>From 04<sup>th</sup> Feb 2025</b></p>
<p><b>Last date for download the tender document.</b></p>	<p><b>24<sup>th</sup> Feb 2025 up to 18.00 Hours</b></p>
<p><b>Last date of submission of bid through online</b></p>	<p><b>24<sup>th</sup> Feb 2025 up to 18.00 Hours</b></p>
<p><b>Last date of submission of physical documents i.e. EMD, Tender Processing Fee etc.</b></p>	<p><b>24<sup>th</sup> Feb 2025 up to 18.00 Hours at Corporate Office, GMDC, Ahmedabad</b></p>
<p><b>Date and time for online opening of preliminary bid.</b></p>	<p><b>25<sup>th</sup> Feb 2025 at 11.00 Hours</b></p>
<p><b>General and Important Terms and Conditions</b></p>	<ol style="list-style-type: none"> <li>1. GMDC reserves absolute right/discretion to accept and/or reject any or all the tenders received or invite fresh bid at any stage or split the work between more than one Bidders as the case may be.</li> <li>2. The Bidders are required to quote the rate as per the terms and conditions mentioned in the Tender document. Conditional tender shall not be entertained and will be rejected summarily without assigning any reasons, whatsoever.</li> <li>3. GMDC may issue amendments/corrigendum in the tender documents, schedule, forms etc. at any time during the period between publication of notice and submission of bids of the tender</li> </ol>

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	<p>on website. The Bidders in their own interest are advised to visit the website regularly till the last date of submission of the bid. No separate newspaper advertisement will be released for amendments/corrigendum.</p> <ol style="list-style-type: none"><li>4. GMDC reserves the rights to modify or alter any Condition of the Tender.</li><li>5. The Bidders are advised to submit their price bid online on <a href="https://www.gmdctender.nprocure.com">https://www.gmdctender.nprocure.com</a> only. Physical price bid shall not be accepted and shall be rejected summarily without assigning any reasons, whatsoever.</li><li>6. Failure to submit online bid in stipulated time due to any reason whatsoever by any Bidder shall result in disqualification of bid. In such circumstances, bid submitted physically along with supporting documents, tender processing fees, EMD amount etc. shall not be considered as bid submitted and the same will be returned back to the Bidder without opening the same. GMDC reserves the right to take suitable decision in this regard.</li></ol>
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## **1. Purpose of the Document**

The Tender Document floated by GMDC (Gujarat Mineral Development Corporation Limited), A Government of Gujarat Enterprise is to select a successful bidder who would be responsible for the Augmentation of HT & LT MCC panels with Design, Supply installation testing and commissioning with Spares support up to 05 years at GMDC Corporate Office Building, Ahmedabad, Gujarat, India.

## **2. About GMDC**

Gujarat Mineral Development Corporation Limited herein after referred to as GMDC, a Government of Gujarat Enterprise, is a pioneer company in the field of mining for six decades, catering to the needs of the minerals and solid fuel for the industries based in Gujarat. GMDC's mining activities are spread all over Gujarat. It is currently dealing in minerals like Lignite, Bauxite, Fluorspar, Ball Clay, Silica sand and Manganese. GMDC has also set up a 250 MW lignite based Thermal Power Station at Nani Chher in Kutch, Wind power plant of 200.9 MW at Maliya, Jodiya, Godsar, Bhanvad, Bada, Varvada, Rojmal and Solar Power plant of 5 MW at Panandhro Project.

## **3. Location of Work**

The work required to be carried out is located at GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED (GMDC) corporate office, Khanij Bhavan, Nr. University Ground, 132ft. Ring Road, Vastrapur, Ahmedabad-380 052, Gujarat, India. The nearest Railway Station and Airport is at Ahmedabad.

## **4. General Instructions to Bidder**

The section aims to provide guidelines/Instructions for Bidders, to be used while submitting the Proposals.

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#### **4.1 Cost of Bidding**

The Bidder will bear all costs associated with the preparation and submission of its bid and GMDC LTD., will in no event or circumstance be held responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

#### **4.2 Due Diligence**

The Bidder is expected to and shall be deemed to have examined all instructions, forms, terms and specifications and other information in this Tender Document. The bid should be precise, complete and in the prescribed format as per the requirement of the Tender Document. Failure to furnish all information required by the Tender Document or submission of a bid not responsive to the Tender Document in every respect will be at the Bidder's risk and may result in rejection of the bid. GMDC shall at its sole discretion be entitled to determine the adequacy/ sufficiency of the information provided by the Bidder.

#### **4.3 Clarification of Bidding Documents**

GMDC shall make best efforts to respond to any request for clarification of the Tender Document. The response/clarification shall to the extent possible be made in writing.

#### **4.4 Amendment of Tender Document**

At any time before the deadline for submission of bids, GMDC LTD may modify the tender Document for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Tender Document by amending, modifying and/or supplementing the same. Any amendments/modifications in the tender document would be displayed on GMDC Web Site/nprocure website and all such amendments shall be binding on the Bidder without any further act or deed on GMDC LTD part. In the event of any amendment, GMDC LTD reserves the right to extend the deadline for the submission of the bids, in order to allow prospective Bidder reasonable time in which to take the amendment

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into account while preparing their bids. GMDC LTD may at its sole discretion, extend this deadline for submission of bids by amending the bid documents.

#### **4.5 Contact Details**

All inquiries concerning this procurement are to be addressed to the following:

##### **DGM (Civil, Maintenance & Purchase)**

Gujarat Mineral Development Corporation Ltd.

Khanij Bhavan, 132' Ring Road, University Ground,

Vastrapur, Ahmedabad 380 052

☎EPABX: 079-27913501, 27913200

E-mail: [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com),

#### **4.6 Language of Bid**

All Proposals and various documents related to these Proposals should be in English Language. All correspondence between GMDC LTD., and the Bidder would also be in English Language. Supporting Documents and Printed Literature furnished by the Bidder may be in another Language provided the same are accompanied by an accurate translation in English Language.

#### **4.7 Late Bids**

Any bid received by GMDC LTD after the deadline for submission of bids prescribed by GMDC LTD., summarily rejected. GMDC LTD. shall not be responsible for any postal delay or non-receipt /non-delivery of the documents. No further correspondence on this subject will be entertained.

#### **4.8 Right to Accept Proposal**

GMDC LTD reserves the right to accept or reject any Proposal, and to annul the Proposal process and reject all Proposals at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or any obligation to inform the affected Consortium of the grounds for such decision.

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#### **4.9 Site Visit**

**4.9.1** Bidders advised to visit to GMDC corporate office, Khanij Bhavan, Nr. University Ground, 132ft. Ring Road, Vastrapur, Ahmedabad-380 052, Gujarat, India to study the actual established electrical system/working conditions and location before submission of the bid and shall have to submit the site visit declaration in the prescribed format. The information/details given in the tender document are only to describe the magnitude of work and are for mere guidance to the Bidders.

**4.9.2** Any neglect or failure on the part of the Bidder in obtaining necessary and reliable information upon the foregoing or any other matters affecting the contract shall not relieve him from any risks or liabilities or the entire responsibility from completion of the work at the contracted rates and time in strict accordance with the contract documents.

#### **4.10 Period of Validity of Bids**

Bids shall remain valid for 180 days after the date of bid opening prescribed by GMDC LTD, pursuant to the Tender schedule mentioned in this document. In exceptional circumstances, GMDC LTD. may solicit the Bidder's consent to an extension of the period of validity. The request and the response thereto shall be made in writing. Extension of validity period by the Bidder shall be unconditional.

#### **4.11 Subcontract**

The Successful bidder shall not assign or sub-contract any portion of this work without prior written consent of GMDC.

#### **4.12 Consortium / Joint Venture**

Consortium / Joint Venture are not allowed.

#### **4.13 Change in Law**

Nothing in this contract shall entitle the Bidder to claim additional payment against the work executed or being executed or likely to be executed upon the change in law by Government of India or State of Gujarat as regards any taxes, liabilities

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arising out of work contract, judgments of court etc. That nothing under the said laws shall create any additional liability on the GMDC over and above that set out herein. That unforeseen circumstances in the working of the said contract shall not entitle the Successful Bidder to abandon or demand additional payment under a different head not originally mentioned herein and hence nothing except what is contained in the present contract shall constitute binding obligations between parties.

#### **4.14 Interpretation**

That no communication preceding or following the present tender shall have any bearing on the terms and conditions set out herein. That no contract, promise or obligation shall arise out of the said communication, over and above what is set out herein above. That the terms contained herein constitute the entire bargain between the parties and shall not be interpreted in the light of commercial correspondence between the parties.

#### **4.15 Declaration**

The Bidder should submit the declaration regarding unconditional acceptance of all the terms and conditions of the Tender document including Annexure and corrigendum if any and it has not enclosed any conditional offer as per FORM PD provided in the Tender Document.

GMDC is authorized to take suitable decision and action in case of requirement to amend/alter the contract conditions/quantities of the works/ extension of the contract period/allotment of additional works/revision of the rates of the work etc. if necessary, in the interest of GMDC.

The Successful bidder shall not change the constitution of the firm/name during the currency of the contract without prior approval of GMDC. Upon such change in constitution and/or name, Supplementary agreement to that effect shall be executed and if the SD is submitted in form of BG/FD than fresh BG in the name

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and/or constitution shall be submitted failing which necessary action as deemed fit by GMDC shall be taken.

**5. Earnest Money Deposit**

A non-interest-bearing Earnest Money Deposit Rs. 78,000/- (Rupees Seventy-Eight Thousand only) in any one of following form

- Demand Draft in favor of GMDC Limited Payable at Ahmadabad

OR

- Digital Mode, please note if payment is made through Digital Mode kindly submit the receipt of the same in the attached documents. RTGS details for payment (Annexure-B)

ICICI Bank, Ahmedabad Branch, Ahmedabad

Account Number: 002405019379

IFSC: ICIC0000024

***Relaxation in terms of submission of EMD shall be given to the bidder who is holding valid Certificate issued under the MSME Act, 2006 on the date of submission of Tender.***

**6. Tender Processing Fee**

The Tender Processing Fee is to be paid at the time of submission of supporting document of technical bid in the form of demand draft of Rs. 2500/- plus GST @ 18% (Rs. 450) aggregating Rs 2950/- as mentioned in tender notice in the sealed technical bid cover.

If the amount mentioned in the DD is found short, the tender will not be considered for scrutiny and will be out rightly rejected.

***Relaxation in terms of submission of Tender Processing Fee shall be given to the bidder who is holding valid Certificate issued under the MSME Act, 2006 on the date of submission of Tender.***

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## 7. Security Deposit

7.1 Security Deposit is measure of liquidated damages sustained by GMDC for not performing the contract satisfactorily. Nothing herein above shall disentitle GMDC from claiming the damages actually sustained in the value over and above the Security Deposit.

7.2 The successful bidder shall submit security deposit of 10% of the total contract value excluding Goods & Service Tax (GST) at within 10 days from the date of receipt of acceptance of LOI in any one of following form.

➤ Demand Draft in favor of GMDC Limited Payable at Ahmadabad

OR

➤ Bank Guarantee issued by banks approved by Govt. Of Gujarat from time to time (except Co-Operative bank) in the form and manner acceptable to GMDC (Govt. GR is annexed at “B” for approved bank). It should be valid for a period of not less six months beyond the contract period from the date of receipt of LOI and shall be renewed from time to time in case of requirement.

7.3 It shall be refunded to the Successful bidder, within a period of six months after satisfactory completion of the work and the due fulfillment of all the terms and conditions of the contract.

7.4 The Successful bidder shall obtain “No Dues Certificate”, “Site Clearance Certificate” and Work Completion Certificate” from Maintenance department and shall submit the same to Maintenance department at HO, who after verification of the fact will arrange for refund of SD.

7.5 The SD deposited by the Successful bidder may be forfeited if the successful bidder fails to adhere to fulfill the conditions of work order.

7.6 Security deposit shall not bear any interest under any circumstances. Security Deposit is a measure of liquidated Damages sustained by GMDC for not providing the manpower, tools and tackles as required as per the contract.

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7.7 GMDC will reserve the right to recover the charges or the liquidated damages from the Security Deposit in the following circumstances-

7.7.1 If the successful bidder or its employees causes any damage or destroy any property belonging to GMDC.

7.7.2 The shortfall amount of all compensations, penalties, and other sums of money payable by the successful bidder or recoveries to be made under the terms of this contract which is due but not paid by the successful bidder in full, etc.

7.7.3 Any other dues on account of statutory compliance.

## 8. Procedure for Submission of the Bid

8.1 Offers prepared in accordance with the procedures enumerated below.

8.2 Bid should be submitted **online** at [www.nprocure.com](http://www.nprocure.com) on or before the last date and time as prescribed in this tender.

8.3 The Bidder should submit their bids in Three parts, these are

8.3.1 Prequalification bid (Details of EMD and Tender processing Fee),

8.3.2 Technical Bid

8.3.3 Price Bid.

8.4 Manual price bids or the bids submitted by e-mail etc. will not be accepted under any circumstances. No correspondence will be entertained on this matter.

8.5 Bidders are advised to follow the 'Instructions for Bids Submission' given annexure "A" for e-submission of the bids online through n-procure.

**8.6** Documents should be submitted as per check list given in form "PA" through 'off-line' in the sealed cover super-scribed as "**Technical Bid for Tender Number GMDC/MM/HO/ELECT-04/24-25 and Name of work: " Augmentation of HT & LT MCC panels" at GMDC Corporate Office Building, Ahmedabad, Gujarat, India.**

Bids must be submitted as per the schedule (date & time) indicated in tender notice.

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Khanij Bhavan, Nr. University Ground, 132ft. Ring Road, Vastrapur, AHMEDABAD-380052, Gujarat, India

PHONE:(079)27913200/3501 Web:[www.gmdcltd.com](http://www.gmdcltd.com); E-Mail : [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com)



## 9. Eligibility and Qualification Criteria of Bidder

### 9.1 Experience

The Bidders should have following minimum experience of having successfully completed similar works during last 7 (seven) years ending on last day of Jan-2025 (i.e. period from 01.02.2018 to 31.01.2025):

A. Three similar completed works each having amount of Rs 10,40,000/- (Rupees Ten Lakhs Forty Thousand Only) or more during last 7 (seven) years ending on last day of Jan-2025 (i.e. period from 01.02.2018 to 31.01.2025)

**OR**

B. Two similar completed works each having amount of Rs 13, 00,00/- (Rupees Thirty Lakhs Only) or more during last 7 (seven) years Jan-2025 (i.e. period from 01.02.2018 to 31.01.2025)

**OR**

C. One similar completed work having amount of Rs 20,80,000/- (Rupees Twenty Lakhs Eighty Thousand Only) or more during last 7 (seven) years Jan-2025 (i.e. period from 01.02.2018 to 31.01.2025)

Similar works means the Bidders should have experience to carry out one or more following works for Government/Semi Government / Municipality / Corporation/Private Company and should have been carried out under the single LOI/Work Order/Agreement.

➤ Design, Supply, Installation, Testing & Commissioning work of HT & LT MCC panel and should have been carried out under the single LOI/Work Order/Agreement.

**OR**

➤ Renovation and Modernization of MCC panels and should have been carried out under the single LOI/Work Order/Agreement

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Bidder shall submit the details of work completed in form PC as provided in the Tender Document Separate year wise Statement of experience with work orders and work executed certificates (Work Completion Certificate) duly certified by the certificate issuing authority shall be submitted as supporting documents.

**The successful bidder shall have licence issued by Gujarat State to carry out electrification work.**

## **9.2 Financial**

- 9.2.1** Bidder must have an average positive Net Worth as on last three financial year of 31.03.2022, 31.03.2023 and 31.03.2024.
- 9.2.2** Bidder must have a Minimum Average Turnover of Rs 7,80,000/- (Rupees Seven Lakh Eighty Thousand Only) for financial year ending on 31.03.2022, 31.03.2023 and 31.03.2024.
- 9.2.3** A certificate from Chartered Accountant regarding financial capacity shall be submitted as per format provided in FORM PC of the Tender Document.

## **9.3 Site Visit Certificate**

The Bidder should give a declaration of site visit as per the format provided in FORM PG of the Tender Document.

## **9.4 Blacklisting of the Bidder**

The Bidder or its directors have not been blacklisted by any Government Organization. The Bidder will submit a declaration to this effect as per the format provided in FORM PD of the Tender Document. If at any time such declaration is found false, the bid will be rejected or if the contract work is already awarded, it will be terminated forthwith without payment of any compensation and the EMD/SD will be forfeited.

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## **10. Evaluation of Bids**

### **10.1 Completeness of Bids**

GMDC, will examine the bids to determine whether they are complete, whether they meet all the conditions of the Tender Document and Technical Specifications, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bid Documents are substantially responsive to the requirements of the Tender Document.

### **10.2 Tender Clarifications**

The GMDC may at its discretion, seek from any or all bidders, clarifications on his/their bids, including technical information, documents and materials after technical bid opening but before opening of commercial bid.

### **10.3 Rejection of Bid**

A bid that does not meet all eligibility criteria or is not responsive shall be rejected by GMDC. Submission of false or incorrect information, history of delayed work, reports of unprofessional conduct, among other things, shall be sufficient grounds for disqualification in technical bid.

### **10.4 Opening of Bids**

Technical bids will be opened after verification of receipt of payment towards Tender Processing Fee and EMD. The eligible bidders will be able to view the technical bids after opening of technical bid. On verification of the supporting documents, technical qualification of the bidders will be assessed. The eligible bidders will be communicated the date and time of online opening of price bids by fax or telephone or email or SMS. However, all bidders will be able to view the price bids online on their computers after opening of price bid.

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### **10.5 Selection of Bidder**

The contract will be awarded to the bidder who stands L1 in total price. The GMDC reserves its right to reject any or all tenders or split the job between more than one bidders without assigning any reason and thereby without incurring any liability to the affected successful bidder or Bidders or any obligation to inform the affected successful bidder or bidders of the grounds for GMDC Ltd., action/decision.

### **10.6 Discussion**

It is essential for the successful bidders to quote the lowest price at the time of making the offer in their own interest. GMDC, however, will have the discretion to choose to enter any mode of discussion or not.

### **10.7 Acceptance of LOI and Issuance of Work Order:**

- 10.7.1** GMDC, on acceptance of the offer, will issue Letter of Intent to the successful bidder, who will be required to confirm its acceptance of the LOI within 10 days from the date of receipt. If he does not accept the LOI within stipulated period, the amount of the EMD paid will be forfeited and necessary further actions may be initiated as may be deemed fit by the GMDC.
- 10.7.2** The Successful bidder shall have to submit the Security Deposit with within 10 days from the date of LOI. The Successful bidder shall submit the Security Deposit in the manner prescribed in this Tender Document after that issuance of work order. In case of failure to submit the security deposit, the amount of EMD will be forfeited and necessary further actions may be initiated as may be deemed fit by the GMDC.
- 10.7.3** GMDC will award the contract (Work Order) to the successful bidder, after the payment of Security Deposit, in token of acceptance of the terms and

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conditions of the contract, within 30 days from date of LOI. In case of any necessity arising after executing work order and during the execution of the work, which requires alteration/modifications in the agreement, the same can be made in writing after mutual understanding and consent of both the parties.

## **11. Scope of Work**

The successful bidder shall be required to carry out following job:

Brief details of work are as under

1. Design, Supply, Installation, Testing, Commissioning, and successful trial run of H.T. INDOOR SWITCH GEAR PANEL with new panel earthing.
2. Design, Supply, Installation, Testing, Commissioning, and successful trial run of LOW VOLTAGE (LT) INDOOR PANEL BOARD with new panel earthing.
3. Dismantling of existing HT & LT panel system (entire system), Transportation and Loading/Unloading of existing and new HT & LT panel system, Storage of supplied material and equipment till installation, all technical-nontechnical persons, Mechanical tolls, modifications at required stage are in successful bidder's scope.
4. Buyback of Existing HT & LT panels system
5. All HT & LT cable termination dis-connection from existing HT & LT panel system and cable re-termination/connection along with all required materials like cable termination jointing kit, lugs, cables, consumable etc. are in successful bidder's scope.
6. Both HT and LT panel room luminaires new fitting installation with new wiring (Approx 27 nos. point wiring, Tube light fitting 20 W, plug sockets, switch board) are in successful bidder's scope.

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### 11.1 Technical Specifications:

#### (1) Design Supply, installation Testing and Commissioning of the H.T. INDOOR SWITCH GEAR PANEL

Specification	Installation
<p>SITC of 11 kV, 500 MVA, 800A, Indoor, Extensible type, Horizontal draw out, Motorised spring charging mechanism, 3 breaker Vacuum Circuit Breaker Panel with EC grade copper busbars along with required Resin cast CT Dual primary &amp; secondary</p> <p>Cl: 0.5/5P10, 15VA,            Digital MFM with RS 485 with 3 Line Display, Class-0.5s and PT (dual secondary) Cl:0.5/3P, min 200VA or higher for metering and protection, 110V DC power pack for individual incoming and outgoing feeder,            Annunciator, Hooter, Indicating lamps,            Numerical Protection relay (current &amp; Voltage Based) with RS 485 with combined protection for 3O/C+1E/F, S/C, Under &amp; Over Voltage, Tfr. Protection Aux. relay etc. High speed tripping relay,            Trip ckt. supervision relay,            Fuse failure relay,            Digital Power factor meter, Ammeter, Voltmeter (Only I/C),            A/M switch suitable for PLC/SCADA etc. complete in all respects as per IS, Specification.</p>	<p><b>Incomer Bkr: 01 no.</b>  <b>OutgoingBkr:02 nos.</b></p>

#### (2) Design Supply, installation Testing and Commissioning of LOW VOLTAGE (LT) INDOOR PANEL BOARD:

**SITC of LT Panel (50kA), compartmentalized, Floor mounted, operating height maximum 1800/1900 mm, Extensible on both ends,**

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**suitable for Manual & Auto operation as per site conditions complete in all respects as per Tender Specification / IS and including following as minimum:**

Sr. no.	Particulars	Specification	Installation
01	INCOMER	1600A, 4P, 50 KA Microprocessor EDO ACB LSIG with inbuilt RS 485 MODBUS communication with Digital Voltmeter with VSS, Digital PF Meter, Digital Ammeter with ASS, Resin Cast CT- Cl : 0.5,10VA, MFM Cl. 0.5, Breaker Control Switch (TNC), A/M, L/R switch, Indicating lamps, Push buttons etc., with electrical & mechanical interlocking between Incomers and buscoupler. Surge protection device, 3P + N, Type 2 for lightning/surge protection. Load sensing CT in Incomer & Busbar for APFC panel along with 2 nos. Resin cast Summation CT 5A+5A/5A, Cl.-0.5. Constant voltage/control voltage transformer 1500VA, 415V/230V AC, with tapping +/-5% in steps of 2.5%, 16A DP MCB & 18A Power contactor.	<b>Incomer Bkr: 02 nos.</b>
02	BUS-COUPLER	1600A 4P ACB (same as Incomer), EC grade AL Main busbars. (Busbars size as per 50KA fault level and Temperature rise with Minimum current density 0.8A/Sq.mm)	<b>Bus coupler Bkr: 01 no.</b>
03	TRANSFORMER FIXED COMPENSATIO N FEEDER	Each comprising of 125A FP Thermal magnetic MCCB, Ind. Lamp, with Capacitor duty contactor, ON Delay timer, individual MCCB/MCB.	<b>50 KVAr: 2 Sets</b>

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04	POWER DISTRIBUTION FEEDERS	630A 4P 36kA MCCB TM Release, 415V AC, 50Hz	<b>02 nos.</b>
		1000A 4P Motorized Automatic Changeover Switch with Inbuilt microprocessor based ATS controller (for DG supply changeover)	<b>01 no..</b>
		400A 4P 36kA MCCB TM Release, 415V AC, 50Hz	<b>03 nos..</b>
		250A 4P 25kA MCCB TM Release, 415V AC, 50Hz	<b>04 nos.</b>
		125A 4P 25kA MCCB TM Release, 415V AC, 50Hz	<b>02 nos.</b>
		1250 A 4P ACB	<b>01 no.</b>

**Tentative single line diagram for LT Panel is attached with tender document for bidder's reference only.**

## **11.2 General Requirements**

It is not the intent to specify completely herein all details of the equipment. Nevertheless, the equipment shall be complete and operative in all aspects and shall conform to highest standard of engineering, design and workmanship. The following shall be considered in the scope of work as a minimum.

**11.2.1** All equipment and materials shall be designed, manufactured and tested in accordance with the latest applicable Indian and International Standards except where modified and/or supplemented by this specification. Only in absence of Indian standards International standards shall be followed.

**11.2.2** The equipment shall meet the requirements of Indian Electricity Rules, CEA Notification, CPWD guidelines as amended up to date and relevant IS Codes

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of Practice. In addition, other rules and regulations as applicable to the work shall be followed. In case of any discrepancy, the more restrictive rule shall be binding.

- 11.2.3** Any material or accessory which may not have been specifically mentioned but which is necessary or usual for satisfactory and trouble free operation and maintenance of the equipment shall be furnished without any extra charge.
- 11.2.4** SITC of Electrical Equipment with all necessary erection accessories and materials, all steel members (angle, channel, plate, steel sheet, etc.) for installation of electrical equipment, GI pipes, GI conduits, bends, clamps, nut, bolts, hot dipped GI ladder type cable trays, tray installation materials & accessories, cable supporting structures, flexible metallic hoses, sealing materials for openings/conduits, single/double compression cable glands, cable lugs, cable tags, cable fasteners, insulating tapes, ferrules, RCC slabs/checker plates, GI/RCC pipes for protection of cables at road crossings and other places, cable markers, cable jointing & termination kits and materials, earthing strips of different sizes, junction boxes, pull boxes, Epoxy paints and all consumable materials for complete laying & termination of cables, earthing system and erection of electrical equipment etc shall be in successful bidder's scope.
- 11.2.5** Obtaining license / certificates/ clearances etc. from appropriate Govt. statutory authority/body for installation and energizing the complete electrical system and necessary Liasoning work for the same shall be in successful bidder's scope. All Expenses including statutory / License fee, etc. for getting, Electrical Inspector approval/ Visits, etc. shall be in the successful bidder's scope.
- 11.2.6** Submission of all engineering documents, GA drawing, drawings **incorporating modifications, if any, done during erection / commissioning**, data sheets, earthing system, layout, All manuals, catalogues, characteristic

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curves, etc. for various electrical equipment/components shall be submitted by successful bidder etc. for review and approval.

- a) In five sets by the successful bidder in hard copy and two sets in soft copy of as-built drawings.
- b) In three sets by the successful bidder in hard copy and two sets in soft copy of Operation & Maintenance (O&M) manual including manufacturer's O&M and preventive maintenance schedule, recommended spares list, etc.

### **11.3 The Basic Design Data to be considered as follows:**

The Electrical equipment system shall be in accordance with standard specifications and shall ensure continuity / reliability of supply, flexibility of operation and safety.

Incoming Supply Conditions	11kV +10%
Frequency	50 Hz +5%
Voltage and Frequency Combined variation	+10%
Fault Level at 11 kV	500 / 350 MVA symmetrical (1 sec) or higher as per Statutory requirement
System Grounding	Solidly Earthed
Fault Level at 415V (Design)	50 kA Symmetrical (1 sec)
Control circuit voltage	230V AC via Constant Voltage Transformer for LT panels and 110V DC for HT Panel via power pack
HV Cabling	3C XLPE,11 kV (E), Extruded Inner sheath

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LV Cabling	Alu. Stranded Conductor XLPE / PVC insulated, Extruded Inner sheath cable
Earthing	Earth Pit: Cu Plate/ G.I. Pipe electrode (Maintenance free Chemical Type) as per IS: 3043 / Specification / Drg.
Changeover Scheme	LTMCC shall have auto/manual changeover scheme from main power supply to DG power supply and vice-versa.
Maximum ambient temperature	50°C
Minimum ambient temperature	5°C
Design Ambient temperature	50°C

**11.3.1** This LT Panel shall in turn feed downstream APFC, MCC, LDBs, PDBs, etc. for feeding various loads.

**11.3.2** In outdoor areas cables shall be mostly buried directly underground with mechanical protection wherever applicable. In indoor areas, cables shall be laid in trenches through Hot Dip Galvanized Iron (GI) Strip Cable Tray.

**11.3.3** Earthing system design and installation shall be generally as per IS: 3043. Earthing system shall be carried out by Hot Dip Galvanized GI strips, electrodes by GI pipes. All equipment shall have two separate and distinct earth points. Earth resistance shall not exceed one ohm at any point.

**11.4 The Basic Technical Specifications to be considered as follows:**

**11.4.1 SPECIFICATION FOR 11kV H. T. SWITCHGEAR (VCB) PANEL**

- The Switchgear system shall be capable of continuous operation at specified rating under the design conditions specified here in.
- The switchgears will be located indoor area as per requirement.
- The de-rating of the Complete panel include Bus bar section shall be done taking

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50°C as an ambient design temperature if it is designed at lower temperature. The maximum temperature in any part of the equipment at specified rating shall not exceed 85 deg. C considering reference **Ambient Temperature as 50°C**.

➤ Applicable standard: IS 13118-191, IEC 62271/100-200, IEEE 1584, IEC 60947

### Technical DATA Sheet

Sr. No.	Particular	Details
<b>1.0</b>	<b>General:</b>	
1.1	Type/ Make	Indoor / As per Approved vendor list (Annexure-D)
1.2	Design Ambient temperature	50°C
1.3	Atmosphere	Corrosive, Humid, Dusty
1.4	Location	Indoor
1.5	Degree of Protection	Enclosure shall conform to the degree of protection IP-45 & IP55 for metering section
<b>2.0</b>	<b>Electrical Data:</b>	
2.1	Type of breaker	Vacuum Circuit Breaker
2.2	Service	Continuous
2.3	Voltage	11 kV $\pm$ 10%
2.4	System earthing	Solidly earthed
2.5	Frequency	50 Hz. + 5% to - 5 %
2.6	No. of phase	3
2.7	System fault level	500 MVA or higher / As per Statutory requirements
2.8	Rated short time current	26.3 kA (1 sec.) or higher as per Statutory requirements
2.9	Max. system voltage	12 kV
2.10	Auxiliary supply: (Power Pack required)	110V D.C derived from Power Pack connected on 110V AC P.T. supply. Power Pack required for Incoming as well as Outgoing feeders.
2.11	Making capacity	46 KA (peak)

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2.12	Busbar material & current rating	Copper & 400 / 630A
2.13	Cable entry	Bottom
2.14	Cable termination space	For 3C x 300 sq. mm, XLPE armored cable
2.15	Breaker particulars:	
	(a) Operating duty	As per IS / IEC
	(b) Operating mechanism	Motor charged spring / manual trip & close
	(c) Spring charging motor	230 V AC, 200 W
	(d) Trip / Closing coil	110 V DC, 180 W
	(e) Anti pumping feature/relay	Required.
	(f) Latching requirement	Trip free
	(g) Emergency trip push button	Required.
	(h) Space heater and cubicle lamp	Required.
2.16	Constructional requirements	
	(a) Thickness of sheet steel for frame, enclosure, doors, covers and partitions	CRCA sheet - 2 mm, hinge type door with neoprene rubber gasket
	(b) Colour	Epoxy powder coating RAL 7035
	(c) Earth bus size	40 x 6 mm. tinned Copper
	(d) Foundation frame	ISM-100, Suitable for three breakers or as per BOQ, with necessary bed plate and foundations bolt.
2.17	Annunciation	To be Provided as per standard
2.18	Digital MFM	
	(a) Accuracy class	Incomer & Outgoing: Cl. 0.5s
2.19	Current Transformer	

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	(a) Type of CT	Cast Resin
	(b) Accuracy class	Incomer & Outgoing: Cl. 0.5
	(c) VA burden	15VA
	(d) CT ratio	As per requirement
2.20	Potential Transformer	
	(a) Type of PT	Cast Resin
	(b) Accuracy class	Dual Secondary core for metering & Protection separately Accuracy class 0.5 & 3P for metering & protection respectively.
	(c) VA burden	200VA
	(d) PT ratio	11kV/ $\sqrt{3}$ / 110V/ $\sqrt{3}$ , 110V/ $\sqrt{3}$
2.21	Panel Accessories	
a)	Toggle switch for space heater and socket	230 V A.C, 6 A
b)	Socket	6 pin 5/15 A with DP MCB
c)	MCB for spring charging motor circuit	6 A, DP MCB
d)	MCB for ON / OFF	Double pole, 16 A, 110 V D.C for D.C ckt. Double pole, 16 A, 230 V A.C for A.C ckt.
e)	Local / Remote selector switch	4 ways, 2 positions, lockable in any position, angular movement, stay put, lever type handle.
f)	Trip – Neutral – Close (TNC) Switch.	6 ways, 3 position, spring return to neutral, angular movement, lockable pistol grip type handle.
g)	Space Heater	230 VA.C, 100 W (LT supply from LT Panel)
h)	Limit switch for test and service position.	Required

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## PROTECTION & MEASUREMENT

### Protective Scheme Requirement

- Main protective relay shall be microprocessor based, current and voltage based/monitoring numerical relays with combined protections and with communication facility as listed in the table given below. Relay shall have minimum 5 logic input and output each, with fault (minimum 10) and event record (Minimum 100). Front USB port for local downloading of fault, event records.
- Auxiliary relays, timers switches etc. required to make the scheme complete shall be considered as part of the scope of work.
- All CT-PT wires shall be brought to test terminal blocks before connecting to circuits.
- The circuits of various protections shall be connected to master trip relays through aux. relays (flag indicated).
- Aux. relays shall be provided for each transformer fault. Connection of the relay shall be through links to facilitate maintenance.
- For control supply distribution, panel to panel separate set of terminal blocks shall be provided. All items/accessories required for above in each panel and in incoming panels shall be provided by the supplier.
- All relays shall be self/hand-reset type with digital/flag indication. NO/NC contacts for relays shall be as per the requirement of approved protection, annunciation & interlock schemes. Wherever required, supplier shall provide aux. relays for contact multiplication.
- Annunciation facia shall be mounted on the switchgear panels and details shall be finalized during drawing approval stage.
- Emergency stay-put type off push button / mechanism to be considered.
- DC supply fails alarm and indication to be considered.
- Draw-out type line PT's, shall be provided on all incomers with suitable 110V AC secondary two winding transformer for Metering and Protection separately of minimum

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Khanij Bhavan, Nr. University Ground, 132ft. Ring Road, Vastrapur, AHMEDABAD-380052, Gujarat, India  
PHONE:(079)27913200/3501 Web:[www.gmdcltd.com](http://www.gmdcltd.com); E-Mail : [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com)



burden 200VA or higher as required .

<b>Sr. No.</b>	<b>Relay</b>	<b>Indication and Monitoring</b>	<b>Digital Type Meter</b>
1	PT fuse failure relay	Phase Indication (R, Y, B)	Ammeter
2	Numerical Relay with RS 485 communication with Combined Protection with configurable Digital input and digital output (min. 5 each), fault record (min.10) and event record (min. 100), for the following:	Breaker ON, OFF, Trip	Voltmeter
2.1	IDMT & Instantaneous 3 O/C + 1 E/F (50,51,50N,51N)	DC supply ON, AC supply ON	MFM with communication Port
2.2	Under voltage & Over voltage with time delay. (27/59)	Spring charge	PF meter
2.3	Trip circuit supervision (95)	Test & Service position,	
2.4	Circuit Breaker Protection/failure (50BF)	Trip circuit healthy	

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2.5	Anti-pumping relay		
3	Master trip relay (High Speed trip relay) with hand reset contact (2 NO & 2 NC Contact)		
4	Aux. relay for WTI, OTI, Bucholz. alarm indication & trip	12 window Annunciation panel or higher as required.	

**Note: Other specifications not mentioned in datasheet shall be considered as per standard specification.**

### Specific Requirements

- The switchgear shall be metal-clad, Extensible on both sides, floor mounted, draw-out type with fuse-less design and suitable for Local/Remote operation (Both control and monitoring). Enclosure shall conform to the degree of protection IP-4X & IP5X for metering section as per IEC 62271/100-200, IEEE 1584, IEC 60947.
- The minimum thickness of sheet steel used shall be 2mm CRCA steel/ AlZn& Gland Plate of 3mm thick.
- The switch gear assembly shall comprise a continuous, dead-front, line-up of free standing, vertical cubicles. Each cubicle shall have a front hinged door with latches and a removable back cover. All covers and doors shall be provided with recessed neoprene gaskets. All doors shall have pad locking arrangement. The swing of the door shall be more than 90 degree.
- The design shall be such that failure of one equipment shall not affect the adjacent units.
- Each cubicle shall be separated from adjacent one by grounded sheet steel barrier and bus sealing arrangement.
- The switchgear panel shall be of arc proof version, with Internal Arc Protection equal to STC of the system i.e. 25KA for 3 Sec. and complete with Numerical protection relays.

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HT Panel shall be as per IEC: 62271-200/IEEE 1584/IEC 60439

- All relays, meters, switches and lamps shall be flush mounted on the respective cubicle door or on control cabinet built on the front of the cubicle.
- Each breaker shall be provided with 6 ways, 3 positions, spring return to neutral, angular movement, lockable pistol grip type handle Trip-Neutral-Close (TNC) Switch.
- Each breaker shall be provided with 4 ways, 2 positions, angular movement, lever type handle Local-Remote selector switch.
- Each switchgear cubicle shall be provided with a thermostat controlled space heater and single phase 3 pin 15Amp plug point & light point operated at 230 V AC. 50 Hz.
- Bus connection from bus compartment to breaker compartment & breaker compartment to cable compartment and bus compartment to adjacent panels shall be through sealed resin cast bushing assembly.
- Each breaker cubicle shall be provided with 'service' and 'test' position limit switches, each having at least 4 NO & 4 NC contacts. The swing of the door shall be more than 90 degree.

### **Bus and Bus Taps**

- Bus bars shall be of uniform cross section throughout the entire length of the switch board and suitable for carrying rated current continuously and short circuit current for specified duration without overheating.
- The main bus bar and connections shall be of high conductivity copper. **Copper bus bars shall be sized for maximum 1.4 A/mm<sup>2</sup> current density only.**
- All Bus bars, Jumpers connection shall be fully insulated for working voltage with adequate phase/ground clearances and shall be sleeved with R,Y,B colour coded heat shrinkable sleeves. Bus bars, links, live parts, etc. shall have non-flammable Epoxy cast-resin shrouds. All jointing hardware shall have nylon caps.
- No paper/cotton based insulation shall be used anywhere in the switch gear.
- Safety shutter, phase barrier, Bus bar seal-off bushing plate, support insulators etc. shall be non- flammable high tracking fibre glass/epoxy insulation system.
- All buses and connections shall be supported and braced to withstand dynamic electro-

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magnetic stresses due to maximum short circuit current and also to take care of any thermal expansion.

### **Earthing /Ground Bus**

- A ground bus shall be minimum 40x6 mm tinned copper or higher as per requirement, shall extend full length of the switchgear in all compartments includes cable compartments etc.
- Each stationary unit shall be connected directly to the ground bus. The frame of each circuit breaker and draw-out P.T. unit shall be grounded through heavy multiple contacts.
- C.T. and P.T. secondary neutrals shall be earthed through removable links so that earth of one circuit may be removed without disturbing other.
- All hinged doors shall be grounded using silver plated and braided copper flexible of adequate size.

### **CIRCUIT BREAKER**

- Circuit breaker shall be triple pole, single throw, Vacuum type / SF6 type, electrically operated (on/off), Draw out type.
- Circuit breaker shall have SERVICE, TEST and DISCONNECTED (ISOLATED) positions with positive indication for each position.
- Circuit breakers of identical rating shall be physically and electrically interchangeable.
- Circuit breaker shall have manual spring charge as well as motor wound charging facility with Mechanical & Electrical anti-pumping features and shunt trip. Motor wound mechanism spring charging shall take place automatically after each breaker closing operation. The motor shall be suitable for operation with voltage variation from 85% to 110% of rated voltage.
- Mechanical safety interlock shall be provided to prevent:
  - a) The circuit breaker from being raked in or out of the service position when the breaker is closed.
  - b) Raking in the circuit breaker unless the control plug is fully engaged.

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- c) Closing & opening of the breaker in an intermediate position between ‘service’ & ‘test’ and between ‘Test’ and ‘Disconnected’ position.
- Automatic safety shutters shall be provided to fully cover the female primary contacts when the breaker is withdrawn from service position.
  - The manual trip device shall be located on the front door & Indicators with shrouds will be visible from front door even when breaker is closed.
  - Each breaker shall be provided with following:
    - a) Auxiliary switch with 6 NO + 6 NC contacts, mounted on the draw-out portion of the switchgear.
    - b) Position/cell switch with minimum 3 NO + 1 NC contacts, one each for TEST and SERVICE position.
    - c) Auxiliary switch, with 4 NO + 4 NC contacts, mounted on the stationary portion of the switchgear and operated mechanically by a sliding lever from the breaker in SERVICE position.
    - d) Trip push button, mechanical ON-OFF indication, an operation counter and mechanism charge/discharge indicator.
  - Limit/auxiliary switches & shall be convertible type i.e. facility for changing N.O. contact to N.C. and vice-versa. Switch contact shall be rated 10A A.C. and 2A D.C. at operating voltage.
  - Each breaker shall be provided with suitable encased rollers.
  - The trip coils shall be operated satisfactorily at voltage between 70 % and 110 % of rated control supply voltage.
  - Each circuit breaker cubicle shall be provided with an earthing facility. Earthing facilities shall be fully interlocked to prevent faulty operation e.g. earthing of live parts.
  - One set of Earthing truck for Cable earthing and Bus earthing shall be supplied along with Panel.
  - For each breaker feeder following DI & DO shall be considered.

<b>DI</b>	<b>DO</b>
Breaker ON	Breaker On

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Breaker Trip	Breaker OFF
Breaker service position	
DC fail	

### Current Transformer

- Current transformers shall be cast resin type and shall be as per IS-2705(Part-1 to 4).
- CT's shall have shorting link on secondary side to facilitate insertion of meters on secondary side without opening CT circuits.
- Accuracy class of the Current Transformers shall be:
  - a) Class PS for differential & restricted earth fault relaying.
  - b) Class 5P10 for other relaying.
  - c) Class 0.5 for MFM.
  - d) ISF < 5 for metering.
- The current transformer shall be capable of safely withstanding the short circuit, stresses corresponding to the fault level as indicated & shall be able to meet the short-time requirement specified.
- All CT secondary shall be earthed through separate switch link on terminal block.
- CT terminals & their polarities shall be clearly marked.

### Voltage Transformer

- Voltage transformer shall be provided in separate cubicle.
- PTs, connection, Insulation levels shall be similar to rating of associated breaker.
- VA burden shall be selected based on requirement for meters, closing, tripping & indicating circuit.
- Voltage Transformer shall be cast-resin, draw-out type, dual core (for secondary) for metering & Protection separately and shall have an accuracy class 0.5 & 3P for metering & protection respectively. Voltage Transformer mounted on breaker carriage is not acceptable.
- The PTs shall be of shell type single phase construction with HRC fuses at both ends and plug-in connection on primary side.

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- High voltage windings of voltage transformer shall be protected by current limiting fuses. The voltage transformer and fuses shall be completely disconnected and visibly grounded in fully draw-out position.
- Control MCB of suitable rating shall be provided on the secondary side to prevent overload. The PTs shall be capable of operating continuously at 110% of the rated voltage, without any damage. When star-star connection is required in non-effectively or under grounded system, the PTs shall be suitable for continuous operation with a persistent phase to ground fault.

### **Indication & Monitoring Instruments**

- Control cabinet, mounted on top of breaker cabinet, provided with suitable anti-vibration facilities & one number heavy duty spring return type TRIP-NORMAL-CLOSE control switch with pistol grip lockable handle.
- Indicating lights in front of compartments as a minimum:

Green	:	Breaker Open
Red	:	Breaker Closed
Amber	:	Auto Trip
White	:	Trip Circuit Healthy
Yellow	:	Breaker Test Position
Blue	:	Breaker Service Position
White	:	DC supply ON
- Indicating Lamp shall be 20ø LED type with series resistance. Lamp and lens shall be replaceable from the front.
- All indicating instruments shall conform to IS: 1248-1983 and IS: 2419-1979, Shall be capable of withstanding system fault current taking account CT saturation, back connected and located in the upper part of the panel.

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## Relays

- All instantaneous current protection relays shall be of 3 pole type.
- Relays shall be rated for operation on 110V DC secondary voltage and 1A secondary current. Number and rating of relay contacts shall suit the job requirements.
- All relays shall furnish, install & co-ordinate to suit the protection and interlock requirement of VCB Panel.
- Relay shall be Low burden, provided with RS 485 Computer communication Port for monitoring & operation from Remote location / PLC with suitable Software.

## Meters

- Indicating instruments shall be mini. 96sq.mm dial flush mounted digital type with accuracy class 0.5 minimum.
- Digital type Multi-function Meter shall be three line display of Accuracy Class: 0.5s for incomer & outgoing and Suitable for measuring and digitally displaying the following parameters: kVA, kW, kWh, kVAh, kVAr, kVArh, A, V, P.F., frequency, Harmonic, MD measurement and control (Md control only in incomer feeder). Minimum 2nos. Digital Output shall be available. Each meter will be provided with at least two output signals of 4-20mA and communication port (RS 485) for all the above parameters for monitoring & operation from Remote location / PLC with suitable Software.
- Meter selector switches shall maintain firm contact, stay put type with knob handle. Ammeter selector switches shall be four-position type having make before break contacts to prevent open circuit of CT secondary.

## Annunciation

- Shall be static type suitable to work on AC supply as specified.
- Hooter and bell for trip and alarm indication respectively.
- Test, accept and reset facilities (with push button) shall be provided on each panel.
- Suitable audio-visual indication shall be provided on DC failure. Audio alarm with reset

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facility shall be provided. Visual indication shall be panel-wise.

- Spare annunciation points shall be wired up to terminal blocks. 20% spare facia shall be provided
- Sequence shall be as follows:

	<b>VISUAL</b>	<b>AUDIO</b>
On Occurring of Fault	Flashing	On
On Accepting	Steady On	Off
On Reset (Fault Cleared)	Off	Off
On Reset (Fault Persists)	Steady On	Off

- Warning and emergency points shall be as per the list approved during detail engineering stage.
- One common point shall be provided to indicate operation of annunciation system of the complete board (in case of any trouble in the board in tie feeder, bus coupler, incomer, etc.). Remote and annunciation facia window detail shall be finalized during detail engineering.
- A common audible alarm for each switchgear line-up shall be provided to alert the operator that circuit breaker has tripped. Means shall be provided for silencing the audible alarm whilst leaving it free to sound when any other alarm is initiated but the associated alarm indications shall continue until cancelled.

### **Secondary Wiring**

- The switchgear shall be fully wired at the factory to ensure proper functioning of control, protection, transfer and interlocking schemes.
- Control MCB of suitable rating shall be provided to permit individual circuit isolation from bus wires without disturbing other circuits. All spare contacts of relays, switches and other devices shall be wired up to terminal blocks.
- Wiring shall be done with flexible, 650V grade; FRLS PVC insulated wires with stranded copper conductors of 1.5mm<sup>2</sup> for control current circuits and voltage circuits. All power wiring like space heater supply, etc. shall be carried out with min. 2.5mm<sup>2</sup> PVC insulated

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Copper Conductor wire.

- Each wire shall be identified, at both ends, with dependent & cross addressing permanent markers bearing wire numbers. Trip circuit shall have red colour ferrule.
- Wire termination shall be made with crimping type ring connectors with insulating sleeves. Wires shall not be spliced between terminals.
- The wires shall run preferably through PVC channel with cover adequately supported along its run to prevent sagging due to flexibility or vibration. The control & power wires shall be routed through separate channels.
- Inter-panel wiring PVC channel shall be furnished for wiring between switchgear cubicles. All wiring required for interlocking between the cubicles of any switchgear shall be furnished and installed. Wherever wires are passing through cut outs or openings they shall be protected by providing suitable grommet or gasket around the openings. Inter panel wiring at shipping sections shall be through terminal blocks placed suitably at intersection points.
- The colour of wire shall be taken as follows:

AC System	:	Black
DC System	:	Grey
Earthing System	:	Green
CT & PT Wiring System	:	Red, Yellow, Blue, color code

### **Terminal Blocks**

- Terminal blocks shall be 660V grade box-clamp type with 10 mm<sup>2</sup> marking strips.
- Terminal for P.T. Secondary lead shall be disconnecting link type. Power wiring circuits and PT secondary wiring circuits shall be terminated by bolt type terminal blocks and rest by screw type terminal blocks.
- Not more than two wires shall be connected to any terminal. Spare terminals equal in number to 20% active terminals shall be furnished. Multi connection terminal strip to be used if required.

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- Wiring shall be so arranged that an external cable can be connected to consecutive terminals.
- Terminal blocks for external / Space Heater wiring shall be separate from inter panel wiring.
- All control wire shall be terminated with ring type insulated lug only.
- The terminal block shall be grouped according to circuit functions and individual terminals in each block shall be serially numbered in accordance with the drawings. Such numbering shall be legible, permanent and indelible.
- Communication port of Meters & relays of individual breaker panel shall be looped together and brought out at External Terminal Connector/block using instrument signal cable 1 pair, Annealed tinned copper conductor flexible cable.
- All spare contacts of Breaker, CT, Relay, Annunciator etc. shall be wired upto external TB.

### **Cable Termination**

- Switchgear shall be designed for cable entry from the bottom. Sufficient space shall be provided for ease of termination and connection with suitable size gland plates with knock out plates for specified HT Cable connection.
- The design of the cable box shall be such that any type of jointing methods such as heat shrinkable/push on type/cold shrinkable type termination can be adopted.

### **Space Heaters and Plug Sockets**

- Each cubicle shall be provided with thermostat controlled space heaters and 5/15A, 6 pin plug socket, panel illumination lamp. Cubicle heater, Plug/socket circuits shall have Individual MCBs.
- 230 V A.C Supply to the HT panel will be made provided by client.

### **Auxiliary Power & Control Supply**

- a) Control Voltage shall be for

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- Closing, Tripping Coil : 110 V DC
- Indication Circuit : 110 V AC
- Spring Charging Motor,  
Panel space Heater, 3 pin socket &  
Panel illumination : 230 V A.C.

- Bus-wires of adequate (minimum 4sq.mm copper) capacity shall be provided to distribute the incoming supplies to different cubicles.
- DP MCB shall be provided at the switchgear for the incoming supplies 230 V A.C. supply & 110V DC supply (as applicable).
- Battery backup Power pack unit shall be provided for each VCB panel for 110V AC / 110V DC for closing and trip CKT suitable for min. Two Successive open & close operations after failure of power. Power Pack connected on 110V AC P.T. supply OR 110V DC, min 100AH or higher as required Battery and Battery Charger & DCDB shall be provided as specified in scope of work.

### **Tropical Protection**

- All equipment, accessories and wiring shall have fungus protection involving special treatment of insulation and metal against fungus, insects & corrosion.
- Screens of stainless steel shall be furnished on all ventilating louvers to prevent the entrance of insects.

### **Name Plates**

- Name plates shall be provided as per standard.

### **Painting**

- The HT Panel shall be treated with seven tank process with cleaning of scale, grease rust and foreign adhering matter & chemical de-rusting, sand blasting, degreasing, pickling in acid bath and phosphating as per IS : 6005 and primed.

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- After cleaning, the surfaces shall be given 2 coats of epoxy primer.
- After seven tank process and primer coating the HT Panel shall be powder coated with RAL-7035 for inside and outside of the entire HT Panel.

#### **11.4.2 SPECIFICATION FOR L.T. SWITCHGEAR (ACB) PANEL**

##### **Technical DATA Sheet**

<b>SR. NO.</b>	<b>PARTICULAR</b>	<b>DETAILS</b>
1.0	<b>General:</b>	
1.1	Type/Make	Indoor / As per Approved vendor list (Annexure-D)
1.2	Mounting	Floor
1.3	Design Ambient Temperature	50° C
1.4	Atmosphere	Corrosive, Humid and Dusty
2.0	<b>CONSTRUCTION</b>	
2.1	Housing	2.0 mm thick CRCA sheet for Body, Partition, Cover/door
2.2	Protection Class	IP-55
2.4	Base channel	100 x50 x5 mm Channel
2.5	Shipping section length	2500mm (Max)
2.6	Side sheets for shipping section	Full side sheet on both side of shipping section
3.0	<b>OPERATIVE CONDITION</b>	
3.1	Voltage	415V±10%
3.2	No. of phase	3
3.3	System	3phase,4wire

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3.4	Frequency	50Hz, +5%/-5%
3.5	Fault Current	50kA
3.6	Neutral Grounding	Solid
4.0	CONTROLSYSTEM	
4.1	Voltage	
	For Indication	230VA.C.
	For Metering	230VA.C.
	For Protection	230VA.C.
4.2	Control Supply Through Constant Voltage Transformer	230VA.C.
4.3	Wiring	Control wiring: 1.5mm <sup>2</sup> FRLS PVC Cu flexible Wire (Grey); CT wiring 2.5 mm <sup>2</sup> Color coded
5.0	BUSBAR	
5.1	Phase Bus bar Material	EC grade Aluminium
5.2	Neutral Bus bar Material	Same as Phase Bus bar.
5.3	Earth Bus bar Material	65 x 10mm (Hot Dip Galvanised Strip) OR 40 x 10mm (EC grade AL)
5.4	Current density (minimum)	1 sq.mm = 0.8 A minimum. Size of busbar based on Design temperature, KA level and minimum Current density
5.5	Hard ware	High Tensile Steel Bolts, Nuts and Washers duly Zinc/ Cd Passivated shall be used for all bus bars joints and

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		supports.
6.0	ACB	
6.1	Type, No of poles	ACB, 4 Pole
6.2	Display of Metering	MFM with communication Port
6.3	Communication port	Inbuilt RS 485 (on MODBUS/ Ethernet/- )
7.0	MCCB (Ics= 100% Icu)	
7.1	MCCB	
8.2	For rating above 200A	Microprocessor based release with O/L, S/C, inbuilt E/F, 50 KA, 3/4 pole
8.3	For rating up to& including 200A	Thermal Magnetic based release with Adjustable O/L, Adjustable S/C, 50 KA, 3/4 pole
8.4	Accessories	Extended Rotary Handle, Terminal spreader, Auxiliary change over contact+ Trip Contact : To be provided
9.0	Protection/ interface	As per following
		<ol style="list-style-type: none"> <li>1)overcurrent</li> <li>2)short circuit</li> <li>3)Earth Fault</li> <li>4)Current unbalance</li> <li>5)phase loss/ reversal</li> <li>6)under current (dry run)</li> <li>7)stall (bearing broken)</li> <li>8) locked rotor</li> <li>9)Ground/Earth fault /leakage (ZCT)</li> <li>10)Single Phasing with Under voltage and Over Voltage</li> </ol>

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Khanij Bhavan, Nr. University Ground, 132ft. Ring Road, Vastrapur, AHMEDABAD-380052, Gujarat, India  
PHONE:(079)27913200/3501 Web:[www.gmdcltd.com](http://www.gmdcltd.com); E-Mail : [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com)



		11)Over temperature (With PTC Thermister) 12) 3Programmable DI & 2 Programmable DO 13)Fault record, Start/Stop, Run Hrs. Max Starting current record.
10.0	PAINTING	
10.1	Sheet should be 7 tank processed, 2 coats of primer, Oven Baked at310°C with powder coating.	Required
10.2	Colour & Shade & thickness: Panel Exterior & Interior	RAL 7035 Thickness: Minimum 100 Micron
10.3	Mounting plate	Glossy white
11.0	Current Transformer	
11.1	Type	Resin Cast
11.2	Class of Accuracy	Cl : 0.5 for MFM, APFC load sensing, Summation, MPR Cl: 1 for Ammeter
11.3	Burden (VA)	As per specification
12.0	Control Wiring	FRLS PVC Copper Flexible 1.5 sq. mm : control wiring 2.5 sq.mm: CT wiring
13.0	Hardware	YES. For bus bar joints High Tensile With Zink passivation/Cd plated
14.0	Space Heater	230VA.C. witht Thermostat
15.0	Pocket For Drawings at door	YES.
16.0	Instrumentation compartment	Separate compartment for energy meter, Hour meter, level controller, etc. with necessary internal wiring

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17.0	Panel Internal Lighting	LED light 3W with Auto NO contact/switch with Panel door
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**Note: Other specifications not mentioned in datasheet shall be considered as per standard specification.**

- The panel shall be totally enclosed and dust, damp & vermin proof. Enclosure shall have IP-55 or better degree of protection.
- Panel shall conform to Indian Electricity Act and rules CEA Notification/ Guidelines, CPWD guidelines 2019 as amended up-to date and shall be as a minimum.
- All hardware shall be corrosion resistant. Star washers shall be used for effective continuity.
- Suitable lifting hooks and jacking pads shall be provided on each panel or on each shipping section for ease of lifting of switchboard.
- Minimum dimension of Incomer, Bus-coupler, Starter , MCCB cubical compartment shall be as per the Table. Height of Main Horizontal Bus bars chamber shall be minimum 350mm and Vertical bus bar shall be Min. 300mm or higher as per KA level and temperature rise required. Minimum width of cable alley shall be 350mm or higher as per number of cable.
- Control MCB shall be provided for control wiring circuit. Panel shall be of Fuse less design.
- LT Panel shall be of fixed type, single/double front. LT Panel shall be single tier for all incomers, bus couplers.
- All auxiliary devices for control, metering, protection, indication & measurement such as push-buttons, control and selector switches, indicating lamps, Ammeters, Voltmeters, kWh meters and protective relays shall be mounted on the front side of respective compartment, for easy operation without opening the door. Metering cubicle shall be separate/independent of ACB/ MCCB incomer feeder.
- Circuit breakers capability/suitability to interrupt applicable capacitive current shall be

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specifically verified / supported by manufacturer recommendation.

- MCCB shall be TPN/4P, Microprocessor based release/ TM release as specified elsewhere. All MCCB's shall be suitable for  $I_{cs} = 100\% I_{cu}$ . The rated service short-circuit breaking capacity ( $I_{cs}$ ) of MCCBs shall be more than or equal to the specified fault level. MCCB shall be supplied with Extended rotary handle, Terminal spreader, Auxiliary C/O + Trip contact as applicable.
- Panel shall have Main horizontal and riser bus bars air insulated, with coloured Heat shrinkable sleeves, housed in a separate compartment, segregated from all other compartments, with sheet steel barriers, sufficient louvers with wire mesh for air circulation.
- The LT panels shall be provided with a continuous earth bus having sufficient cross section to carry the specified fault current for specified duration without exceeding the safe temperature throughout its entire length.
- All control wiring except C.T. secondary wiring shall be carried out with minimum 1.5 mm<sup>2</sup> FRLS PVC copper flexible wires (Grey). C.T. secondary wiring shall be carried out with 2.5 mm<sup>2</sup> FRLS PVC copper flexible wires (Color coded).
- Adequately rated anti-condensation heater with porcelain connectors shall be provided in each breaker panel and in cable alley to maintain inside temperature 5 deg C above outside ambient temperature. It shall be supplied from 240V AC auxiliary bus for space heater. The space heater shall be provided with a thermostat having variable setting of 30-70 deg C and manually operated switch fuse and link for phase and neutral respectively.
- 240V AC control supply shall be fed from 415/240V AC Constant Voltage/control voltage Transformer, one number on each bus of minimum 1.5 KVA rating or higher suitable for connected total working load. Suitable control logic through contactors shall be provided such that Control supply is available to all feeders based on Incomer -1 & Incomer-2 status. Only one control transformer shall be ON at a time. Separate control transformer of suitable rating shall be provided for Incomers. DP MCB of suitable rating shall be provided on both Incoming as well as outgoing side of control transformer.

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- All CTs, PTs and Constant Voltage transformer shall be cast resin type with terminals. CT shorting link type control terminal shall be provided. Only Ring type lugs shall be used for CT termination.

### **Bus Bar**

- Busbars shall be of high conductivity, electrolytic aluminium (E91E), suitable for carrying the rated and short time current without overheating supported on insulators made of non- hygroscopic, non-flammable material to ensure free thermal expansion. With tracking index equal to or more than that defined in IS.
- Aluminium bus bars shall be sized for maximum 0.8 A/mm<sup>2</sup> current density only.
- Whenever Incoming supply is through BUSDUCT, Incoming Bus-bar of Incomer shall be extended till the top end of panel and phase positioning/ orientation of bus bars shall be suitable for Transformer LT terminal arrangement to avoid additional Phase cross over chamber.
- Bus bars for risers shall be rated to carry minimum 80% or higher of the rated current of all feeders connected to the risers.
- The current rating of neutral shall be min. half that of phase busbars. For LDB neutral rating shall be equal to that of phase busbar
- Both horizontal and vertical TP & N, bus bars, bus joints and supports shall be capable of withstanding dynamic and thermal stresses of the specified short circuit currents for 1 second.
- Only High Tensile Steel Bolts, Nuts and Washers duly zinc passivated or cadmium shall be used for all bus bars joints and supports.
- The hot spot temperature of bus bars including joints at design temperature shall not exceed 85 deg C for normal operating conditions.
- All bus bars shall be insulated with heat shrunk PVC sleeves of 1100V grade.
- The bus bars shall be arranged such that minimum clearance between the bus bar for 50KA fault current shall be maintained as below:

- Between phases : 27 mm minimum

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- Between Phase and Neutral : 25 mm minimum
- Between phase and Earth : 25 mm minimum

For the requirement of 65KA for 1 sec, necessary clearance as per the relevant IS shall be maintained.

### **Earthing**

- The minimum earth bus size shall be minimum 65x10mm ( Hot dip galvanised strip) or 40 x10 mm (Aluminium) or higher to suit the Fault Level/ KA requirement.
- All doors and movable parts shall be earthed using minimum 1.5 mm<sup>2</sup> FRLS Copper flexible wires (Green colour) to the fixed frame of the switch board. Provision shall be made to connect the earthing bus bar to the plant earthing grid at two ends. All non-current carrying metallic parts of the mounted equipment shall be earthed. Minimum 4 nos., 10mm diahole shall be provided on the earth bus for termination of earth strip / wire.

### **Auxiliary Supply Bus-bars**

- Auxiliary control bus bars of suitable rated size shall be provided. Control MCB shall be provided for individual feeder.
- Auxiliary bus shall be provided for following application. Exact size/capacity of bus bar shall depend on various controls, metering and auxiliary power distribution requirement.
  - Panel space heater supply.
  - Control supply for breaker tripping, closing and indication circuits.
  - Control supply for breaker spring charging motors.
  - AC potential supply for MFM, Meters, voltage operated relays, etc.

### **Air Circuit Breakers**

- Circuit breakers shall be air break, Electrical Draw Out type for feeders 630A and above. ACB shall be with Microprocessor based release with Overload, Short circuit and inbuilt Earth Fault protection.
- The ACB shall be min. 50kA (1 Sec.) or higher as per fault rating, ICS = 100% ICU=

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Icw. All ACBs shall comply and tested as per IS – 13947 / IEC 60947-1 and IEC 60947-2 standards.

- ACB for all Incoming, Bus coupler Feeder should be Four Pole Type.
- ACB for Incoming and Bus-coupler shall be identical and interchangeable.

**ACB Trip Release LSIG (Micro Processor based) should have Minimum following.**

- Overload with time delay
- S/C with time delay and Inst. Trip Setting
- Earth Fault with Time Delay.
- Under/over Voltage for incomer
- LSIG Fault record Display ( ONLY FOR INCOMER & Bus-coupler)
- Metering & Energy display ( ONLY FOR INCOMER & Bus-coupler)
- Ammeter display (For Outgoing feeders)

**ACB shall be fitted with following.**

- Heavy duty switches having not less than 4 NO + 4NC contacts
- Built in resin cast current transformer
- Shunt and under voltage tripping device.
- The ACB shall be suitable for locking the breaker in various positions. Interlocks shall be provided to: Prevent the breaker from being isolated unless it is in the ‘OFF’ Position; Prevent the breaker from being racked in to the service position unless it is in the ‘OFF’ position; Prevent the breaker from being accidentally pulled completely ‘OFF’ the guide rail.
- Safety shutters of an insulation material shall be provided to prevent access to all live contacts, when the breaker is in the inspection position or completely withdrawn.

**Molded Case Circuit Breakers (MCCB)**

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PHONE:(079)27913200/3501 Web:[www.gmdcltd.com](http://www.gmdcltd.com); E-Mail : [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com)



- All MCCBs shall be comply and tested as per IS - 2516 / IEC 60947-1& IEC 60947-2 standards.
- Incomer MCCB's shall be 4P, 50 KA or higher (and  $I_{cs} = 100\% I_{cu}$ ) with Micro-processor based release with in-built O/C, S/C and E/F protection. Outgoing MCCB TPN for power feeders up-to and including 200A shall be with thermal magnetic release with adjustable Overload, Adjustable Short Circuit protection. Outgoing MCCB's from 250A & above shall be with Microprocessor based release with in-built O/C, S/C and E/F protection. All MCCBs shall be with Extended Rotary Handle and Terminal Spreader. Auxiliary change over contact 1 No + 1 NC and Trip Contact shall be provided as per the requirement.
- Switches/ Fuses  
The switches or fuse switches shall be load break, heavy duty / motor duty, air break type provided with quick make/break manual operating mechanism. The operating handle shall be mounted on the door of the compartment having the switch. Fuses shall be non-deteriorating HRC cartridge link type.

### **Instrument Transformers (CTs/PTs)**

- Current transformer & potential transformer shall generally conform to IS: 2705, IS/IEC: 60044- 122 and any special requirement w.r.t. numerical relay shall be taken care of by the successful bidder . All CTs shall be Resin cast type and secondary 5A. APFC feedback CTs, MFM CTs, MPR CTs shall be of Class-0.5 and 10VA. CT's (60A and above) of Digital Ammeter, APFC panel metering shall be  $C1 : 1$  and 5 VA. CTs less than 60A shall be  $C1 1.0$  and 2.5VA.
- The current transformers in breaker feeders shall be capable of withstanding the applicable peak momentary short circuit and the symmetrical short circuit current for 1.0 sec.

### **Indicating / Measuring Instruments**

- The meters shall be Digital type and generally of square pattern type of 96 x 96 mm suitable for flush mounting. Instrument shall generally conform to IS: 1248 & shall have

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accuracy class of 1.0 or better.

- Digital meters shall have 3 ½ Digit, LCD display as a minimum
- Digital type Multi-function Meter shall be with 3 line display, Accuracy Class: 0.5 Suitable for measuring and displaying the following parameters: A,V,F,PF,KW,KWH, KVA, KVAR, KVARh, Md, Harmonic & with inbuilt RS 485 communication port.(Schneider- EM 6400NG; L&T –MFM 4420; Secure – Elite 445 ; eqv. model of other approved make). Data sheet with parameter comparison shall be submitted for approval.
- MFM shall be provided for all outgoing feeder of LT panel.

### **Indicating Lamps**

- Colour shade for the indicating lamps shall be as below LED type:
  - ON indicating lamp : Red
  - OFF indicating lamp : Green
  - TRIP indicating lamp : Amber
  - PHASE indicating lamp : Red, Yellow and
  - Blue TRIP circuit healthy lamp :Milky

### **Power and Control Wiring and Terminal Blocks**

- All wiring shall be done with IS approved FRLS PVC copper flexible wires. The insulation grade for these wires shall be 660V grade. The control wiring shall be enclosed in plastic channels/Race way and neatly bunched together.
- Control circuit wiring shall be FRLS PVC copper flexible wire of minimum 1.5 mm<sup>2</sup> size and CT circuit wiring shall be minimum 2.5 mm<sup>2</sup> size . CT wiring shall be R Y B BK colour coded and Terminals shall be CT Shorting link type only. Power wiring inside the starter module/ MCCB/MCB shall be rated for full current rating of Feeder MCCB/MCB.
- All feeder modules shall be provided with neutral link. Suitable size & Rating Terminal blocks shall be provided for all outgoing feeders in the cable alley for connecting Power & Control cables. Cable shall never be connected directly to MCCB/ MCB terminal.

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- Flexible wire shall be used only upto& including 63A MCB/MCCB, above 63A bus bar shall be used. Minimum size of FRLS Copper wire shall be up to & incl. 10A: 2.5 mm<sup>2</sup>; 16A: 4 mm<sup>2</sup>; 20A: 6 mm<sup>2</sup>; 32A: 10 mm<sup>2</sup>; 40/50A: 16 mm<sup>2</sup>; 63A: 25 mm<sup>2</sup>.
- Each wire shall be identified at both ends by PVC ferrules.
- Inter panel wiring shall be done through rubber grommets.
- A minimum of 2 nos. or 20%, whichever is higher, spare terminals shall be provided on each terminal block.
- Marking on the terminal strips shall correspond to wire numbers on the wiring diagrams. All spare contacts and terminal of panel mounted equipment and devices shall be wired to terminal blocks.

#### **FIXED COMPENSATION FEEDER:**

- Fixed Capacitor for transformer compensation (for no load as well as leakage reactance) shall be provided. Shall not be mounted below Incomer/ Bus coupler feeder. MCCB 50 KA or higher as per specification mentioned elsewhere along with Ammeter, CT 3 nos, Capacitor duty contactor, ON Delay timer, Heavy duty capacitor unit of suitable rating as per TFR KVA rating.

#### **Name Plate**

- Nameplates shall be provided as per standard.

#### **Painting**

- The LT Panel shall be treated with seven tank/ Nine tank process with Degreasing, Water rinsing, De-rusting, Water rinsing, Phosphating, Water Rinsing, Passivation.
- After 7 tank cleaning, the surfaces shall be given 2 coats of epoxy primer.
- After seven tank process and primer coating the external paint shall be powder coated with Siemens grey RAL-7035 for inside and outside of LT Panel.
- Mounting plate shall be painted Glossy white.
  - Thickness of paint shall be between 100 Micron to 120 Micron.

#### **Danger Notice Plates:**

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- The danger notice plate shall be affixed in a permanent manner on operating side of the Panels.
- The danger notice plate shall indicate danger notice both in Hindi and English and local language with a sign of skull and bones as per IS 2551.

#### **11.4.3 Drawing Approval**

- Prior to fabrication of the Panels the successful bidder shall submit following details to GMDC for approval.
- GA drawing with front door open with mounting plate details and equipment, sectional elevation, single line diagram, Power/ Wiring drawing, manufacturer technical catalogue of major equipments bill of material, drawing consisting of Technical data sheet and design calculations, short circuiting rating of all the electrical components used, bus bar size and calculation, Power/ control wiring size, Panels dimension, colour, mounting details etc.
- The successful bidder shall submit like ACB, Soft Starter/ VFD, MPR of offered make/model for approval along with drawings.

#### **11.4.4 Inspection & Tests**

The switchgear shall be completely assembled, wired, adjusted inspected and tested at the factory as per the relevant standards.

##### **➤ Test Witness**

The successful bidder shall perform factory tests as per IS /IEC std./ Specs., on equipment in presence of GMDC's representative at successful bidder 's cost. The test results shall be recorded on a prescribed form

##### **➤ Routine Test**

The tests shall include but not necessarily limited to the following for switchgear:

- a) Operation under simulated service condition to ensure accuracy of wiring, correctness of control scheme & proper functioning of the equipment.

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- b) All wiring and current carrying part shall be given appropriate High Voltage test.
- c) Primary current and voltage shall be applied to all instrument transformers.
- d) Routine test shall be carried out on all equipment such as circuit breakers, instrument transformers, meters etc.
- e) Power frequency withstands insulation HV test for main circuits, auxiliary & control circuit as per relevant-IS.
- f) Milli-volt drop test across main contacts of each phase of VCB and close and open time test for VCB shall be a part of Routine test.

➤ **Test Certificate**

- a) Certified reports of all the tests carried out at the works shall be furnished in Two (2) copies for approval to GMDC.
- b) The equipment shall be dispatched from works only after receipt of GMDC's written approval of the test reports.
- c) The test report shall furnish complete identification of the equipment such as serial no., rating, equipment designation as per schematic etc. & date of test.

**11.4.5 Details of work to be carried out:**

- The MCC panels should work satisfactory after final test carried out at workplace. If any abnormality observed, then the successful bidder has to rectify the same without any cost to GMDC and it shall be in scope of successful bidder.
- All above mentioned Electrical work will be carried out under direct Supervision of GMDC Electrical representative & the successful Bidder shall have to work as per his instructions.
- After erection of all equipment's under this contract and getting due clearance of electrical inspector, the System shall be taken in service and shall be under observation for at least 72 hours of trouble-free performance for commissioning of the system.

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- All required civil structures like Earthing / earthing pit, etc. shall be in the successful bidder's scope.
- This work would be permitted strictly during office working hours only. In case of exigency, however, the Successful bidder will have to seek prior written permission for the purpose to work on weekly day of rest and / or paid holiday from the maintenance department. The decision of maintenance department in charge will be final in this regard.
- If any specification is different from the specification mentioned in the tender documents but the differed specification is as per ISO, the maintenance department in charge can approve to use that specification.
- Complete Health test of the entire MCC should be carried by the successful bidder along with Bus Bar, Incoming & Outgoing power cables, control cables, Metering/ Monitoring equipment's, protection equipment's, etc. along with test certificate.
- The work should be carried out and tested up to the satisfaction of GMDC. The successful bidder is required to adhere to all statutory norms. The successful bidder shall be solely responsible for safety of its manpower.
- The Successful Bidder shall submit final test certificate to GMDC Corporate Office- Ahmedabad, along with warranty period.
- Scrap Material: Any scrap material envisaged from the panels will be retained by the successful bidder. However, party shall not destroy/dispose this material till the work is completed and clearance given by GMDC representative.
- Training: The Successful Bidder has to help GMDC's technical team at some basic requirement to operate the panels after completion.
- All safety precaution shall be taken by the successful bidder.
- All types of transportation shall be in bidder's scope.

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- For Transportation of materials required Hydra, Crane, loaded vehicle in successful bidder's scope.
- The successful bidder shall engage skilled and sufficient manpower and resources for timely completion of job.
- The successful bidder shall ensure all safety measures of manpower, machines, etc.
- If any part gets damaged by the act of bidder, replacement shall be carried out by bidder on urgent basis free of cost to GMDC.
- The works shall have to be carried out as per work order in totality by the successful bidder.
- All types of consumables material like cotton waste, scrubber, emery paper, cleaner spray, nut bolts, washer, sealant, packing etc. shall be in successful bidder's scope.
- All types of required machines, power tools, vehicles, tools, tackles and testing equipments with manpower for carrying out above work in scheduled time shall be in successful bidder's scope.
- Proper care should be taken not to damage any equipment while carrying out any work. In case any damages done, then the bidder shall repair / replace the equipment in working condition with test certificate. Else, the Liquidated damage of cost of new respective damaged equipment + 15% processing fee shall be levied on the bidder.
- The successful bidder shall abide by and ensure compliance of all labor laws, insurance, workman compensation act & all applicable statutory rules and regulations for subject work.
- The successful bidder must fulfill all the safety regulations and take all necessary safety measures to avoid any hazard and shall be strictly followed by persons deployed by the successful bidder for the job.

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- The successful bidder shall be solely responsible for any accident / Incident to the successful bidder's workers and should adhere to all rules and regulations as per labor laws of Government and other statutory authority. The successful bidder shall ensure that all persons employed by the successful bidder use personal protective equipments.

**11.4.6 SPECIAL TERMS AND CONDITION OF THE CONTRACT WITH  
REFERENCE TO SCOPE OF WORK:**

1. All type of Mobilization, demobilization and local conveyance for crew deployed for the work shall be in the successful bidder's scope. The successful bidder shall submit list of crew members including supervisor, engineer, and materials for preparing gate pass before executing the job.
2. Lighting arrangement shall be in accordance with safety norm shall be in the successful bidder's scope.
3. The successful bidder shall submit Daily progress report.
4. The successful bidder shall abide by and ensure compliance of all labor laws, insurance, workman compensation act & all applicable statutory rules and regulations for subject work.
5. Successful bidder has to arrange temporary power arrangement during the work as specific location till complete the work with required material.
6. Successful bidder has to follow codes and standards as per Annexure C
7. The successful bidder must fulfill all the safety regulations and take all necessary safety measures to avoid any hazard and shall be strictly followed by persons deployed by the successful bidder for the job. To ensure safety regulations, instruction and directives given by GMDC safety officer shall be final and binding to the successful Bidder.

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PHONE:(079)27913200/3501 Web:[www.gmdcltd.com](http://www.gmdcltd.com); E-Mail : [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com)



8. The successful bidder shall be solely responsible for any accident to his / their workers and should adhere to all rules and regulations as per labor laws of Government and other statutory authority. The successful bidder shall ensure that all persons employed by the successful bidder use personal protective equipment's.
9. The successful bidder shall keep GMDC indemnified from all liabilities arising out of his action in pursuance of this contract.
10. All persons deployed by the successful bidder shall maintain due discipline and GMDC reserves the right to take disciplinary action if required.
11. The Successful Bidder shall keep one or more nominated competent person(s) as a Supervisor in each area of work to supervise quality of work and effective progress of work as scheduled and report submission to GMDC Engineer-in-charge.
12. All the tools & tackles required to carry out the work shall be in the successful bidder's scope.
13. All works related to hoists, Cranes, and other lifting tools, etc. for lifting, shifting of the materials is in the successful bidder's scope. The successful bidder has to arrange all resources for the same. Any reason for delay of the work for the want of the resources shall not be considered.
14. For the items, which are not supplied, or the works, which are not being carried out by the successful bidder, as the case may be, shall be completed at the risk and cost of the successful bidder.
15. The successful bidder must be acquainted with all Management Information System and has to submit work plan and Bar Chart immediately on receipt of work order, and adherence shall be strictly monitored.
16. The successful bidder shall attend morning meeting at any time called by GMDC management and shall apprise day to day work progress carried out during the work.
17. The successful Bidder shall submit a daily report of deployed manpower in the

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format as provided by GMDC Engineer-in-charge.

18. The successful Bidder shall have to follow all safety norms. The successful Bidder shall be responsible for safety of equipments and plants. If any damages occur then the successful Bidder shall be responsible for repairing the damages made to the equipments and plant of GMDC and compensate for the cost of damages.

#### **11.4.7 Post up gradation Support:**

The Successful Bidder shall provide an active spares and service support to GMDC , for a minimum of 5 years.

GMDC shall formally register a request for support as and when needed, to which, the Successful Bidder shall respond within 1 working day.

GMDC also reserves a right, but not an obligation, to invite the Successful Bidder to execute an inspection of HT & LT switchgear panel for 05 years to identify any potential existing/future potential issues with the system.

The Successful Bidder shall provide all the necessary support to fulfill GMDC's request in a timely manner.

#### **12. Period and Duration of Work**

12.1 The contract period shall be given as under:

- a) Contract period is 6 months from the date of acceptance of LOI, However, period of contract may be extended for another period of three months with the same terms and conditions at the sole discretion of GMDC.
- b) Time and quality are the essence of the contract and successful bidder has to complete the work accordingly. Looking to this, Successful bidder has to complete the work as per below time limit.

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Sr. No.	Description of Work	Work Time limit
1	Supply of HT MCC & LT MCC Panel (Both)	Within 10 weeks after issue of LOI
2	Disconnection of Existing old MCC panel and Installation, commissioning Testing work and switch over to new MCC panels with successful trial run of HT MCC Panel	Complete the work within 48 hrs. as per the plan date intimated well in advance before one week from GMDC
3	Disconnection of Existing old MCC panel and Installation, commissioning Testing work and switch over to new MCC panels with successful trial run of LT MCC Panel	Complete the work within 48 hrs. as per the plan date intimated well in advance before one week from GMDC
4	Disposal of old HT MCC & LT MCC (Buyback)	Within one week after completion of work.

**12.2** In case of any reason including adverse working conditions during execution of the contract that may compel suspension/closure of the contract, GMDC shall be at liberty to conclude/postpone/complete/terminate/foreclose this contract. No compensation or payment shall be made on account of afore-stated events. Decision of GMDC in this regard shall be final and binding to the successful Bidder.

**12.3** GMDC reserves the right to review and assess the performance of the work at any time during the contract period. In case of poor or unsatisfactory performance and/or breach of any terms and conditions of the contract, GMDC shall have discretion to take appropriate action including termination of the contract.

**12.4** All the activities arising under the scope of the works shall be complied with various statute/laws/Rules/Regulations etc. including Environmental laws and if the successful

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Bidder fails to comply the laws; it will be done at the risk and cost of the successful Bidder and expenses will be recovered from Bills of the successful Bidder.

### **13. Liquidated Damages (LD)**

- 13.1** Successful Bidder has to supply material within 10 weeks after issue of LOI, If the successful bidder fails to supply the material as mentioned in Clause 12.1.b(1), a liquidated damages @ Rs.5000/- per day for delay period shall be levied subject to a maximum of 10 % of the total contract value.
- 13.2** Time and quality are the essence of the contract, and the successful bidder has to complete the work of disconnection of Existing old MCC panel and Installation, commissioning, testing work and switch over to new MCC panels with successful trial run of HT MCC & LT MCC Panel. If the successful bidder fails to complete the actual work as mentioned in Clause 12.1.b(2&3), a liquidated damages @ Rs 2500/- per hour for delay period shall be levied subject to a maximum of 10 % of the total contract value.
- 13.3** Looking to this, if the delay in completion of the works happens which can be attributed to the successful bidder, the GMDC will be free to forfeit the EMD and /or SD, or both the EMD and SD.
- 13.4** Incompletion of any work or part of the work found of the contract affecting to the operation and safety of equipment and manpower shall be considered non-completion of the work and may lead to liquidated damage.
- 13.5** Under any circumstances GMDC shall not be liable to pay any compensation to the successful bidder.
- 13.6** If the delay of getting Electrical Inspector final approval occurs but the successful bidder has applied for the same in time, then this delay shall not be considered as delay attributable to the successful bidder. However, the Successful Bidder shall ensure to

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get the approval / clearance at the earliest. Payment shall be released only after submitting Electrical inspector approval/ clearance.

**13.7** GMDC reserves right to terminate the contract and get the balance work completed at the cost and risk of the Successful bidder if the work shall not be carried out up to the satisfaction of GMDC and not completed in time.

**13.8** For calculation of LD, date of acceptance of LOI shall be the reference date.

**13.9** The overall cap on total LD for delay in supply and / or works shall be 10% of total contract value.

#### **14. Insurance**

**14.1** Insurance –The Successful bidder shall take full responsibility to take all precautions to prevent loss or damage to the works or part thereof for any reasons whatsoever (except for reasons which are beyond control of the Successful bidder or act of God, e.g. flood, riots, war, earthquake, etc.) and shall at his own cost, repair and make good the loss/damage to the work so that on completion, the work shall be in good order and condition and in conformity with the requirements of the Contract and instructions of the Project Authority, if any.

**14.2** The Successful bidder shall, at all times during the pendency of the Contract, indemnify the GMDC against all claims, damages or compensation under the provisions of the Employee's Compensation Act and shall take insurance policy covering all risk, claims, damages or compensation payable under the Employee's Compensation Act or under any other law relating thereto.

**14.3** The Successful bidder shall ensure that the insurance policy/policies are kept alive till full expiry of the Contract by timely payment of premiums and shall not be cancelled without the approval of the GMDC. The cost of premiums shall be borne by the Successful bidder, and it shall be deemed to have been included in the tendered rate.

**14.4** In the event of the successful bidder's failure to effect or to keep in force the insurance referred to above or any other insurance which the successful bidder is

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required to effect under the terms of the Contract, the GMDC may effect and keep in force any such insurance and pay such premium/premiums as may be necessary for that purpose from time to time and recover the amount thus paid from any moneys due by the Successful bidder.

- 14.5** It is the responsibility of the successful bidder to hand over the entire system to GMDC on completion of the contract period in working condition. The final handing over / taking over will be done after joint inspection by GMDC and the successful bidder on the completion of contract period. The liability towards damage/ replacement shall be limited to 3% (Three percent) of the order value.

### **15. Goods & Service Tax**

**15.1** All bidders are required to submit their GST number and date in the bid. Bid received from unregistered bidder will not be considered and out rightly rejected.

**15.2** Bidders are requested to quote their rates without GST. GST will be paid/adjusted/reimbursed to the Successful bidder as per prevailing rates and rules to the extent directly related to the services rendered OR Goods supplied by the Successful bidder under the said contract subject to production of documentary proof and the Successful bidder will mention the GST amount separately in the invoice/bill along with SAC/HSN Code under GST.

### **16. Payment**

Payment terms for scope of supply and works shall be as under,

**16.1** GMDC shall release 75% payment of Total contract value against supply of material and remaining 25 % of payment shall be released after Successful Completion of work within 30 days after submission of invoice.

**16.2** The Successful bidder shall submit the invoice within 7 days to the office of the DGM (Civil, Maint. & Purchase) at HO for **supplying of materials** along with material challan copy, GMDC gate entry verification copy, Materials

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received and Inspection by GMDC sign copy, Materials test, and guarantee/warranty certificate of material supply.

**16.3** The successful bidder shall submit the invoice to the office of the DGM (Civil, Maint. & Purchase) at HO within 7 days of completion of the works for **actual work execution**. Payment shall be processed after submission of following documents:

- i. Details of Work carried out with work measurement sheet and due approval from GMDC EIC.
- ii. Drawings, Layout, and Test Certificates, Approval / Compliances Certificates from Electrical Inspector etc.

### **17. Mode Of Payment**

The mode of payment will be by RTGS.

The Running Account bills, submitted at the office of DGM (Civil, Maint. & Purchase) at HO will be processed there considering following deductions.

**17.1** Income tax as per provision of Income Tax Act, and other Taxes (and surcharges) shall be applicable in force from time to time.

**17.2** Cost of any other services provided / material supplied plus 15% administrative charge, if any, by the GMDC.

**17.3** Liquidated damages livable as per LD clause No.13 of the Tender Document

**17.4** Other deductions if any

**17.5** Payable amount arrived after considering above deduction, will be paid by office of the DGM (Civil, Maintenance, Purchase), -HO within 30 days of submission of the bill along with its details.

**17.6** The Successful Bidder shall have no rights to claim any amount without carrying out actual work / supply.

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## **18. Statutory Obligations**

- 18.1** That the Successful Bidder shall pay wages and benefits in accordance with the applicable laws and shall not pay less than as notified by the Government Authorities from time to time and shall maintain the employment records as required under applicable laws.
- 18.2** That the Successful Bidder shall get his own License under Contract Labor (Regulation and Abolition) Act. It shall be binding to get the same renewed from time to time and shall maintain all the records as per the act.
- 18.3** That the Successful Bidder shall be responsible to enroll his employees, deduct, add and deposit in the relevant accounts the contributions as required under the Employees State Insurance Act, 1952 and the Employees Provident Funds and Miscellaneous Provisions Act 1952 and any other enactment's covered under the various applicable labour laws as well as maintain all books of records for the staff and employees deputed by it for this contract such as required under any laws applicable. The Successful Bidder shall also furnish a copy of such statements as documentary proof to the GMDC.
- 18.4** That if the Successful Bidder is not covered under the Employees State Insurance Act, 1952 then it shall be the duty of the Successful Bidder to take appropriate insurance cover under the Workmen Compensation Act and take Group Personal Accident Policy for all the employees deputed at the site.
- 18.5** The Successful Bidder has to issue to the employee's Identity card with their photos and shall also maintain relevant register.
- 18.6** That the Successful Bidder shall give leave/holiday to its workforce as per the provisions of labour laws applicable.
- 18.7** Every person deployed by the Successful bidder must wear safety gadgets and such to be provided by the Successful bidder.

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- 18.8** Any statutory clearance, permission required for the work, its completion, commissioning shall be in bidder's scope.
- 18.9** That the Successful Bidder would obey with all applicable laws and maintain all such necessary records as necessitated under such enactments.
- 18.10** The Successful bidder shall comply with other statutory provisions of Law. The Successful bidder shall comply with all applicable laws, ordinances, approved standards, rules and regulations, and shall procure all necessary municipal and governmental permits, licenses and inspection and shall pay all fees and charges in connection with the items covered by the contract. The Successful bidder shall serve GMDC harmless as a result of any in factions thereof. Successful bidder will be solely liable for all non-compliances. The following are some of the major Government of India Acts and Regulations to be complied with by the Successful Bidder. The List is illustrative and not exhaustive.
- The Indian Factories Act of 1948 (63 to 1948) and Amendments and Rules (Amended up to date)
  - The Electricity Act, 2003 and rules made there under
  - The Minimum Wages Act, 1948
  - The Indian Boiler Regulation Act, 1950 and rules made there under
  - The Employees Compensation Act 1923 and Amendment Act 2010
  - The Payment of Wages Act 1936 and Amendment Act 2012
  - Payment of Bonus Act 1965 and amended up to date
  - Contract Labour Regulations & Abolition Act 1970
  - Interstate Migrant Workmen (Regulations) Act 1979

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- 18.11** When, any work is performed at night or where daylight is poor or obscured, the successful bidder shall have to provide artificial lights at its own cost, wherever required on high towers. The illumination at the working site should be sufficient to carry out mining operation properly and safely with due approval of DGM (Civil, Maint. & Purchase) at HO.
- 18.12** The Successful bidder shall also indemnify the GMDC against any claims, compensations, damages, loss, liquidated damages etc. for breach and / or non-fulfillment of the prevailing Rules and Regulations and other statutory provisions in force from time to time and applicable to the work during the currency of contract.
- 18.13** If any amount becomes payable by GMDC as a result of any claim or application in terms of the provisions or non-compliance of provision of the any Acts and the Rules and Regulations, By-laws or the Orders made there under, applicable from time to time, such amounts shall be recoverable from the Successful bidder for which GMDC will not be responsible for any compensation.

## **19. Performance Guarantee**

- 19.1** Successful bidder has to give performance guarantee for Supplied Material and Workmanship for 12 months from the date of completion of work and commissioning.
- 19.2** The 10% SD shall also be treated as performance Guarantee for the above specified period.
- 19.3** The performance guarantees for all the supplied materials shall be 18 months from date of receipt or 12 months from date of installation of the materials whichever is earlier.
- 19.4** The Performance BG / Security Deposit will be returned to your entity after 12 months of the completion of work and commissioning.

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- 19.5 If any problem surfaces, the successful bidder shall carry out of repairing/ replacing the material or carry out work free of cost. All types of expenses for repair, replacement, labour, insurance, statutory etc. shall be in successful bidder's scope.
- 19.6 The guarantee covers all types causes of non-satisfactory performance except natural calamities.

## **20. Bankruptcy**

If the Successful bidder commits an act of Bankruptcy or goes into liquidation except for construction purposes, or if its business is carried on by a receiver, such receiver, liquidator or any person in whom the contract may become vested shall forthwith give notice thereof in writing to GMDC and in reasonable time during which he shall take all reasonable steps to prevent stoppage of performance of the contract, have the option of carrying out the contract subject to his or their providing such guarantees as may be required by GMDC but not exceeding the value of the work for the time being remaining unexecuted.

In the event of stoppage of performance under the contract, the period of option under this clause shall be decided by GMDC considering the situation, provided that the above option is not exercised, GMDC may terminate the contract by serving notice in writing to the Successful bidder. The power and provision so reserved to GMDC on taking of the work out of the Successful bidder's hands shall apply as far as they may be when the contract is so terminated.

## **21. Notice**

Written notice shall be deemed to have been duly served if delivered to the individual or to the Successful bidder or to the Signing Authority of the GMDC from whom it is intended, or if delivered at or sent by mail or post, to the last business address known to him who gives the notice.

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## **22. Canvassing Not Permitted**

- 22.1** Bidder should not canvass their offer personally or otherwise by approaching the Chairman or the Member of GMDC. If any Bidder wants to make any representation regarding his offer, he should write to the General Manager (Project) if he desires, but personal and oral representations are not permitted.
- 22.2** In spite of the above clear instructions, any Bidder is found to canvass his offer or against his competitor's offer through personal approach to the competent authority or the officials of GMDC, their offer will be rejected without assigning any reason and the firm even is blacklisted.

## **23. Travelling, Living and Other Expenses:**

The Contract price shall include all salaries, and wages, all traveling time and expenses, boarding and lodging allowance and medical expenses of all personnel furnished by the Contractor and all payments which the Contractor may have to make in relation to the work, to the laborers and other personnel employed. Further the contract price shall include all taxes and liability in respect of Employee's Compensation Act, Employee State Insurance Act and Employees Provident Fund Act, etc.

## **24. Measurements:**

- 24.1** The complete execution of the work with supply of Materials and as per scope of work shall be counted for payment. If the work or supply is not completed as per scope of work or supply and any part work or supply is done, then the part work shall not be counted for payment.
- 24.2** The Successful bidder has to submit the material account statement along with the work measurement sheet. Any Invoice without material account statement shall not be processed, this may please be noted.
- 24.3** All the supplied credited materials shall be the property of GMDC.

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- 24.4 All the materials to be supplied as per the scope of works and or supply shall be credited to GMDC only.
- 24.5 The successful bidder shall ensure sufficient availability of the consumables to avoid any delay in completion of the work.

## **25. Non-Fulfillment of Terms and Condition of The Contract**

- 25.1 If the Successful bidder fails to carry out the work as per terms and conditions of the contract to the satisfaction of the GMDC, GMDC shall be entitled to forfeit the security deposit paid by the successful bidder. This however, shall not absolve the Successful bidder from his obligation to fulfill the contract. In such event, the GMDC shall have a right to complete and / or to get the work completed at the cost & risk of the Successful bidder and the Successful bidder shall be responsible to pay such cost incurred by the GMDC to complete the work and / or to get the work completed.
- 25.2 Likewise, if the Successful bidder does not fulfill the terms and conditions of the contract and does not carry out the work up to the entire satisfaction of GMDC, GMDC has the right to forthwith terminate the contract at its sole discretion, without assigning any reason, Under such events, the GMDC shall be entitled to forfeit the security deposit paid by the Successful bidder and the GMDC shall have a right to complete the work and / or to get the work completed at the risk and cost of the Successful bidder.
- 25.3 For any reasons, if it is required, the GMDC reserves rights to cancel, terminate, amend and / or alter the contract and / or bifurcate and / or reduce the contract work at any time without giving any notice or reason to the Successful bidder and without incurring any responsibility. For such cases, the Successful bidder shall have to take away his labour, tools, tackles, machinery, equipment etc. and shall leave the site at once or shall have to carry out the instructions of the GMDC.

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## **26. General Conditions**

- 26.1** All the persons of the Successful bidder engaged must wear Helmet and Shoes and other PPEs. As and when required other personal protective wears shall also be provided to them by the successful bidder.
- 26.2** The Successful bidder shall take adequate statutorily prescribed insurance cover for all men and machinery engaged by him/it for performance of the work at site. Any insurance claim brought against the GMDC by an individual or by customers or by any such other persons who suffered damage due to negligence of the Successful bidder or his employees, the same shall be settled by the successful bidder at his cost.
- 26.3** The Successful bidder has to ensure supervision of the work through duly qualified and competent persons and also has to make sure that a responsible Manager/ Engineer full time available on work site to whom GMDC can issue the instruction and who can fulfill such instructions. Successful bidder shall appoint qualified Manpower.
- 26.4** The Successful bidder shall not change the constitution of the firm/name during the currency of the contract without prior approval of GMDC. Upon such change in constitution and/or name, Supplementary agreement to that effect shall be executed and if the SD is submitted in form of BG/FD than fresh BG in the name and/or constitution shall be submitted failing which necessary action as deemed fit by GMDC shall be taken.
- 26.5** All the staff members of the successful bidder shall carry Photo Identity Card while on duty.
- 26.6** The successful bidder shall provide necessary arrangement for transportation of manpower.
- 26.7** All the equipment to be deployed by the successful bidder must be maintained in proper working order and be fitted with all the required safety devices enforced by statutory authority e.g. Audio-Visual Alarms, fire extinguisher etc.

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- 26.8** In case of any Central/State Government directives regarding electrical works execution, the same shall have to be strictly adhered to and binding upon the successful bidder for implementation, for which GMDC will not be responsible for any compensation.
- 26.9** The successful bidder shall abide by the provision of the Motor Vehicle Act for machinery. Any consequences arising out of non-compliance of said Provisions will be at the successful bidder's sole risk and cost, for which GMDC will not be responsible for any compensation.
- 26.10** To meet the exigencies arising out of natural calamities or disaster or during any emergency, GMDC reserves the right to take away any of the equipment's / machineries deployed at the site with a mutually consented rate. A separate agreement will be made to this effect.
- 26.11** MD-GMDC is authorized to take suitable decision and action in case of requirement to amend / alter the work order conditions / quantities of the works / extension of the work completion period / allotment of additional works / revision of the rates of the work etc. if necessary, in the interest of GMDC.

## **27. Termination Of Contract**

If at any time during the currency of this contract, if any breach occurs due to the reasons attributed to the Successful bidder, GMDC shall be at liberty to terminate this contract without assigning any reasons, whatsoever, for such termination and any losses and/or damages occurring due to such termination shall be borne by the Successful bidder. GMDC shall be entitled to forfeit Security deposits as Liquidated damages.

## **28. Governing Law**

This Tender and subsequent Contract shall be construed and interpreted in accordance with and governed by the laws of India.

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### **29. Jurisdiction**

The matter related to any dispute or difference arising out of this Tender and subsequent contract shall be subject to the exclusive jurisdiction of Court at Ahmedabad only.

### **30. Arbitration**

All questions, disputes, differences whatsoever which may at any time arises between the parties to this Tender and subsequent contract in connection with the Tender and subsequent contract or any matter arising out of or in relation thereto, shall be referred to Sole Arbitrator as per the provisions of Arbitration and Conciliation Act, 1996 and subsequent amendment thereto and the venue of arbitration proceedings shall be at Ahmedabad only. The Language of the Arbitration shall be in English only.

### **31. Completion Of Work**

**31.1** Upon the Successful bidder fulfilling the entirety of its obligations under the Contract to the satisfaction of GMDC and subject to terms and conditions of the Contract, it shall become eligible to apply for a Completion Certificate. The DGM (Civil, Maint. & Purchase)/ Maintenance Department in charge at HO shall formally issue the Completion Certificate, after verifying from the completion documents and satisfying himself that the Works under the Contract have been completed in accordance with all the provisions of this Contract. The Successful bidder, after obtaining the Completion Certificate shall become eligible to present the final bill for the Works executed by it under the Contract.

**31.2** Upon completion of Works under the Contract and before the application for the Completion Certificate, the Successful bidder shall clear the workplace of GMDC from all rubbish, dirt, structures, scrap, oily rags etc. Failure to clear the workplace may constrain GMDC to clear the said site at the risk and cost of the Successful bidder.

**31.3** The Successful bidder shall provide GMDC with any and all documents/records/proofs that may be demanded before issuance of Completion Certificate.

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### **32. Accident and Responsibilities of Bidder**

- 32.1** The entire responsibility on account of any accidents, damage or personal injury which may occurred to any of the Successful bidder's vehicles/ equipments or his/its employees or any outside party shall be exclusively that of the Successful bidder and no claim whatsoever shall be entertain by the GMDC on this account. The Successful bidder shall keep the GMDC indemnified from all the consequence.
- 32.2** In the event of any breakdown or accident during the course of any operation, the Successful bidder shall notify the facts to the GMDC Authority, or any other officer immediately present there of such incidence and shall simultaneously make adequate remedial arrangements on his/its own cost and risk and as per the instruction of the Corporate office Authority.
- 32.3** The Successful bidder shall pay all claims, damages and compensation with cost arising out of or resulting there from to the third party(s) and in case the GMDC would be required to face any proceedings all to pay any amount on the aforesaid account, it shall be deemed to have been discharge on behalf of the Successful bidder, the same amount shall be recovered half-an hour rest interval in between. The Successful bidder shall ensure that the attendance of all the supplied manpower shall be taken through biometric attendance machine.

### **33. Foreclosure**

In case of any necessity arising due to local working conditions or any unforeseen reason not in the control of the GMDC or any reason what so ever GMDC shall be at liberty to Fore close the contract without assigning any reasons or notice there for.

### **34. Force Majeure**

Force majeure is herein defined as any cause which is beyond the control of the Successful bidder or the GMDC as the case may be which they could not foresee or

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with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the contract, such as:

- 34.1** Natural phenomena such as flood, draughts Cyclone, earthquake and epidemics, declaration of war.
- 34.2** Acts of any government, including but not limited to war, declared or undeclared priorities, quantities, embargoes, providing either party shall within fifteen (15) days from the occurrence of such a cause notify the other in writing of such cases.
- 34.3** The Successful bidder will advise, in the event of his having resort to this clause by a registered letter duly certified by the statutory authorities, the beginning and end of the cause of delay, within fifteen days of the occurrence and cessation of such Force Majeure condition. In the event of delay lasting over two months, if arising out of Force Majeure, the contract may be terminated at the discretion of the GMDC.
- 34.4** For delay arising out of Force Majeure, the Successful bidder will not claim extension in completion date for a period exceeding the period of delay attributable to the causes of force Majeure and neither company nor the Successful bidder shall be liable to pay extra costs (like increase in rates, remobilization, advance, idle charges for labour and machinery etc.) provided it is mutually established that the Force Majeure conditions did actually exist.
- 34.5** If any of the Force Majeure conditions exists in the place of operation of the Successful bidder even at the time of submission of bid, he will categorically specify them in his bid and state whether they have been taken into consideration in their quotations.
- 34.6** The Successful bidder or the GMDC shall not be liable for delays in performing his obligations resulting from any force majeure cause as referred to and/ or defined above. The date of completion will, subject to hereinafter provided, be extended by a reasonable time.

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## Annexure "A"

### Instruction to Bidders for Online Tendering

1. All Bidders must submit their bid online through the website <https://gmdctender.nprocure.com>
2. Bidders who wish to participate in online tenders will have to procure / should have legally valid Digital Certificate (Class III) as per Information Technology Act-2000, using which they can sign their electronic bids. Bidders can procure the same from any of the license certifying Authority of India or can contact (n) code solutions- a division of GNFC Limited, who are licensed Certifying Authority by Government of India at address mentioned below at clause 5.
3. All bids should be digitally signed. For details regarding digital signature certificate and related training involved at the below mentioned address should be contacted:

Address:

**(n)Procure Cell**

**(n)Code solutions A division of GNFC**

**403, GNFC Info-Tower, Bodakdev, Ahmedabad- 380 054 (India)**

**Tel +91 79- 4000 7300 Fax: +91 79 26857321, Toll Free: 7359021663**

**E-mail : [nprocure@ncode.in](mailto:nprocure@ncode.in)**

4. Kindly take note that, valid Digital Signature Certificates is a must for all the interested Bidders. Online tendering process is not possible without a valid digital signature certificate.
5. Interested Bidders are also requested to complete their procedure for taking digital signature certificate in respect to filling of application form, supporting documents with necessary fees at least 3 days before last date of tender submission.
6. (n) code solutions reserve the rights to issue digital signature certificate after verification of application forms / supporting documents submitted by Bidder. (n) code solutions is fully authorized to issue digital signature certificate to Bidders.
7. Bidders who have no facility to participate in on-line tenders are requested to contact (n) code solutions for the same.
8. Free vendor training camp will be organized every Saturday between 4.00 to 5.00 P.M. at (n) code solutions- A Division of GNFC Ltd. at address mentioned above. Bidders are requested to take benefit of the same.
9. All the correspondence in respect to training, support or digital signature certificate should be addressed to (n) code solutions directly on the above-mentioned address. In case the Bidders face any difficulty, they may contact the officials of the GMDC or GNFC on the below mentioned details:

**a. GMDC:**

Contact Person: DGM (Civil, Maint. & Purchase)

**EPABX: 079-27913501, 27913200**

**E-mail: [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com), Website: [www.gmdcltd.com](http://www.gmdcltd.com)**

**b. GNFC:**

Contact Number: 079- 26857316/17/18

E-Mail: [nprocure@gnfc.net](mailto:nprocure@gnfc.net)

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## Annexure "B"

### Annexure I.

Finance Department, GR. No.: FD/MSM/e-file/4/2023/4020/D.M.O.

Date: 11/03/2024

(A) Guarantees issued by the following banks will be accepted as SD/EMD on permanent basis:

❖ All Nationalized Banks

(B) Guarantees issued by the following Banks will be accepted as SD/EMD for the period up to March 31, 2025. The validity cut-off date in the GR is with respect to the date of issue of Bank Guarantee irrespective of the date of termination of Bank Guarantee.

Sr No	Name of Banks	Sr No	Name of Banks
1	AXIS Bank	19	Kotak Mahindra Bank
2	AU Small Finance Bank	20	South Indian Bank
3	Bandhan Bank	21	Tamilnadu Mercantile Bank
4	City Union Bank	22	Utkarsh Small Finance Bank
5	CSB Bank	23	Ahmedabad Mercantile CO-op. Bank
6	DBS Bank India Limited	24	Nutan Nagrik Sahkari Bank Ltd.
7	DCB Bank	25	Rajkot Nagarik Sahakari Bank Ltd.
8	Equitas Small Finance Bank	26	Saraswat Co-Operative Bank Ltd
9	FEDERAL Bank	27	SVC Co-Operative Bank Ltd.
10	HDFC Bank	28	The Cosmos Co-op Bank Ltd.
11	HSBC Bank	29	The Gujarat State Co-operative Bank
12	ICICI Bank	30	The Mehsana Urban Co-Op. Bank
13	IDBI Bank	31	The Surat District Co-op Bank
14	IDFC First Bank	32	The Surat People's Co. Op. Bank Ltd
15	IndusInd Bank	33	The Kalupur Commercial Co-op. Bank
16	Jana Small Finance Bank	34	Baroda Gujarat Gramin Bank
17	Karnataka Bank	35	Saurashtra Gramin Bank
18	Karur Vysya Bank		

All the eligible banks are instructed to collect the original documents/papers of guarantee from the concerned tendering authority.

  
(Bhavya Verma)

Deputy Secretary (Budget)  
Finance Department

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Bank Details for RTGS

VALID FOR THREE MONTHS ONLY

D	M	Y	Y

OR ORDER

₹

FOR GUJARAT MINERAL DEVELOPMENT CORP LTD

*Gandhiji*

ICICI Bank  
Ahmedabad Branch  
Jmc House, Opp. Parimal Garden, Ahmedabad - 380005.  
RTGS/NEFT/IFSC Code : ICIC0000024

PRIVILEGE  
SAVINGS

CBS  
BUSINESS BANKING - NEW CURRENT ACCOUNT  
Payable at par at all branches of ICICI Bank Limited in India

A/c No. 002405019379

Pay Rupees

SI N 28/12/12

AUTHORISED SIGNATORIES  
Please sign above

⑈491099⑈ 380229002⑈ 019379⑈ 29

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## **Annexure C**

### **CODES & STANDARDS**

The electrical equipment and complete installation offered shall comply with the relevant Indian Standards / Codes of Practices, this specification, statutory regulations and sound engineering practices.

The complete system shall conform to the latest revisions of the following:

- The Indian Electricity Act & Rules 2003
- The Indian Electricity (Supply) Act, 1948
- Regulations laid down by local statutory authorities and CEA, CPWD, Electrical Inspectorate.
- The requirement of Gujarat State Electricity Board.
- Fire advisory Committee Insurance Act / Fire Insurance Regulations
- Indian Petroleum rules and any other regulations laid down by the Chief Controller of Explosives
- The factory act and any other regulations laid down by factory inspectorate.

Wherever Indian Standards do not exist, the relevant IEC, British or German (VDE) / IEEE / NEMA standards shall apply. Any other Standard which is considered equivalent to or superior than applicable Indian Standards may also be acceptable. The bidder, however, shall have to substantiate equivalence or superiority.

- Applicable standards govern the materials and workmanship in the manufacture of all equipment's/ items of Electrical Equipment's:

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<b>Codes</b>	<b>Description</b>
IS: 731, BS:137, IEC:383	Pin & Disc Insulator
IS: 2544, IS:5350, BS:3297, IEC:168	Porcelain post insulators for systems with nominal voltage greater than 1000V
IS 5621	Hollow insulators for use in electrical equipment
IS: 398 (Part-I&II) 1996	ACSR conductor
IS: 9920: Part 1 to 4: 2002	Specification for High Voltage Switches for rated voltage above 1 kV and less than 52 kV (First Revision)
IS 9921	Alternating current dis-connectors (isolators) and earthing switches for voltages above 1000 V
IS: 9385-1983	Governing spec. for GOAB switch
IS 3070	Lighting arresters for alternating current systems
IS 15086	Surge arresters
IS 8828	Electrical Accessories -Circuit Breakers for Over Current Protection for Household and Similar Installations
IEC 60529	Enclosure degree of protection IP-5X
IS 3231	Electrical relays for power system protection
IS-4047, IEC- 408	Air Brake Switches
IS-2208, IEC- 259-1	Fuses

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IS1248	Direct acting indicating analogue electrical measuring instruments and their accessories
IS 2419	Dimensions for panel mounted indicating and recording electrical instruments
IS 2705	Current transformers
IS 3156	Voltage transformers
IS 2026, IEC 60076	Power transformers
IS 11171	Specification for Dry-Type Power Transformers.
IS 335	New insulating oils
IS1180 (Part-1) 2014	Outdoor Type Oil Immersed Distribution Transformers Up to and including 2500kVA, 33kV Specification
IS 8468	On-load tap changers
IS 2099	Bushings for alternating voltages above 1000 Volts
IS 6600	Guide for loading of oil immersed transformers
S-4237	Switchgear General Requirements
IEC 60947	Low-voltage switchgear and control gear
IS-375	Panel Wiring
IS 3427	A.C. Metal Enclosed Switchgear and Control gear for Rated Voltages Above 1 kV and Up to and Including 52 kV
IS – 2516	Moulded Case Circuit Breakers
IS 3842	Application guide for electrical relays for ac systems
IS 13925	Shunt capacitors for ac power systems having a rated voltage above 1000 V
IEC 60831(1&2)	Shunt capacitor of the self- healing type for AC systems having rated voltage up-to and including 1000V
IEC 61921	Power capacitors -Low-voltage power factor correction banks

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IS 16636	Automatic Power Factor Correction (APFC Panels for voltage Rating up-to and including 1000V
IS-2959, IEC- 158-1	Contactors
IS-1822, IEC- 292	Starters
EN 50081-1,50082-2 & 60204-1	Microprocessor Soft Starter
IEC 61800 and/or IEEE 519-1992	Harmonics Control & Reactive Compensation Of Static Power Converters
IEC 721-3-3, class 3C1	Max. Corrosion Level of the Cooling Air
IEC 721-3-3 Class 3C2	Max. Corrosion Level of the Chemical Gases
UL 508C	Solid state thermal protection of AC Drive
IS 722	Specification for AC Electricity Meters
IS 12615: 2018	Energy efficient induction motors-three phase squirrel cage.
IS 15999 (part 1)	Rotating electrical machines: part 1 Rating and performance
IS 15999 (part 2)	Rotating electrical machines: part 2 Method of tests, standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)
IS 12065	Permissible limits of noise level for rotating electrical machines
IS 2253	Designation types of construction and mounting arrangement of rotating electrical machines
IS 8789	Values of performance characteristics for three phase induction

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	motors
IS 9283	Motors for submersible pump sets
IS 9334	Electric motor operated actuators.
IS 8130	Conductors for insulated electric cables and flexible cords
IEC: 228	Conductors of Insulated Cables.
IEC: 230	Impulse tests on cables and their accessories
IEC: 502	Extruded solid dielectric-insulated power cables for rated voltage from 1 kV up to 30 kV
IEC: 540	Test methods for insulations and sheaths of electric cables and chords
IEC: 229	Test on cable over sheaths which have special protective functions and are applied by extrusion.
IEC: 287	Calculations of continuous current rating of cables (100% load factor).
IEC 60751	Industrial platinum resistance thermometers and platinum temperature sensors
IEC 61537	Cable management -Cable tray systems and cable ladder systems
IS 1554 part I	PVC insulated (heavy duty) LT electric cables up to 1.1 KV
IS: 7098 Part I	XLPE Insulated LT Electric cables (heavy duty) up to 1.1 KV
IS: 7098 (Part II)	XLPE insulated PVC sheathed cable for voltage from 3.3 kV up to 33 kV.
IS : 5831-1984	PVC insulation & sheath of electrical cables.
IS 694	PVC Insulated cables for working voltage up to and including 1100 V.
IS 1255	Code of practice for installation and maintenance of power cables up to and including 33kV rating
IS: 3975	Mild steel wires, formed wires and tapes for armouring of cables

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IEC: 885(2) – 1987 (Part-II)	Electrical test methods for electric cables partial discharge test.
IS: 10810	Methods of test for cables.
IEC: 811	Common test methods for insulating and sheathing materials of electric cables.
IEC: 230	Impulse test on cables & other accessories.
IEC: 859	Cable termination for gas insulated switchgear.
IS: 3961	Recommended current ratings for cables.
IS 3043	Code of practice for earthing
IS 2629	Recommended Practice for Hot-Dip Galvanizing of Iron and Steel
IS 2633	Methods for testing uniformity of coating of zinc coated articles
IS 1897	Copper strip for electrical purposes – Specification
IS 2309	Code of practice for protection of buildings and allied structures against lightning
IS 732	Code of practice for electrical wiring installations
IS: 1646	Code of practice for fire safety of buildings (General) Electrical installation.
IS: 2509	Rigid non-metallic conduits for electrical wiring.
IS: 6946	Flexible (Pliable) non-metallic conduits for electrical installation.
IS 9537	Conduits for electrical installations
IS: 3854	Switches for domestic purpose.
IS: 3415	Fittings for rigid non-metallic conduits.
IS 3837	Accessories for rigid steel conduits for electrical wiring
IS 14927	Cable trunking and ducting systems for electrical installation
IS: 4648	Guide for electrical layout in residential building Indian electricity act and rules.
IS: 1293	3 pin plugs and sockets.

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IS 4795	Holders for Indicator Lamps for Electronic and Telecommunication Equipment
IS 3646	Code of practice for interior illumination
IS 1913	1969 General and Safety requirements for Electric lighting fittings
IS:1239, IS:2713	GI Lighting Poles
IS 1944	Code of practice for lighting of public thoroughfare
IS 374	Electric ceiling type fans and regulators
IS 1293	Plugs and socket-outlets of rated voltage up to and including 250 volts and rated current up to 16 amperes – Specification
IS 6665	Code of practice for industrial lighting
IS 8224	Electric lighting fittings for division 2 areas
IS 9583	Emergency lighting units
IS 9974	High pressure sodium vapour lamps
IEC 62305	Protection against lightning -Part 4: Electrical and electronic systems within structures
IS 1271	Thermal evaluation and classification of electrical insulation
IS 1544	Cotton calico
IS 1868	Anodic Coatings on Aluminum and its Alloys – Specification
IS 2190	Selection, Installation and Maintenance of First-aid Fire Extinguishers —code of practice
IS 2546	Specification for galvanized mild steel fire bucket
IS 5572	Classification of hazardous areas (other than mines) having flammable gases and vapours for electrical installation
IS 9677	Guide for limits of temperature-rise of the windings of electrical equipment when tested by different methods
IS 9678	Methods of measuring temperature rise of electrical equipment

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IS 10118	Code of practice for selection, installation and maintenance of switchgear and control gear
IS 15652	Insulating mats for electrical purposes – Specification.
IS 5424	Rubber mat
IS 4770	Rubber Gloves -Electrical Purposes – Specification
IS 2551	Danger notice plates
ISO 3046	Diesel Engine
BS: 2613 / IS : 4722	Alternator
IS- 16101	General lighting LED and LED modules
IS-16102 (Part-1)	Self-ballasted LED lamps for general lighting service-Safety Requirement
IS-16102 (Part-2)	Self-ballasted LED lamps for general lighting service-Performance Requirement
16103(Part 1)	LED modules for General Lighting-Safety Requirement
16103 (Part 2)	LED <b>modules</b> for General Lighting-Performance Requirement
16107 (Part-10)	Luminaries Performance-General Requirement
16108	Photo biological safety of lamps and lamp systems

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### Annexure D

#### APPROVED VENDER LIST FOR ELECTRICAL EQUIPMENT / COMPONENT:

ITEM DESCRIPTION	APPROVED MAKE
COMPACT SUBSTATIONS	ABB / CGL / SCHNEIDER / SIEMENS
DISTRIBUTION TRANSFORMERS	ABB / AREVA / BBL / BHEL / CGL / EMCO / GEC / KEC / RAYCHEM RPG LTD. / SCHNEIDER / TRANSFORMERS & RECTIFIERS INDIA LIMITED / VOLTAMP / POWERLITE
315KVA & BELOW 315KVA DISTRIBUTION TRANSFORMERS	SKP TRANSFORMERS / POWERLITE ELECTRICAL / ATLANTA ELECTRICAL / GUJARAT TRANSFORMERS / EMCO
TRANSFORMER LIGHTING - DRY TYPE (CAST RESIN)	ABB / AUTOMATIC ELECTRIC LTD. / CGL / INDCOIL / KOTSONS / VOLTAMP
SWITCHBOARD MV - 11 / 33KV - INDOOR / OUTDOOR TYPE (VCB/SF6)	ABB / AREVA / BHEL / CGL / GEC / JYOTI / L & T / SCHNEIDER / SIEMENS/HIGH VOLT (ABB)
PROTECTIVE RELAYS (NUMERICAL TYPE)	ABB / ALSTOM / CGL / GE / L & T / SCHNEIDER / SIEMENS
PROTECTIVE / AUXILLARY RELAYS (ELECTROMECHANICAL TYPE)	ABB / ALSTOM / CSPC / EASUN REYROLLE / GE / GEC L & T / SCHNEIDER / SIEMENS
ELECTRONIC CIRCUIT RELAY	ALLEN BRADLEY / OEN / OMRON / PLA
CONTROL AND RELAY PANEL	ABB / ALSTOM / EASUN REYROLLE / L & T / SCHNEIDER / SIEMENS / PHOENIX CONTACT INDIA PVT. LTD.

**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED**

(A Government of Gujarat Enterprise)

CIN: L14100GJ1963SGC001206

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PHONE:(079)27913200/3501 Web:[www.gmdcltd.com](http://www.gmdcltd.com); E-Mail : [sm.civil.co@gmdcltd.com](mailto:sm.civil.co@gmdcltd.com)



INSTRUMENT TRANSFORMERS (CT / PT)	AEP / ASHMOR / AUTOMATIC ELECTRIC / CGL / CONTROL & SWGR / ECS / GILBERT AND MAXWELL / INDCOIL / JYOTI / KAPPA / PRAGATI / PRECISE / SILKAANS
L.V. SWITCHBOARD - DRAWOUT / FIXED TYPE (PCC / PMCC / MCC / MLDB / MPDB / MOVDB / APFC)	ABB / ALPHA NIPPON / C & S / CGL / ELEMICA / ELEMACH / HORIZON / INDUSTRIAL CONTROLS / L&T / PATEL BROTHERS / POSITRONICS / POWER & INSTRUMENTATION (O) LTD. / SCHNEIDER / SIEMENS / SUN AUTOMAT / SWATI SWITCH-GEAR/HIGH VOLT / G SONS POWER
AIR CIRCUIT BREAKERS	ABB / AREVA / L&T / SCHNEIDER / SIEMENS/LEGRAND/C&S/INDOASIAN
MCCB'S	ABB / C & S / GEC / L&T / SCHNEIDER / SIEMENS/LEGRAND/C&S/INDOASIAN
SWITCH DISCONNECTOR FUSE UNIT (SDF) AND SWITCH DISCONNECTOR ISOLATOR	ABB / C & S / GEC / L&T / SCHNEIDER / SIEMENS / INDOASIAN
CHANGE-OVER SWITCH	BCH / C&S / GE POWER / HAVELLS / HPL / KRAUS & NAIMER / L&T / SCHNEIDER / SIEMENS
SOFT STARTER (MICROPROCESSOR BASED)	ABB / CG POWER (EMOTRON) / DANFOSS / L&T / ROCKWELL / SCHNEIDER / SIEMENS
VVVF DRIVES (VFD)	ABB / CG POWER (EMOTRON) / DANFOSS / L&T / ROCKWELL / SCHNEIDER / SIEMENS
MV CAPACITORS	ABB / EPCOS / SHREEM / UNIVERSAL

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LV CAPACITORS / POWER CAPACITOR	ABB / EPCOS / HAVELLS / ASIAN / BHEL / CGL / GEC / KHATAU JUNKER / MADHAV / MALDE / NEPTUNE / SCHNEIDER / UNIVERSAL / SHREEM / PRABODHAN/POWER MATRIX / SIEMENS/VISHAY
DETUNED SERIES REACTORS WITH TEMPERATURE MICRO SWITCH (HARMONIC FILTER REACTOR)	EPCOS / WHEPL / YESHA/NEPTUNE/ VISHAY
APFC PANEL	ABB / ASIAN / CGL / DATAR / EPCOS / L&T / NEPTUNE / SCHNEIDER / ALL APPROVED VENDORS FOR LT PANEL/EASUN/ ALSTOM / CSPC / SIEMENS
APFC RELAY / CONTROLLER	ABB / CUMMINS / DATAR / ENERCON / EPCOS / L & T / SCHNEIDER / SIEMENS / SYNTEL / TRINITY / ASIAN
AC / DC POWER & AUXILLARY CONTACTOR	ABB / BCH / C & S / GE / L&T / SCHNEIDER / SIEMENS/INDOASIAN
BI-METAL / ELECTRONIC / MICROPROCESSOR BASED OVERLOAD RELAY	ABB / C&S / GE / L&T / SCHNEIDER / SIEMENS/CSPC/ALSTOM / CG/INDOASIAN
THERMISTER RELAY	ALSTOM / INSTA CONTROLS / MINILEC
SINGLE PHASING PREVENTER	ABB / C&S / GE / L&T / MINILEC / SCHNEIDER / SIEMENS

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TIME SWITCH	GIC / LEGRAND / SCHNEIDER / SIEMENS / THEBEN
TIMERS / TIME DELAY RELAY	BCH / EAPL / L&T / LEGRAND / MINILEC / OMRON / PLA / SCHNEIDER / SIEMENS / TEKNIC / THEBEN/ELICO/INDOASIAN
MOTORS	ABB / BBL / BHEL / CG POWER / JYOTI / KEC / MARATHON / SIEMENS / L & T
BATTERY CHARGER & DCDB	AMARA RAJA / AMCO POWER / AUTOMATIC ELECTRIC / CALDYNE AUTOMATICS / CHHABI ELECTRICALS / EXIDE / HBL POWER SYSTEMS / HIREL- HITACHI / MASS-TECH CONTROLS / UNIVERSAL INSTRUMENTS
LIGHT FIXTURES	BAJAJ / C & S / CGL / GE / HAVELLS / PHILIPS / SURYA / WIPRO
CABLES H.V. - XLPE INSULATED	ASIAN CABLE / CCI / FORT GLOSTER / HAVELLS / KEI / NICCO / POLYCAB / PRIMECAB / RPG CABLES / TORRENT CABLES / UNIVERSAL
LT POWER & CONTROL CABLES / EARTHING CABLES	ASIAN CABLE / AVOCAB / CCI / FINOLEX / FORT GLOSTER / HAVELLS / KEI / LAPP / NICCO / POLYCAB / PRIME CAB / RPG CABLES / RR KABEL / TORRENT / UNIVERSAL CABLES
WIRES - FLEXIBLES (ALL TYPES)	AVOCAB / FINOLEX / KEI / L&T / LAPP / POLYCAB / RR KABEL / UNIVERSAL/ANCHOR/HAVELLS/ATLAS

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LIGHTING / SMALL POWER DISTRIBUTION BOARDS / ENCLOSURES	ABB / BCH / C&S / ELDON / ENCLOTEK / HENSEL / INDO ASIAN / L&T / LEGRAND / RITTAL / SCHNEIDER / SIEMENS / HAVELLS / STANDARD ELECTRIC / ALL LV PANEL VENDORS
MCB, RCCB, RCBO / MCB ISOLATORS	ABB / C&S / INDO ASIAN / L&T / LEGRAND / MOELLER / SCHNEIDER / SIEMENS/GEC/ HAVELLS/S&S/INDOASIAN
MPCB	ABB / C&S / L&T / SCHNEIDER / SIEMENS/ AREVA/INDOASIAN
ALARM ANNUNCIATORS (SOLID STATE TYPE WITH LED ILLUMINATION) / FACIA ANNUNCIATOR	ALSTOM / DIGICONT / ICA / IICP / MINILEC / PROCON INST. (P) LTD / PROTON ELECTRONICS/APLAB
DECORATIVE / MODULAR SWITCH & SOCKET	ABB / ANCHOR / CLIPSAL / CRABTREE / L&T / LEGRAND / MK - HONEYWELL / SIEMENS/SCHNEIDER/INDOASIAN
CEILING / WALL MOUNTING / EXHAUST FANS	ALMONARD / BAJAJ / CGL / HAVELLS / KHAITAN / ORIENT / USHA
CABLE TERMINATION / JOINTING KITS	3M / ABB KABELDON / M SEAL / RAYCHEM/XICOM/CCI
CONTROL / SELECTOR SWITCH	ABB / ALSTOM / BCH / GE POWER CONTROLS / HAVELLS / KAYCEE / L&T / SCHNEIDER / SIEMENS/RECOM/ SULZER/ EE/JYOTI

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INDICATING LAMPS	BCH / L & T / SCHNEIDER / SIEMENS / TEKNIC CONTROLS / VAISHNO/IEC/EE
TERMINAL BLOCK / CONNECTORS	CONNECTWELL / ELMEX / PHEONIX / TELEMECHANIQUE / WAGO
CONTROL TRANSFORMER	AE / ASHMORE / G&M / INDCOIL / NEC / PRAGATI / PRECISE / SILKAANS
SEMICONDUCTOR FUSE	BUSSMANN / FERRAZ / GE / SIEMENS
HRC FUSE (POWER & CONTROL)	ABB / C&S / GE / L & T / SCHNEIDER / SIEMENS / TECHNOELECTRIC/INDOASIAN
PUSHBUTTONS	BCH / L & T / RASS / SCHNEIDER / SIEMENS / TEKNIC / VAISHNO
PUSH BUTTON STATIONS / JUNCTION BOX (CAST ALUMINIUM)	BALIGA / BCH / CEAG / EXPROTECTA / FCG / FLEXPOR / HANSU / HENSEL / PUSTRON / SCHNEIDER / SIEMENS / SUDHIR/EXCEL
NON METALLIC ENCLOSURES (INCLUDING INDUSTRIAL RECEPTACLES)	BCH / HENSEL / LEGRAND / PUSTRON / RITTAL / SCHNEIDER / SIEMENS / SINTEX
DIGITAL METER (EXCEPT KWH / LOAD MANAGER / MULTI FUNCTION METERS)	AE / ALSTOM / KRYKARD / L & T / MASIBUS / NIPPEN / RISHABH / SCHNEIDER / SECURE / SIEMENS/IMP/MECO/ASIAN / CONZERV
ELECTROMECHANICAL METERS - AMMETER & VOLTMETER	AE / IMP / MECO / RISHABH
KWH / LOAD MANAGER / MULTI FUNCTION METER	ABB / KRYKARD / L&T / SCHNEIDER / RISHABH / SECURE / ASIAN / IMP/ MECO / NIPPEN / CONZERV / ENERCON

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CABLE LUGS	3D / COMET / CONNECTWELL / DOWELLS / JAINSON/3M
CABLE GLANDS (SINGLE / DOUBLE COMPRESSION, NI-PLATTED BRASS)	BALIGA / BRACO / COMET / ELECTROMECH / EX-PROTECTA / FCG / HMI / JAINSON / SIEMENS / SUDHIR
CABLE GLANDS - POLYAMIDE	FIBOX / GEWISS / HENSEL / LAPP
LIGHTNING ARRESTORS	CGL / ELPRO / JAYSHREE / OBLUM / WS
SURGE SUPPRESSORS	ABB / EMERSON / ERICO / MTL / OBLUM / PEPPERL+FUCHS / PHOENIX / SCHNEIDER / SIEMENS / WEID MULLER
UNINTERRUPTED POWER SUPPLY (UPS)	ABB / EMERSON / FUJI / HITACHI / INVENSYS / SCHNEIDER / SOCOMEC
GI CABLE TRAYS	GLOBE / INDIANA / JACINTH / LEGRAND / M.M. ENGINEERING / SHARDA / SILVERLINE POWER / VATCO/SUPER ELECTRO
UPVC CONDUIT & ACCESSORIES	AKG / CLIPSAL / L&T / POLYCAB / PRECISION / SALZER
MS / GI CONDUIT & PIPES	BEC INDUSTRIES / JINDAL / JK TUBE / SAIL / TATA STEEL / ZENITH
SMF / VRLA / NI-CD / LEAD ACID (PLANTE / TUBULAR) BATTERY	AMARA RAJA BATTERIES LTD. / AMCO / EXIDE / HBL POWER SYSTEMS LTD./AUTOMATIC ELECTRIC
MS / GI LIGHTING POLES &	AMBICA ENGINEERING / BAJAJ / BOMBAY TUBES AND POLES / GAYATRI

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BRACKETRS	ELECTRICALS / INDIA ELECTRIC POLES / RIDDHI POLES / SHAKTI POLES / SURYA
HIGH MAST LIGHTING SYSTEM	BAJAJ / CGL / PHILIPS / SURYA
BUSDUCT	ABB / C&S / L&T / SCHNEIDER / SIEMENS / STARDRIVE / ALL LT PANEL VENDORS
DIESEL ENGINES	ASHOK LEYLAND / CATERPILLAR / CUMMINS / KOEL / MAHINDRA POWEROL / MITSUBISHI / PERKINS / VOLVO / WARTSILA
ALTERNATORS FOR DG SETS	BHEL / CGL / JYOTI / KEC / KOEL / LEROY SOMER / NGEF / STAMFORD
HANDHELD DIGITAL MULTIMETER / CLIP-ON METER / MEGGER	FLUKE / IMP / MECO / MOTWANE / RISHABH
CAPACITOR DUTY CONTACTOR	EPCOS/ABB/SIEMENS/L&T/SCHNEIDER/C&S / CG/INDOASIAN
BATTERY BACKED POWER PACK	ALAN/G'LEC/BHARANI/GOGATE
ALUMINIUM BUSBAR MATERIAL	BANCO/HINDALCO/JINDAL
PANEL CRCA/MS/GI PLATES & SHEET	ESSAR/TATA/JINDAL/SAIL
CHEMICAL TYPE EARTHING INCLUDING COPPER BONDED ELECTRODE & BACK FILL COMPOUND	ASHLOK / CURSP / ECO TECHNOLOGY & PROJECTS/ENNOV INFRA / ERICO/ISG GLOBAL / PRAGATI ELECTROCOM/SAARA EARTHING/ EQUI. REPUTED MAKE SUBJECT TO CLIENT APPROVAL

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**Note:**

**Any LT Panel Manufacturer meeting / possessing the following requirements as a minimum shall also be qualified as an approved vendor for supply of LT Panels:**

1. Should have obtained approval from CPRI / ERDA and obtained type test certificate for LT Panel with rated voltage of 415V (3-Ph. + N), 50Hz rated frequency and min. 3200A rated current and having short circuit withstanding strength of min. 65kA for one sec.
2. Should have obtained approval from CPRI / ERDA and obtained type test certificate for Degree of Protection Class IP-55 or above for LT Panel with rated voltage of 415V (3-Ph. + N), 50Hz rated frequency and certificates must have validation for current year.

The company should be in existence for mini. 5years and shall have GST Registration Certificate.

4. Shall be ISO 9001:2015 or latest amended up to date certified.
5. Necessary supporting documents / copy of certificates duly notarized shall be submitted along with the technical bid along with self-attested undertaking for manufacturing facilities on panel manufacturer's letter head (by bidder submitting bid as a panel manufacturer or by the bidder who is proposing to supply panel or carry out panel related work from such manufacturer including submission of back-up guarantee as per tender).

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6. Client reserves to inspect the works facility of such panel vendor at any stage of bid / execution to assess the facility and verifying the requirements as specified above (The cost of such visit by Client officials of up to two persons including travel, lodging, boarding, local conveyance, etc. shall be borne by bidder).
  
7. Further bidder and vendor (LT Panel manufacturer) to note that at any stage if it is observed that the LT panel vendor details submitted are incorrect or fake or forged, Client reserves right to initiate action against such bidder / vendor including keeping their registration with Client in abeyance for up to 3 years or as decided by the concerned authority of Client.

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**FORM - PB**

**STATUS OF THE BIDDER**

<b>Particulars</b>	<b>Details</b>
Name of the Bidder:	
Address:	
Registered office:	
For correspondence:	
Telephone No.	
Fax No.	
E-mail Address	
Attested copies of Deeds, Articles of association to be enclosed	
Name & contact number of person holding power of attorney (Attested copy of power of attorney to be enclosed)	
Names of Partners with their Present and permanent address	
Name of Bankers with full address and Telephone No& Bank Account Details (Cancelled Cheque to be enclosed)	
PAN of Bidder	
GST Registration No. of Bidder	
PF Registration No.	
Whether enlisted in other dept., if yes, then furnish the details pertaining to class and the amount qualified to tender	
Was the applicant or its partners or Directors blacklisted in past by any Govt. or any other body.	
Details pertaining to the work incomplete if any	
Details of the litigation, court cases and arbitration either completed or under progress during last 10 years by the GMDC entity or any partner/proprietor of present entity GMDC was associated in any capacity.	

Signature and Stamp of the Bidder

**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED**

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PHONE: (91)792412222 / (91)792412222 FAX: (91)792412222 E-MAIL: gm@gmddc.com



## FORM PC

### 1. Turnover and Net Worth

On the basis of the **audited books of accounts** produced before us by M/s. \_\_\_\_\_, we certify that as per the books of account Net worth and Turn Over of the firm M/s \_\_\_\_\_ are as under:

1.1 Net Worth= Rs. \_\_\_\_\_ for the Year ended on 31.03.2022.  
Rs. \_\_\_\_\_ for the Year ended on 31.03.2023.  
Rs. \_\_\_\_\_ for the Year ended on 31.03.2024.

Average Net Worth Rs. \_\_\_\_\_

1.2 Turn Over = Rs. \_\_\_\_\_ for the Year ended on 31.03.2022.  
Rs. \_\_\_\_\_ for the Year ended on 31.03.2023.  
Rs. \_\_\_\_\_ for the Year ended on 31.03.2024.

Average Turnover of Rs. \_\_\_\_\_

### 2. Details of Work Carried Out During the Last Seven Years by the Bidder (i.e. period from 01.02.2018 to 31.01.2025):

Sr. No.	Description of work with Workplace	Name of client with postal address	Work Order number and date	Contract Period		Actual Quantity worked	Amount without GST of work order	Work experience certificate attached
				From (Date)	To (Date)			
								Yes/No
								Yes/No
								Yes/No
								Yes/No

Signature and Stamp of the Bidder

Signature and Stamp of the CA

**TO BE CERTIFIED BY CHARTERED ACCOUNTANT SHOWING**

**MEMBERSHIP NO/ FIRM REGISTRATION NO**

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**FORM PE**

**(Format for Affidavit)**

**A F F I D A V I T**

**Undertaking Regarding Geniuses of Documents**

**(On Non-Judicial Stamp Paper of Rs 300/-)**

I/We, \_\_\_\_\_, Partner/Director/Legal Attorney/Accredited  
Representative of M/s. \_\_\_\_\_ solemnly declare that:

1. I/We are submitting Tender for the work \_\_\_\_\_  
\_\_\_\_\_ against Tender No. \_\_\_\_\_
2. None of the Partners/Directors of our firm/GMDC is relative of employee of GMDC.
3. All information furnished by us in respect of fulfillment of eligibility criteria and qualification information of this Tender is complete, correct and true.
4. All documents/credentials submitted along with this Tender are genuine, authentic, true and valid.
5. If it is found at any point of time that our documents are not genuine then in that case our tender will be rejected, earnest money deposited by us will be forfeited and we will be debarred from participating in further/future GMDC tenders and/or any action as deemed fit by GMDC may be taken against us, including termination of the contract, forfeiture of all dues including Earnest Money / Security deposit and banning/delisting of our entity and all related persons etc.

**SIGNATURE OF THE BIDDER**

**WITH SEAL**

Dated .....

**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED**

**(A Government of Gujarat Enterprise)**

**CIN: L14100GJ1963SGC001206**

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**PHONE: (079) 27212222 / (079) 27212223 / (079) 27212224 / (079) 27212225 / (079) 27212226 / (079) 27212227 / (079) 27212228 / (079) 27212229 / (079) 27212230**



**FORM PF**

**Undertaking Of Indemnity**  
(On Letter head of the Bidder)

To,

DGM (Civil, Maint. & Purchase)  
Gujarat Mineral Development Corporation Ltd.  
Khanij Bhavan  
132' Ring Road, University Ground,  
Vastrapur,  
Ahmedabad.

Dear Sir,

We M/s. ----- hereby undertake that, we shall at all times, indemnify and keep indemnified that GMDC Limited from any and all liability for damages resulting from or arising out of or in any way connected with the operations covered by the Tender No. \_\_\_\_\_. We shall be responsible for all risk arising in connection with or on account of the operations covered by the contract covered by the above tender and shall make good all losses and damages arising there from. In case, the GMDC Limited shall incur any cost or expense or suffer any loss on account of any claim demand or course of action brought against us and arising out of the operations covered by the Bidder/tender, the GMDC Limited shall have the power (without being bound to do so) to define, contest or compromise any such claim demand or cause of action. Any amount that may become payable by GMDC Limited and any cost expense etc. that may be incurred by the GMDC Limited in this behalf, shall also be recoverable from us, without prejudice to your other rights.

Yours faithfully,

For -----

(Signature & Stamp of the Bidder)

**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED**

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Khanij Bhavan, Nr. University Ground, 132ft. Ring Road, Vastrapur, AHMEDABAD-380052, Gujarat, India



## **FORM PG**

### **Declaration**

(On letter head of the Bidder)

#### **Site Visit**

We \_\_\_\_\_ hereby certify that we have fully understood the site condition in respect of Tender No. \_\_\_\_\_ for all the works mentioned above at \_\_\_\_\_. We have obtained all relevant details, information, data, existing working conditions, existing industrial environment etc. We have also studied the working conditions as proposed in the tender and availability of power supply, water supply, manpower, machineries, transportation facility etc.

We hereby agree and undertake not to raise any dispute and/or objection at any stage on any ground whatsoever, during the currency of the contract if awarded to us.

#### **SIGNATURE OF THE BIDDER WITH SEAL**

Dated .....





**Please note the following details for Compulsory e-confirmation for Bank Guarantee through ICICI Bank through SFMS under our:**

Gujarat Mineral Development Corporation Limited (GMDC)  
132 Ft Ring Road, Near University Ground Vastrapur, Ahmedabad.  
Bank Name: ICICI Bank Ltd  
IFS Code: ICIC0000024  
UIC GMDC530265584 for Field 7037 MT760

**FORMAT OF BANK GUARANTEE FOR SECURITY DEPOSITE (SD)**

(On Non-judicial Stamp paper to be submitted along with submission of bids)

..... (Name of the Bank)

Address.....

Guarantee No.....

A/C Messrs..... (Name of Bidder)

Date of Expiry.....

Limit to liability (currency & amount) .....

Invitation for Tender No..... Dated..... (Bidding document)

For..... (Name of Facilities)

**Subject:** Security Deposit Bank Guarantee.

Date.....20

To,  
General Manger (\_\_\_\_),  
Gujarat Mineral Development Corporation Ltd.  
132 Ft Ring Road,  
Near University Ground  
Vastrapur,  
Ahmedabad.

Dear Sir,

In consideration of Gujarat Mineral Development Corporation (hereinafter called "GMDC") which expression shall unless repugnant to the subject of context include his successors and assigns having agreed to exempt M/s..... (herein after called "Bidder") from demand under the terms and conditions of "Technical Bid Document" ( hereinafter called the said "Bidding Document") issued by the GMDC vide Tender No. \_\_\_\_\_ for the work \_\_\_\_\_

(Name of the facilities ) from Security Deposit (SD) of Bid for the due fulfillment by the Bidder of the terms and conditions contained in the said Bidding Document on production of Bank Guarantee for INR

( \_\_\_\_\_ only ) ( figure in words).

**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED**

(A Government of Gujarat Enterprise)

CIN: L14100GJ1963SGC001206

Khanij Bhavan, Nr. University Ground, 132ft. Ring Road, Vastrapur, AHMEDABAD-380052, Gujarat, India

PHONE: (079)27212222 / (079)27212223 FAX: (079)27212224 E-MAIL: gm@gmco.gujarat.gov.in



- 1** We the \_\_\_\_\_ ( Name of Bank ) hereinafter referred to as “Bank” having our registered office at \_\_\_\_\_ ( address of Bank ) do hereby undertake and agree to indemnify and keep indemnified GMDC to extent of INR \_\_\_\_\_ ( \_\_\_\_\_ only ) ( figures in words ) against any losses, damage cost, charges and expenses caused to or suffered by or that may be caused or suffered by GMDC by reason of any breach or breaches by the Bidder of any of the terms and conditions contained in the said Bidding Document and unconditionally pay the amount claimed by GMDC on demand and without demur to the extent aforesaid.
- 2** We \_\_\_\_\_ (Name of Bank) do hereby undertake to pay the amounts due and payable under the guarantee without any demur merely on a demand by you stating that the amount claimed is due by way of loss or damage caused to or would be caused or suffered by you by reason of any breach by the said Bidder of any of the terms or conditions contained in the said Bidding Document by reason of the Bidder’s failure to fulfill the conditions of said Bidding Document. Any such demand on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding INR \_\_\_\_\_.
- 3** We \_\_\_\_\_ ( Name of Bank ) further agree that GMDC shall be the sole judge of and as to whether the Bidder has committed any breach or breaches of terms and conditions of the said Bidding Document and the extent of loss, damages, costs, charges and expenses caused to or suffered by or that may caused to or suffered by GMDC on account hereof to the extent of the Bid Security required to be deposited by the Bidder in respect of the said document and the decision of GMDC that the Bidder has committed such breach or breaches and as to the amount or amounts of loss, damages, costs, charges, and expenses caused to or suffered by or that may be caused to or suffered by GMDC shall be final and binding on us.
- 4** We \_\_\_\_\_ (Name of Bank) further agree that guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance on the said Bidding Document and that it shall continue to be enforceable till you certify that terms and conditions of the said Bidding Document have been fully and properly carried out by the said Bidder and accordingly discharge the guarantee. Unless a demand or claim under this guaranteed is made on us in writing on or before the (date) \_\_\_\_\_ we shall be discharged from all liability under this guarantee.
- 5** We \_\_\_\_\_ ( Name of Bank ) further agree with you that you have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Bidding Document or to extend time of performance by the said Bidder from time to time or to postpone for any time or from time to time any of the powers exercisable by you against the said Bidder and to forbear or enforce any of the terms and conditions relating to the said Bidding Document and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said Bidder or for any forbearance act or omission on your part or any indulgence by you to the said Bidder or any such matter or thing whatsoever under the law relating to sureties would but for this provision have effect of so relieving us.
- 6** It shall not be necessary for GMDC to proceed against the Bidder before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank, notwithstanding any security which GMDC may have obtained from the Bidder at this time when proceeding are taken against Bank hereunder be outstanding or unrealized.

**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED**

**(A Government of Gujarat Enterprise)**

**CIN: L14100GJ1963SGC001206**

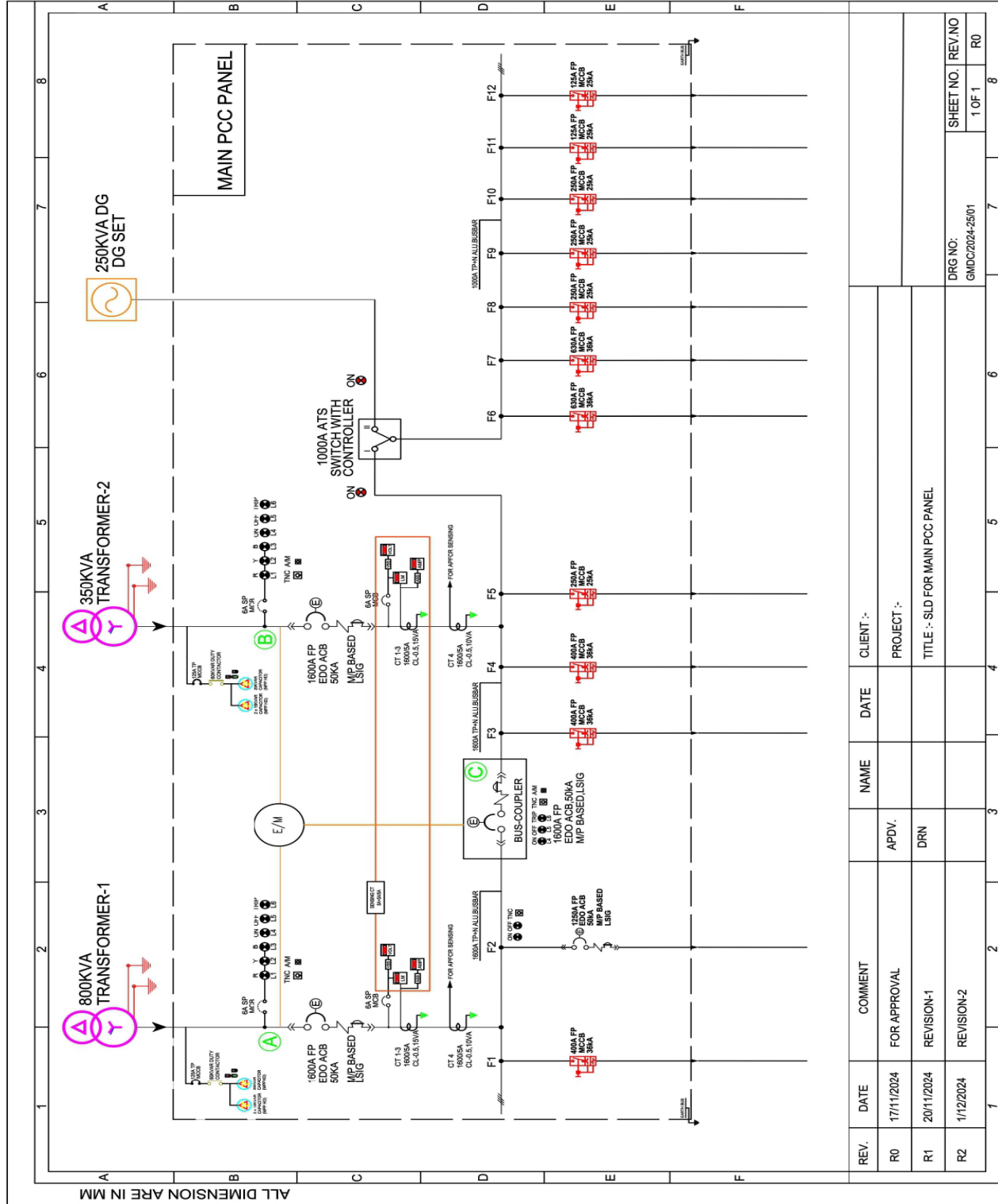
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**PHONE: (079)27212222 / (079)27212223 FAX: (079)27212224 E-MAIL: gm@gmco.com**





Reference Drawing:



REV.	DATE	COMMENT	NAME	DATE	CLIENT :-
R0	17/11/2024	FOR APPROVAL	APDV.		PROJECT :-
R1	20/11/2024	REVISION-1	DRN		TITLE :- SLD FOR MAIN PCC PANEL
R2	11/12/2024	REVISION-2			

DRG NO:	GMD/2024-25/01
SHEET NO.   REV. NO	1 OF 1   R0