



# **Gujarat Mineral Development Corporation Limited**

## **Tender Document For**

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**Supply & Replacement of 220 KV Switchyard Gantries**

**And**

**Other Works Associated to Switchyard**

**At**

**Akrimota Thermal Power Station**

**Tender Number GMDC/PD-ATPS –Switchyard Gantry -32/21-22**

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**General Manager (Power)  
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**

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**TENDER NOTICE**

**Tender Number GMDC/PD-ATPS-Switchyard Gantry-32/21-22**

|                                    |  |
|------------------------------------|--|
| <b>Place of work</b>               | 2x125 MW Akrimota Thermal Power Station, village Nani Chher, Taluka Lakhpat, district Kutch, Gujarat.  |
| <b>Brief Description of work</b>   | Supply & replacement of 220 KV switchyard gantries and other associates workson turnkey basis.<br>Successful bidder shall provide all material, spares, consumables,machines, manpower, required tools and tackles, testing equipments,etc for performing the work.  |
| <b>Item wise Quantity.</b>         | Turnkey basis  |
| <b>Period of contract</b>          | Turnkey basis.   |
| <b>Estimated Contract Value</b>    | Rs. 92,42,443/- (Rupees Ninety Two Lakhs Forty Two Thousand Four hundred Forty Three Only ) excluding GST.   |
| <b>Availability of Tender</b>      | Tender Document will available on the GMDC website (www.gmdcltd.com) and nprocure portal (https://gmdc.nprocure.com).<br><br>Bids shall be required to be submitted online on the nprocure portal (https://gmdc.nprocure.com).   |
| <b>EMD (Earnest Money Deposit)</b> | Rs. 2,75,000 (Rupees Two Lakhs Seventy Five Thousand Only) in any one of following form<br>➤ DD in favor of GMDC Ltd. Payable at Ahmedabad.<br>➤ Fixed Deposit from Banks approved by Govt. Of Gujarat (except Co-operative Bank) duly pledged in favor of GMDC for a period of not less than 6 (six) months from the last date of submission of bid and shall be renewed from time to time in case of requirement.<br>➤ 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 Annexure-B for approved bank). It should be valid for a period of not less than 6 (six) months from the last date of submission of bid.<br>➤ Digital Mode, Please note if payment is made through Digital Mode kindly submit the receipt of the same in the attached documents.<br>RTGS details for payment (Annexure-B)<br>ICICI Bank, Ahmedabad Branch, Ahmedabad<br>Account Number: 002405019379<br>➤ IFSC: ICIC0000024<br><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> |
| <b>Tender Processing Fee</b>       | Rs. 5,000/- (FiveThousand only) plus GST @ 18% aggregating to Rs.5, 900/- payable by Demand Draft/ Pay Order drawn in favor of "GMDC Ltd." Payable at Ahmedabad.   |



|  |   |
|--|---|
|  | <b><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></b>   |
| <b>Commencement of tender</b>  | 5 <sup>th</sup> February 2022   |
| <b>Last date for download the tender document.</b>                             | 19 <sup>th</sup> February 2022 up to 18.00 Hours  |
| <b>Last date of submission of bid through online</b>                           | 19 <sup>th</sup> February 2022 up to 18.00 Hours  |
| <b>Last date of submission of physical documents i.e. EMD, Tender Fee etc.</b> | 19 <sup>th</sup> February 2022 up to 18.00 Hours at Corporate Office, GMDC Ahmedabad  |
| <b>Date and time for online opening of preliminary bid.</b>                    | 19 <sup>th</sup> February 2022 up to 18.00 Hours at 18.30 Hours   |
| <b>General and Important Terms and Conditions</b>                              | <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 strictly 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 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.</li><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.gmdc.nprocure.comonly">https://www.gmdc.nprocure.comonly</a>. Physical price bid shall not be accepted and shall be rejected summarily without assigning any reasons, whatsoever.</li><li>6. Failure to submit bid online 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> |

## **1 Purpose of the Document**

The Request for Proposal (this document) floated by GMDC (Gujarat Mineral Development Corporation Limited), A Government of Gujarat Enterprise is to select a Partner Agency which would be responsible to Supply & replacement of 220 KV switchyard gantries and other associates works at of 2x125 MW Akrimota Thermal Power Station for a period of six months at the quoted commercials and executed contract terms & conditions.

## **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 more than five 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 NaniChher in Kutch, Wind power plant of 200 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 to be carried out at Akrimota Thermal Power Plant Station (ATPS), located at Village NaniChher of Lakhpat Taluka in Kutch District of the Gujarat State. The project is located about 150 kms from Bhuj. The nearest Railway Station and Airport is at Bhuj.

## **4 About ATPS**

GMDC has 2\*125 MW Thermal Power Project called ATPS. Both the units have been in commercial operation since March, 2005. It is getting Lignite from its own mines located at Mata no Madh and Umarsar. The water requirement for the power plant is taken from the nearest Kori Creek through a 1.4 KM long sea water intake channel. The CFBC boiler is used here as it is environment friendly and controls sulphur in the flue gas emission. A 100 meter thick green belt surrounds the entire site. The state of the art technology DCS has been used.

## **5 General Instructions to Bidder**

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

### **5.1 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.

### **5.2 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 LTD. shall at its sole discretion be entitled to determine the adequacy/ sufficiency of the information provided by the Bidder.

### **5.3 Clarification of Bidding Documents**

GMDC LTD. 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.

### **5.4 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 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 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.

## **5.5 Contact Details**

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

General Manager (Power)  
Gujarat Mineral Development Corporation Ltd.  
Khanij Bhavan, 132' Ring Road, University Ground,  
Vastrapur, Ahmedabad 380 052  
☎EPABX :079-27913501, 27913200Extn.No :1760  
E-mail : power@gmdcltd.com , jndave@gmdcltd.co.in

## **5.6 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 they are accompanied by an accurate translation in English Language.

## **5.7 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.

## **5.8 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.

## **5.9 Site Visit**

**5.9.1** Bidders advised to visit the site to study the actual working conditions, 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.

**5.9.2** 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.

#### **5.10 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 RFP 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.

#### **5.11 Sub Contract**

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

#### **5.12 Consortium / Joint Venture**

Consortium / Joint Venture are not allowed.

#### **5.13 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 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 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.

#### **5.14 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.

#### **5.15 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 D provided in the Tender Document.

**5.16** 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.

**5.17** 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.

## **6 Earnest Money Deposit**

A non-interest bearing Earnest Money Deposit Rs. 2,75,000 (Rupees Two Lakhs Seventy Five Thousand Only) in any one of following form

- Demand Draft in favor of GMDC Limited Payable at Ahmedabad.

OR

- Fixed Deposit from Banks approved by Govt. Of Gujarat (except Co-operative Bank) duly pledged in favor of GMDC for a period of not less than 6 (six) months from the last date of submission of bid and shall be renewed from time to time in case of requirement.

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 than 6 (six) months from the last date of submission of bid.

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: ICIC00000024

***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.***

## **7 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/ Pay Order of Rs. 5,000/- plus GST @ 18% (Rs. 900) aggregating Rs 5,900/- as mentioned in tender notice in the sealed technical bid cover. If the

amount mentioned in the DD/ Pay Order 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, 2016 on the date of submission of Tender.***

## **8 Security Deposit**

**8.1** 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.

**8.2** 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 LOI in any one of following form

- Demand Draft in favor of GMDC Limited Payable at Ahmedabad.

OR

- Fixed Deposit from Banks approved by Govt. Of Gujarat (except Co-operative Bank) duly pledged in favor of GMDC for a period of not less than 18 (Eighteen months) months from the date of receipt of LOI and shall be renewed from time to time in case of requirement.

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 than 18 (Eighteen months) from the date of receipt of LOI and shall be renewed from time to time in case of requirement.

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

- 8.3** It shall be refunded to the Successful bidder, within a period of six months after satisfactory completion of the work and removal of equipment, tools tackles, campsite etc, and the due fulfillment of all the terms and conditions of the contract.
- 8.4** The Successful bidder shall obtain “No Dues Certificate” and “Site Clearance “certificate to this effect from the General Manager [Project] / Project-in-Charge and shall submit the same to the General Manager [Power] at HO, who after verification of the fact will arrange for refund of SD.
- 8.5** The successful bidder will also have to submit “NO DEMAND CERTIFICATE” along with the above mentioned certificate.
- 8.6** The SD deposited by the Successful bidder may be forfeited if the successful bidder fails to adhere to fulfill the conditions of work order / agreement.
- 8.7** 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.
- 8.8** GMDC will reserve the right to recover the charges or the liquidated damages from the Security Deposit in the following circumstances-
- 8.8.1** If the successful bidder or its employees causes any damage or destroy any property belonging to GMDC.
- 8.8.2** 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.
- 8.8.3** Any other dues on account of statutory compliance.

## **9 Procedure for Submission of the Bid**

- 9.1** Offers prepared in accordance with the procedures enumerated below.
- 9.2** 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.
- 9.3** The Bidder should submit their bids in **THREE** parts, these are
- 9.3.1** Pre qualification bid (Details of EMD and Tender Fee),
- 9.3.2** Technical Bid
- 9.3.3** Price Bid.

**9.4** Manual price bids or the bids submitted by telex/ telegram/ fax/ e-mail etc. will not be accepted under any circumstances. No correspondence will be entertained on this matter.

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

**9.6** 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/PD-ATPS-Switchyard Gentry -22/21-22 and Name of work: "Supply & replacement of 220 KV switchyard gantries and other associates works on turn-key basis". Bids must be submitted as per the schedule (date & time) indicated in tender notice.

## **10 Eligibility and Qualification Criteria of Bidder**

### **10.1 Experience**

**10.1** The Bidders should have following minimum experience of having successfully completed similar works during last 7 (seven) years ending on last day of January 2022 (i.e. period from 28.02.2014 to 31.1.2022):

A. Three similar completed works each having amount of Rs 37,00,000/- (Rupees Thirty Seven Lakhs Only) or more during last 7 (seven).

**OR**

B. Two similar completed works each having amount of Rs 46,21,000/- (Rupees Forty Six Lakhs and Twenty One Thousand Only) or more during last 7 (seven) years.

**OR**

C. One similar completed work having amount of Rs 73,94,000/- (Rupees Seventy Three Lakhs and Ninety Four Thousand Only) or more during last 7 (seven) years.

Similar works means the Bidders should have experience in replacement of either 66KV OR more Switchyard Gantry erection at power plant or switch yard of any industry carried out under the single LOI/Work Order/Agreement.

Bidder shall submit the details of work completed in FORM PC as provided in the Tender Document. Statement of experience with work orders and work executed

certificates duly certified by the certificate issuing authority shall be submitted as supporting documents.

## **10.2 Financial**

**10.2.1** Bidder must have an average positive Net Worth for last three financial year of 2018-19, 2019-20 and 2020-21.

**10.2.2** Bidder must have a Minimum Average Turn over of Rs 27,72,000/- (Twenty Seven Lakhs and Seventy Two Thousand Only) for financial year of 2018-19, 2019-20 and 2020-21.

A certificate from Chartered Accountant regarding financial capacity shall be submitted as per format provided in FORM PC of the Tender Document.

## **10.3 License**

The Bidder should have valid statutory certification / License for working in 220KV lines, switchyard.

## **10.4 Site Visit Certificate**

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

## **10.5 Blacklisting of the Bidder**

The Bidder or its directors have not been blacklisted by any Government Organization, nor should any litigation be pending against any of them. 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.

## **11 Scope of Work**

**11.1** All works in this tender shall be carried out on turn-key Basis.

**11.2** The quantity of each item (s) and consumable(s) may vary. The variance in quantity is +/- 100% of given quantity of each item/consumable. Subject to the variance in cost is +/- 10% of total contract value,

**11.3** The essence of this contract is to carry out above works in specialized manner.

**11.4** The bidder shall complete the supply of materials within 8 weeks of issuance of LOI.

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- 11.5** The bidder shall arrange all materials, Spares, consumables, power tools, Crane, hydra, other vehicles, machineries, tool and tackles and start the work within 12 weeks of issuance of work order.
- 11.6** The bidder shall visit the ATPS site and check the site condition. The bidder prepare detailed list of required spares, consumables, power tools, tools and tackles, vehicles like hydra, crane. Etc, Line outages, Switchyard zero power requirement, etc along with bar chart for carrying out proposed works.
- 11.7** The bidder shall submit the above detailed list along with bar chart indicating line and switchyard outages within 3 weeks from the date of issuing of LOI.
- 11.8 The work for repair of Gantry concrete foundation.**
- The bidder shall supply and carry out the works as per annexure “C”, if required and if decided by GMDC Civil Engineer at the time of carrying out the gantry replacement work.

**11.9 Supply of material and replacement** of SY 4nos. Line side Gantry of 06 nos. of columns and 4 nos. of beam in totality, 1200 meters earth wire, Zinc Coating of balance GI structures” at ATPS Switchyard shall be as given below

| Sr. No. | Description of materials  | Unit | Qty    |
|---------|---|------|--------|
| 1       | GI Structure for line Gantry of 4 beams and 6 columns – Supply  | KG   | 31,455 |
| 2       | GI nuts and bolts for above structures including foundation nut bolts:- Supply  | KG   | 2,300  |
| 4       | Tension Hardware for ACSR Zebra conductor for above. Supply and replacement   | No   | 24     |
| 5       | Dismantling and erection charges of gantry with 4 beams and 6 columns, including Removal and re-fixing of existing twin fly over bus of line/GT and restraining thereof | KG   | 33,755 |
| 6       | Lightning arrestor over head earth wire - supply and replacement job  | Mtr  | 1,200  |
| 7       | <b>For existing 72 tones of GI Structure:-</b> supply and coating of Zinc paint of minimum 150 Micron   | KG   | 72,000 |

**11.10** Specification of gantry materials shall be of GI (hot deep galvanized) with minimum 150 micron Zinc coating, suitable for 220KV Lines and adhering to IS standard. The successful bidder shall produce the proof in this regards. Dimensions of gantry structure materials shall be same as per the existing gantry which is given the annexure “D”

#### **11.11 Material Specification**

- 11.11.1** All Structural steel area of MILD steel and shall conform to IS: 2062-1992. (Grade “A” Standard quality) and fabrication shall conform to IS : 802 (Part-II)-1978.
- 11.11.2** All bolts and nuts shall be of hexagonal type and shall conform to IS: 6639-1972.
- 11.11.3** All plain washers shall conform to IS: 2016-1962
- 11.11.4** All spring washers shall conform to IS: 3063-1994
- 11.11.5** All step bolt shall be of mild steel and shall be conform to IS: 10238-1982.
- 11.11.6** All steel section shall be in accordance with IS: 808-1989.
- 11.11.7** Minimum Thickness of members for Lattice structures shall be as follows:
- 11.11.8** Main leg members shall be 6mm.
- 11.11.9** Bracing /secondary/redundant Members shall be 5mm.
- 11.11.10** Gusset plates shall be 6mm.
- 11.11.11** Minimum Diameters of fastening bolt shall be 16mm for grinders, tower structures.

### 11.12 Galvanization

- 11.12.1 All exposed structural steel shall be HOT DIP Galvanized as per IS: 4759-1984.
- 11.12.2 With a min coating thickness of 150 microns(1045 g/sq.m).
- 11.12.3 All bolts nuts and washers shall be Hot dip galvanized as per IS:1367.
- 11.12.4 (part-XII)-1983 with A min coating thickness of 86microns (610 g/sq.m).
- 11.12.5 All spring washers shall be electro galvanized as per IS: 1573-1986(service grade-3)
- 11.12.6 All foundation bolts shall be HOT dip galvanized as per IS:5624-1993 with A minimum coating thickness of (610 g/sq.m).

### 11.13 Fabrication and others:

- 11.13.1 All holes shall be 1.5mm Greater than diameter of bolts unless otherwise specified.
- 11.13.2 Minimum shear and rolled edge distances thickness of spring washers & pitch shall be as follows (in line with IS: 802 part-II 1978).

| DIA of bolt | Min shear Edge distance (mm) | Min Rolled Edge distance (mm) | Min Thick of spring washers (mm) | Pitch |
|-------------|------------------------------|-------------------------------|----------------------------------|-------|
| 16mm        | 23                           | 20                            | 3.5                              | 40    |
| 12mm        | 20                           | 16                            | 2.5                              | 32    |

- 11.13.3 Bearing angles shall be suitable chamfered wherever necessary.
- 11.13.4 Heel of all splice angles to be founded to suit the fillet of the main member.
- 11.13.5 All members shall be properly marked for erection purpose.
- 11.13.6 One no spring washer shall be provided under each bolt.

11.14 The only addition in the supply of gantry material shall be that the supplied gantry structure materials including angles, nut and bolts shall be at least 150 micron zinc coated. The bidder shall prepare required tools and tackles list, Manpower requirement, other spares, if any and consumables. Hydra, Crane etc. The work shall be carried out on turn-key Basis.

11.15 The supplied gantry materials quality and dimension shall be same as that of new equivalent existing gantry materials and confirming to suitability of 220KV use.

11.16 In addition to above, the supplied gantry materials should be with atleast 150 micron zinc coating. The test certificate shall be provided and The bidder shall intimate GMDC for inspection of material before dispatch from manufacturer site.

- 11.17** Required switchyard shutdown of shall be given for isolating lines. The bidder shall remove required connections and bind the disconnected conductor properly, so that accidental energization shall be avoided. The bidder shall normalize the isolation.
- 11.18** Permit to work of lines, bus and GT shall be obtained by GMDC. However the bidder shall carry out required work for safe outages.
- 11.19** Removal and re-fixing of existing twin flyover bus offline, Bus Coupler and restraining thereof for carrying out above works shall be carried out.
- 11.20** The bidder shall disconnect all electrical connections and remove all existing equipment like CT, CVT, Wave trap, Insulators etc including conductors and connectors safely and store safely.
- 11.21** The bidder shall reconnect all electrical connections and re-fix all existing equipment like CT, CVT, Wave trap, Insulators etc including conductors and connectors safely.
- 11.22** Lifting and shifting of old gantry material to designated place and proper sorting and arranging shall be carried out by the bidder.
- 11.23** Fabrication and installation of new materials shall be carried out as per standard practice in totality.
- 11.24** The drawings are attached at the annexure-Z shall be referred for detailed specification and works.
- 11.25** Electrical Connection and disconnection of the equipments Breaker pole shall be in successful bidder's scope.
- 11.26** The bidder shall procure all materials like HDG Structures, GI Nut-Bolt, tension hardware, etc and supply and store at APTS site with own security at his risk and cost before starting the work after carrying out GMDC procedure for gate pass and store as described above before starting of the work.
- 11.27 Scope of work for Supply and replacement of Lightning guard earth wires**
- 11.27.1** Supply Lightning guard G.S earth wire of grade 7/3.67mm.
- 11.27.2** Removal of existing Lightning guard G.S earth wire.
- 11.27.3** Replacement of 1200 mtr earth wire on 4 nos. of line gantries and 2 Nos. of GT.
- 11.27.4** All required manpower, tools, tackles, etc to complete 1200 mtr replacement of earth wire shall be in the bidder's scope.

**11.28 Scope of work for Supply of Zinc coating material and work of coating of existing GI Gantry structures**

- 11.28.1** The bidder shall visit the ATPS site before submitting price bid and prepare the quantity of Zinc paint required to coat GI structures of rest existing Gantry of ATPS switchyard of 17 nos. of beams and 25 nos. of columns. Specification of Zinc coating shall be as per standard practice in substation
- 11.28.2** Supply of Zinc paint of required quantity and other related materials for painting of 17 nos. of beams and 25 nos. of columns totalling 72 tons of GI structures.
- 11.28.3** However, Payment shall be based in quantity of Zinc (per KG) used. Therefore, the bidder shall calculate total amount for supply of all related materials and carry out the coating work in totality. The bidder shall quote the rate accordingly.
- 11.28.4** Scrapping and cleaning of all GI structures before painting shall be carried out upto the satisfaction of GMDC.
- 11.28.5** The coating shall should be of at least 150 Micron zinc.
- 11.28.6** The coating thickness shall be uniform and measurement of thickness of coating shall be checked by the bidder and show to GMDC EIC on demand.
- 11.28.7** The coating work shall be carried out by Gcoat method or hot deep galvanizing method or by any other standard method.
- 11.28.8** All required special machines, Compressor, tools and tackles, Manpower and consumables. Hydra, Crane etc. shall be under the bidder's scope.

**11.29 Supply and replacement of 220 KV breaker poles at ATPS Switchyard shall be as follows:**

- 11.29.1** Supply and replacement work of Complete pole unit assembly W/O housing For, 245KV, 40KA, 1600Amp, 220KV SP-PN Breaker (SF6 Gase Breaker), Type: 200-SFM-40A, Make: CGL Only, Ref.Sr.no: 16199C.
- 11.29.2** The Bidder shall supply breaker poles -01 nos. as mentioned above by 10 weeks of issuance of Work order.
- 11.29.3** Before dismantling breaker pole, Old breaker physical checking shall be done by bidder in presence with GMDC EIC. No Damage should be caused while dismantling by bidder.
- 11.29.4** The contractor shall visit the site and check the required details of old existing equipments for confirming the interchange ability, compatibility of one to one replacement of new supplied equipment.
- 11.29.5** If new supplied equipment like breaker pole found non-compatible for one to one replacement, the bidder shall exchange the supplied equipment so as to fit for one to one replacement without any additional cost to GMDC.

- 11.29.6** The bidder shall disconnect and remove the old breaker pole from its present position,
- 11.29.7** All connecting conductors, hollow pipe, terminal pad etc removing and reconnecting with cleaning, shall be in bidder scope.
- 11.29.8** The bidder shall shift and submit old breaker pole in undamaged condition to GMDC designated location.
- 11.29.9** shifting and lifting of the new equipment to the existing point.
- 11.29.10** Removal of existing breaker pole from its position safely and completely in every respect,
- 11.29.11** Fixing of the new equipment mechanically in all respect.
- 11.29.12** Completing electrical connection in all respect.
- 11.29.13** Installation and commissioning of the equipments, breakers shall be in bidder's scope.
- 11.29.14** Testing of breaker including all three poles like DCRM, CRM and IR value shall be carried out after installation.
- 11.29.15** Any Old accessories which is required to be used, shall be cleaned, checked thoroughly. Setting & fitting shall be in bidder scope.
- 11.29.16** 245KV line breaker with 1 new and 2 existing old poles with cabinet servicing and all three pole alignment setting up satisfactorily shall be in bidder scope.
- 11.29.17** Removal of 245KV old pole SF6 gas to bottle and refilling SF6 gas shall be in bidder scope.
- 11.29.18** Supply and Refilling of SF6 gas up to 50 KG SF6 Gas shall be in bidder's scope.
- 11.29.19** New supplied equipment original test and warranty certificate shall be submitted before starting the work.
- 11.29.20** 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.
- 11.29.21** All machines and kits' earthing should be properly connected by bidder.

**11.30 Other scope of work of the bidder:**

- 11.30.1** This is being Switchyard major work, Quantity of supply and work may vary up to 100% with the total limit of excess value up to 10% of the contract value.
- 11.30.2** All safety precaution shall be taken by the bidder.
- 11.30.3** All types of required machines, power tools, vehicles, tools, tackles and testing equipments with man power shall be in bidder scope for carrying out above work in scheduled time shall be in bidder scope.
- 11.30.4** Proper care should be taken not to damage any equipments while carrying out any work. If 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.

- 11.30.5** Bidder shall have no rights to claim any amount without carrying out actual work.
- 11.30.6** Anything and everything required to restore the gantry shall be in bidder's scope.
- 11.30.7** If for dismantling and erection of these gantries any equipment removal from existing location is required, then the safe removal, shifting, storage and re-fixing of those equipment shall be in bidder's scope in totality including disconnection and reconnection, etc.
- 11.30.8** All type transportation of manpower and machines, tools, tackles, Hydras, Cranes, Compressors, special machines, testing equipments, etc.
- 11.30.9** The bidder shall mobilize all manpower, Tools, Power tools, Tackles, Consumables, Vehicles, testing instruments, etc at least 5 days before the date of starting the work.
- 11.30.10** Earthing rod for discharging 220KV lines, GT, Safety belt for height works, etc shall be in bidder's scope.
- 11.30.11** Even Inside plant premises, all types of transportation shall be in bidder's scope.
- 11.30.12** Loading unloading of equipments, spares, tools, tackles and test kits even inside ATPS shall be in bidder scope.
- 11.30.13** Lifting and Shifting of equipments, spares, tools, tackles and test kits to different locations & different elevation within ATPS power plant shall be in bidder's scope.
- 11.30.14** All types of safety, PPEs, security shall be for its manpower, machines, tools & tackles and GMDC equipments shall be in bidder's scope
- 11.30.15** Bidder shall bring required cables for extending power to its apparatus, if required.
- 11.30.16** Single point of 415V, 63 Amp 3 phase and single point of 230V,16 Amp single phase power supply point from maximum 40mtr distance shall be provided by GMDC free of cost.
- 11.30.17** Lighting fixtures, if required, shall be arranged by bidder to carry out entire job smoothly.
- 11.30.18** Cross checking of Isolation and confirmation of it, Discharging and earthing of apparatus shall be in bidder's scope.
- 11.30.19** All types of manpower including technical experts, engineers, height workers, skilled/unskilled helper etc. required to carry out the work shall be in bidder's scope.
- 11.30.20** All types of tools, tackles and testing instruments, safety PPE's,etc shall be in bidder's scope.
- 11.30.21** The work shall be carried out properly with proper tools and tackles.

- 11.30.22** The bidder shall procure all listed materials and supply and store at ATPS site with own security at his risk and cost before starting the work after carrying out GMDC procedure for gate pass and store as described above before starting of the work.
- 11.30.23** The coating thickness shall be uniform and measurement of thickness of coating shall be checked by the bidder and show to GMDC EIC on demand.
- 11.30.24** All required Compressor and other machines, tools and tackles, Manpower and consumables. Hydra, Crane etc. shall be under the bidder's scope.
- 11.30.25** The contractor shall visit the site and check the required details of old existing equipments for confirming the interchange ability, compatibility of one to one replacement of new supplied equipment.
- 11.30.26** This job shall be carried out in complete turn key basis. Any material, machine, tools, tackles, manpower, vehicles, expert, etc shall be the scope of bidder to enable the completion of erection and commissioning of these 4 gantries.
- 11.30.27** All connecting conductors, hollow pipe, terminal pad etc removing and reconnecting with cleaning, shall be in bidder scope.
- 11.30.28** shifting and lifting of the new equipment to the existing point.
- 11.30.29** Fixing of the new equipment mechanically in all respect.
- 11.30.30** Completing electrical connection in all respect.
- 11.30.31** All consumables types material like cotton waste, scrubber, emery paper, all types greases, cleaner spray, circlip, nut bolts, washer, sealant, packing etc shall be in bidder scope.
- 11.30.32**
- 11.30.33** Mobilization, demobilization and all types of conveyance for crew shall be in the successful bidder's scope.
- 11.30.34** Lighting arrangement if required shall be in the successful bidder's scope.
- 11.30.35** Canteen facility on availability shall be given on chargeable basis at ATPS during working period.
- 11.30.36** Lodging facility at ATPS Hostel or Labour colony or D-types quarters, if available shall be provided on nominal chargeable basis by GMDC.
- 11.30.37** Bidder shall have to ensure the work cycle be completed within the stipulated period as it involves line permit from SLDC.
- 11.30.38** Daily progress report shall be submitted by contractor.
- 11.30.39** 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.
- 11.30.40** 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.

- 11.30.41** 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.
- 11.30.42** The successful bidder shall keep GMDC indemnified from all liabilities arising out of his action in pursuance of this contract.
- 11.30.43** All persons deployed by the successful bidder shall maintain due discipline and GMDC reserves the right to take disciplinary action, if required.
- 11.30.44** The successful bidder shall arrange Police clearance before starting of each washing cycle and submit it along with all manpower's documents to GMDC for issuing GMDC Gate pass.
- 11.30.45** The contractor shall ensure sufficient availability all resources to avoid any delay in completion of the work.
- 11.30.46** Maintaining cleanliness of the working area and finally cleaning the working area and collection, removal of scraps, all parts, dust and dirt shall be in the successful bidder scope.

### **11.31 GMDC Obligation**

- 11.31.1** Obtaining permit and Isolation of equipment for the work shall be in GMDC scope
- 11.31.2** Single point of 415V, 63 Amp 3 phase power supply and 230V, 16 Amp single phase power supply point from maximum 40 mtr distance shall be provided by GMDC free of cost.
- 11.31.3** Lodging and boarding for bidder manpower shall be provided based on availability and on nominal chargeable basis.

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

- 12.1** This is on turnkey basis.
- 12.2** The schedule of different works is given in scope of work.
- 12.3** The work schedule shall be based on permission from SLDC etc and but GMDC will arrange the permission within one year.
- 12.4** 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.

**12.5** 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.

### **13 Measurements**

**13.1** The complete execution of the work and supply of spares, consumables, equipments & Materials 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.

**13.2** Payment shall be done @ unity UOM actually consumed / used in the work, which should be duly signed by the bidder and GMDC.

**13.3** Contractor has to submit the material account statement along with the work measurementsheet. Any Invoice without material account statement shall not be processed, this may please be noted.

**13.4** All the materials to be supplied as per the scope of works and or supply shall be credited to GMDC main stores only. During the work execution the same shall be issued from the main store to the contractor/representative of the contractor.

### **14 Liquidated Damages (LD)**

**14.1** If the Contractor fails supply to start the actual work within 12 weeks from the date of issuance of work order a liquidated damages @ Rs 20,000/- per day shall be levied subject to a maximum of 10% of the total contract value. If the Contractor fails to start work even after 10 days thereafter, the GMDC will be free to forfeit the EMD and/or SD, or both the EMD and SD and take action stipulated.

**14.2** Time is the essence of the contract and successful bidder has to work within 45 days of starting the work. Looking to this, if the delay in works is happened and is found attributed to the contractor, the LD shall be recovered at the rate of 20,000/- per day for delay period with the maximum sealing limit of 10% of the total contract value.

- 14.3** Proper care should be taken not to damage any equipment while carrying out any work. If 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.
- 14.4** Incompletion of any work or part of the work found of the contract affecting to the operation and safety of equipments and man power shall be considered non-completion of the work and may lead to liquidated damage.
- 14.5** Under any circumstances GMDC shall not be liable to pay any compensation to the Contractor.
- 14.6** The material required for the work shall reach to ATPS store well within 10 weeks from the date of issuing work order.
- 14.7** The overall cap on total LD for delay in supply and/or work shall be 15%.

## **15 Performance Guarantee**

- 15.1** Contractor has to give performance guarantee for The erected Gantries for 02 years of from the date of completion of the work.
- 15.2** If any defects observed during the guarantee period in the gantries, then the bidder shall carry out the repairing including supply of required materials, tools, tackles, power tools, manpower, machine, etc in totality within 1 months period of intimation by GMDC.
- 15.3** The 10% SD shall be converted in the performance BG for the above specified period in para-6.
- 15.4** The performance guarantee for the supplied material shall be considered as specified in performance clause mentioned in scope of work. To meet with the requirement of BG for such items beyond the period, the BG at reduced rate for remaining period and material shall be submitted prior to release of the main BG.
- 15.5** The performance guarantees for all the supplied materials shall be 12 months from date of installation or 18 months from the date of supply of the materials whichever is earlier.

- 15.6** If any defects observed during the guarantee period on the supplied spares/ materials/ Works, then the bidder shall carry out the repairing / total replacement, including supply of required materials, tools, tackles, power tools, manpower, machine, etc in totality within 1 months period of intimation by GMDC.
- 15.7** If the bidder does not carry out the repairing work / replacement of spares within 1 months of intimation, The GMDC shall be free to carry out the repairing on the cost and risk of the bidder and deduct the cost from bidder's account.
- 15.8** The Performance BG will be returned to contractor after successful completion of guaranteed period.

## **16 Goods & Service Tax**

- 16.1** 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.
- 16.2** 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 Successful bidder will mention the GST amount separately in the invoice/bill along with SAC/HSN Code under GST.

## **17 Insurance**

- 17.1** 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.
- 17.2** 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.

**17.3** 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.

**17.4** 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 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.

## **18 Payment Terms**

**18.1** The Successful Bidder shall submit bill for the after completing the mentioned work in all respect including removal shifting and submitting the old spares, scraps to designated place / main store, cleaning of the location.

**18.2** Payment shall be done only after completion of total work.

**18.3** Bill shall be submitted to the office of the General Manager (Power Project), ATPS with following documents:

**18.4** Duly Certified certificate of completing work.

**18.5** Check List as per format provided by GMDC.

**18.6** Any other documents if any as prescribed by GMDC as and when requires.

**18.7** The Running Account bills, submitted at the office of General Manager (Power Project) will be processed there considering following deductions.

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

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

**18.10** Liquidated damages,

**18.11** Other deductions, if any.

**18.12** An ad-hoc payment @ 80% of the payable amount arrived after considering above deduction, will be paid by office of the G.M. [Power Project], within 30 days of submission of the bill along with its details.

**18.13** The bill shall then be sent to GMDC's Corporate Office at Ahmedabad for verification, auditing and approval. Balance 20% payable amount of Running account bills shall become payable by Project within two weeks of the receipt of the approved bill from Corporate Office.

## **19 Evaluation of Bids**

### **19.1 Completeness of Bids**

GMDC, will examine the bids to determine whether they are complete, whether they meet all the conditions of the RFP 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.

### **19.2 RFP 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.

### **19.3 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.

### **19.4 Opening of Bids**

Technical bids will be opened after verification of receipt of payment towards Tender 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 on line opening of price bids by fax or telephone or email or SMS. However, all successful the bidders will be able to view the price bids online on their computers after opening of price bid.

### **19.5 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 successful bidder's of the grounds for GMDC Ltd., action/decision.

### **19.6 Negotiation**

It is absolutely 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 into any price negotiations or not.

### **19.7 Acceptance of LOI**

**19.7.1** 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 time 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.

**19.7.2** The Successful bidder shall have to submit the Security Deposit with 10 days from the date of LOI. The Successful bidder shall submit the Security Deposit in the manner prescribed in this Tender Document. 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.

**19.7.3** The successful bidder, along with the payment of Security Deposit, shall have enter into a contract/ agreement with the GMDC on appropriate Stamp Paper (to be provided by the Contractor) in token of acceptance of the terms and conditions of the contract, within 30 days from date of LOI. In case of any necessity arising after executing the agreement 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.

## 20 Statutory Obligations

- 20.1** That the Successful Bidder shall obtain license under the Bombay Shops and Establishment Act and it 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.
- 20.2** That the Successful Bidder shall get his own License under Contract Labour (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.
- 20.3** 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.
- 20.4** 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 project site.
- 20.5** The Successful Bidder has to issue to the employee's Identity card with their photos and shall also maintain relevant register.
- 20.6** That the Successful Bidder shall give leave/holiday to its workforce as per the provisions of labour laws applicable.
- 20.7** Every person deployed by the Successful bidder in a plant must wear safety gadgets to be provided by the Successful bidder.
- 20.8** Any statutory clearance, permission required for the work, it's completion, commissioning shall be in bidder's scope.
- 20.9** The Successful bidder will be required to obtain License from the office of the Labour Commissioner for the required strength of labour, before commencement of work at site and the same shall be maintained updated and valid throughout the currency of the contract.

**20.10** 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.

**20.11** That the Successful Bidder would obey with all applicable laws and maintain all such necessary records as necessitated under such enactments.

**20.12** 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.

**20.13** 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 factious 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 Indian Boiler Regulation Act, 1950 and rules made there under
- The Minimum Wages Act, 1948
- 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

## **21 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.

## **22 Notice**

Written notice shall be deemed to have been duly served if delivered to the individual or to 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.

## **23 Canvassing Not Permitted**

**23.1** 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 (Power), if he desires, but personal and oral representations are not permitted.

**23.2** 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 black listed.

## **24 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.

## **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, 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.

## **26 Governing Law**

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

## **27 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.

## **28 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.

## **29 Completion Of Work**

**29.1** 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 General Manger (Power Project) of GMDC 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.

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

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

## **30 Accident and Responsibilities of Bidder**

**30.1** 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.

**30.2** In the event of any breakdown or accident during the course of any operation, the Successful bidder shall notify the facts to the Project 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 Project Authority.

**30.3** 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.

### **31 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 arranging any reasons or notice there for.

### **32 Force Majeure**

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

**32.2** Natural phenomena such as flood, draughts Cyclone, earthquake and epidemics, declaration of war.

**32.3** 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.

**32.4** 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.

- 
- 32.5** 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.
- 32.6** 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.
- 32.7** 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.

**Instruction to Bidders for Online Tendering**

- 4.1 All Bidders must submit their bid online through the website <https://gmdc.nprocure.com>
- 4.2 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.
- 4.3 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 26857316/17/18 Fax: +91 79 26857321, Toll Free: 1800-233-1010**

**E-mail : nprocure@gnfc.net**

- 4.4 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.
- 4.5 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.
- 4.6 (n) code solutions reserves 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.
- 4.7 Bidders who have no facility to participate in on-line tenders are requested to contact (n) code solutions for the same.
- 4.8 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 at Clause No. 5 of Chapter No-III. Bidders are requested to take benefit of the same.
- 4.9 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: General Manager (Power)

Contact numbers: 079-27913200/3501 Ext No 1760

E-Mail: power@gmdcltd.com; jndave@gmdcltd.co.in

**b. GNFC:**

Contact Number: 079- 26857316/17/18

E-Mail: nprocure@gnfc.net

**Annexure I.**

Finance Department, Corrigendum No.: EMD/10/2021/7729/DMO

Date: 28/06/2021

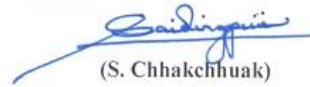
A) Guarantees issued by the following banks will be accepted as SD/EMD on permanent basis:

❖ All Nationalized Banks

(B) Guarantees issued by the following Banks will be accepted as SD/EMD for the period up to March 31, 2022. 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.

- ❖ The Mehsana Urban Co-operative bank Limited
- ❖ Ahmedabad Mercantile Co-Operative Bank Limited
- ❖ Nutan Nagrik Sahakari Bank Limited
- ❖ Kalupur Commercial Co-Operative Bank Limited
- ❖ RBL Bank
- ❖ Axis Bank
- ❖ ICICI Bank
- ❖ HDFC Bank
- ❖ Kotak Mahindra Bank
- ❖ IndusInd Bank
- ❖ Rajkot Nagarik Sahakari Bank Limited
- ❖ The Gujarat State Co-Operative Bank
- ❖ Sarswat Bank
- ❖ Saurashtra Gramin Bank
- ❖ DCB Bank
- ❖ Tamilnadu Mercantile Bank
- ❖ Ujjivan Small Finance Bank
- ❖ A U Small Finance Bank
- ❖ Federal Bank
- ❖ Equitas Small Finance Bank
- ❖ Bandhan Bank
- ❖ Standard Chartered Bank
- ❖ City Union Bank
- ❖ Yes Bank

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



(S. Chhakchhuak)  
Additional Secretary (B)  
Finance Department



### Bank Details for RTGS

VALID FOR THREE MONTHS ONLY

|   |   |   |   |   |   |  |  |  |  |
|---|---|---|---|---|---|--|--|--|--|
|   |   |   |   |   |   |  |  |  |  |
| D | M | Y | Y | Y | Y |  |  |  |  |

OR ORDER

₹

FOR GUJARAT MINERAL DEVE CORP LTD

**ICICI Bank**  
Ahmedabad Branch  
Jmc House, Opp. Parimal Garden, Ahmedabad - 380006.  
RTGS/NEFT IFSC Code : ICIC0000024

**RIVILEGE**  
RESORTS

*Gandhi*

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

A/c No. 002405019379

Pay Rupees

28/12/12 N 51

SESHASAI (M) (TS) 2010

AUTHORISED SIGNATORIES  
Please sign above

⑈ 491099⑈ 380229002⑈ 019379⑈ 29



**FORM - PA**

**CHECK LIST OF DOCUMENTS ENCLOSED WITH TENDER**

**TECHNICAL BID**

| <b>Sr. No.</b> | <b>Document</b>  | <b>Declaration (Strike out whichever is not applicable)</b> |
|----------------|--|---|
| 1.             | Tender Processing Fee  | Yes/No  |
| 2.             | EMD  | Yes / No  |
| 3.             | <b>Form PA</b> (check list of documents enclosed with tender)  | Yes / No  |
| 4.             | <b>Form PB</b> (Status of the Bidder)  | Yes / No  |
| 5.             | <b>Form PC</b> (CA Certification for Financial Details and work carried out during the last seven years of bidder) | Yes / No  |
| 6.             | <b>FormPD</b> (Declarations)   | Yes / No  |
| 7.             | <b>Form PE</b> (Undertaking of Genuineness of Document)  | Yes / No  |
| 8.             | <b>Form PF</b> (Undertaking of Indemnity)  | Yes / No  |
| 9.             | <b>Form PG</b> (Site Visit)  | Yes / No  |
| 10.            | Power of Authority to sign the documents (Duly Notarized on Stamp paper of Rs. 300)                                | Yes / No  |

**PRICE BID**

|          |   |          |
|----------|---|----------|
| <b>1</b> | Online Price bid submission in <b>Form PP</b> | Yes / No |
|----------|---|----------|



**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 black listed 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

**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 2017-18  
Rs. \_\_\_\_\_ for the Year 2018-19  
Rs. \_\_\_\_\_ for the Year 2019-20

1.2 Turn Over = Rs. \_\_\_\_\_ for the Year 2017-18  
Rs. \_\_\_\_\_ for the Year 2018-19  
Rs. \_\_\_\_\_ for the Year 2019-20

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

**2. Details of Work Carried Out During the Last Seven Years by the Bidder**

| Sr. No. | Description of work with Work place | 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**

**FORM PD**

**Declaration**

(On letter head of the Bidder)

DATE:

To,  
The General Manager (Power),  
Gujarat Mineral Development GMDC Ltd.,  
“KhanijBhavan”, 132 ft. Ring Road,  
University Ground, Vastrapur,  
Ahmedabad-380015

Dear Sir,

I/we here by solemnly declare that

1. Any of our Directors or Partners, jointly or severally and/or individually or our firm/GMDC have not been black listed by the Central Govt. or the State Govt. or its undertakings.
2. We have not put any condition in our offer with respect to Tender No. \_\_\_\_\_,
3. We have accepted all the terms and conditions, including Annexure, Corrigendum if any, as specified in the Tender Document No. \_\_\_\_\_ unconditionally.

I/we here by further declare that, if the declaration is found untrue, the GMDC shall be entitled to take any action against us severally and/or individually or our firm/GMDC in this regard in any manner that may be deemed fit by GMDC.

Yours faithfully,

\_\_\_\_\_  
Signature and Stamp of the Bidder



**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 .....



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

To,

The General Manager (Power)  
Gujarat Mineral Development Corporation Ltd.  
KhanijBhavan  
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)



**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, man power, 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 .....

**PRICE BID FORM – PP**  
**(To be submitted online)**

A)Supply of material and repairing of concrete Foundation of gantry

| Sr. | Description of materials   | Unit | Qty | Unit Rate (Rs/Unit) | Total Price (Rs) |
|-----|--|------|-----|---------------------|------------------|
| 1   | <p>Providing and injecting the fixed packers with a two component, low viscosity, epoxy resin based injection grout under pressure of 5-6 kg/cm<sup>2</sup> including cutting/removal of nozzles/nipples as necessary after completion of grouting as per technical specification inclusive of all labour, scaffolding, materials, equipment etc. at all levels. Complete as per instruction of engineer in charge. The product to be used for injection shall have the following minimum key performance properties, viscosity:160-270 CPS -Bond strength (ASTM (882 C 882)(2days and 14 days):&gt;7 Mpa and 10Mpa - Water absorption, 24 hr ASTM D570: &lt;1%- Compressive strength, ASTM D 695 (7days):&gt;90Mpa-Tensile Strength, ASTM D638, 7dAYS):&gt;50mPA - Elongation at Break, ASTM D 638, 7 Days: &gt;1% (Payment will be on actual consumption basis) for Gantry foundation.</p> | KG   | 70  |                     |                  |
| 2   | <p>Providing and fixing standard PVC injection packers at all levels of minimum 10mm dia</p>   | nos. | 200 |                     |                  |

|   |   |     |      |  |  |
|---|---|-----|------|--|--|
|   | including after drilling holes of required diameter at a spacing of maximum 300 to 500 mm c/c, sealing the packers using epoxy putty, removal of packers after grouting, including of manpower, equipment, scaffolding etc. Also includes chipping, cutting and sealing at 10.00 M and above height for Gantry structure.   |     |      |  |  |
| 3 | Rebuilding and jacketing the column by providing , laying and compacting free flow M40 Grade of microconcrete Polygrout or equivalent matching with the specification with approval with addition of 25% by weight 10mm down size crushed aggregate and bipolar corrosion inhibitor epco kp 200 or equivalent at 6 kg/m <sup>3</sup> as per the actual drawings including scaffolding, formwork, labour and equipment etc. all height. Curing must be done by use of hessian maintained in a damp condition minimum for 7 days for Gantry Column. Dismantal of existing RCC not allowed by impact like hammer/manual/labor etc. During removal of existing structure from the base, must be take care for removal of structure and not move/displacement of any foundatin bolt from its position and for the same the all liability and responsibilitity is under contractor scope. | cmt | 1.08 |  |  |
|   | Same as Above-  | cmt | 0.78 |  |  |

| 4  | Supplying and providing 8/10/12 mm dia reinforcement TMT CSR bars (FE 500) conforming to IS : 1786 including intial straightening of coiled/uncoiled bars, removal of loose rust, cutting, bending to correct size & shape, binding with 18 gauge GI wire, welding new reinforcement with existing reinforcement, re-baring by drilling the hole and anchoring using epoxy grouts in standard practice as per site condition and drawings, preparing the surface of new steel reinforcement by sand blasting/shot blasting to have proper bond and applying two coats of anticorrosive coating IPNET RB or equivalent for protection of against active corrosion etc including manpower, tools, tackles, machineries, scaffolding etc. complete. The joint records to be prepared for measurements and payment for Gantry foundation & Column. | Kg   | 18.6      |                     |                  |
|--|--|------|-----------|---------------------|------------------|
|  | Same as Above-   | Kg   | 13.3<br>9 |                     |                  |
| B)Supply of material and replacement of SY 4nos. Line side Gantry of 06 nos. of columns and 4 nos. of beam in totality, 1200 mtr earth wire, Zinc Coating of balance GI structures at ATPS Switchyard. |  |      |           |                     |                  |
| Sr.  | Description of materials   | Unit | Qty       | Unit Rate (Rs/Unit) | Total Price (Rs) |
| 1  | GI Structure for line Gantry of 4 beams and 6 columns - Supply   | KG   | 31,455    |                     |                  |
| 2  | GI nuts and bolts for above structures including foundation nut bolts:- Supply   | KG   | 2,300     |                     |                  |



|          |   |      |        |  |  |
|----------|---|------|--------|--|--|
| 4        | Tension Hardware for ACSR Zebra conductor for above :<br>Supply and replacement   | No   | 24     |  |  |
| 5        | Dismantling and erection charges of gantry with 4 beams and 6 columns, including Removal and re-fixing of existing twin fly over bus of line/GT and restraining thereof                         | KG   | 33,755 |  |  |
| 6        | Lightning arrestor over head earth wire - supply and replacement job  | Mtr  | 1,200  |  |  |
| 7        | <b>For existing 72 tones of GI Structure:-</b> supply and coating of Zinc paint of minimum 150 Micron   | KG   | 72,000 |  |  |
| <b>C</b> | <b>Supply and replacement of 220 KV breaker poles:</b>  |      |        |  |  |
| 1        | Supply and replacement work of Complete pole unit assembly W/O housing For, 245KV, 40KA, 1600Amp, 220KV SP-PN Breaker (SF6 Gase Breaker), Type: 200-SFM-40A, Make: CGL Only, Ref.Sr.no: 16199C. | Nos. | 1      |  |  |
|          | <b>Total Quoted price</b>   |      |        |  |  |



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

**IFS Code: ICIC0000024 and UIC GMDC530265584 for Field 7037.**

**Bank Name: ICICI BANK LTD.**

**FORMAT OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT (EMD)**

(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:** Earnest Money 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 TenderNo.\_\_\_\_\_for the work\_\_\_\_\_

( Name of the facilities ) from Earnest Money Deposit (EMD) 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).



- 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.
- 7.** We \_\_\_\_\_ (Name of Bank) further undertake to unconditionally pay the amount claimed by GMDC merely on demand and without demur to the extent aforesaid.
- 8.** We, the said Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of GMDC in writing.



**9.** This Guarantee will not be discharged due to the change in the constitution of the Bank or the said bidder.

**10.** The Bank has under its constitution power to give this guarantee and Mr. \_\_\_\_\_ who has signed it on behalf of the Bank have authority to do so.

Yours faithfully

For.....

(Name of the Bank)

Notwithstanding anything contained hereinabove

- (I) Our liability under this Bank Guarantee shall not exceed **Rs \_\_\_\_\_/- (Rupees \_\_\_\_\_ only)**
- (II) This Bank Guarantee is valid up to \_\_\_\_\_ (Date).
- (III) We are liable to pay the guarantee amount or any part thereof under this bank Guarantee only and only if you serve upon us a written claim or a demand on or before \_\_\_\_\_ (date).
- (IV) This bank guarantee is operative only when accompanied with SFMS advice from us.

Yours faithfully

For \_\_\_\_\_(Name of the Bank)

**Yours faithfully**

**For.....**  
**(Name of the Bank)**



---

**Gantry Drawings for reference**

### A. MATERIAL SPECIFICATION.

1. ALL STRUCTURAL STEEL ARE OF MILD STEEL AND SHALL CONFORM TO IS:2062 -1992 (GRADE'A'-STANDARD QUALITY) AND FABRICATION SHALL CONFORM TO IS:802(PART-II)-1978.
2. ALL BOLTS AND NUTS ARE OF HEXAGONAL TYPE AND SHALL CONFORM TO IS:6639 -1972 IS:1367(PART-II)-1979,IS:1367(PART-III)-1991 AND IS:1367(PART-VI)-1994 (PROPERTY CLASS 5.6)
3. ALL PLAIN WASHERS SHALL CONFORM TO IS:2016-1967.
4. ALL SPRING WASHERS SHALL CONFORM TO IS:3063-1994.
5. ALL FOUNDATION BOLTS SHALL BE OF MILD STEEL (PROPERTY CLASS 4.6) AND CONFORMING TO IS:5624-1993 & MATERIAL GRADE SHALL BE AS PER IS: 2062 (GRADE-A)
6. ALL STEP BOLTS ARE OF MILD STEEL AND SHALL CONFORM TO IS:10238-1982.
7. ALL STEEL SETIONS SHALL BE IN ACCORDANCE WITH IS: 808-1989
8. ALL STEEL PIPES SHALL CONFORM TO IS:806-1988 AND IS:1161-1979 AND SHALL BE OF GRADE Yst22 (Yst210)
9. MIN. THICKNESS OF MEMBERS FOR LATTICE STRUCTURES SHALL BE AS FOLLOWS :  
 MAIN LEG MEMBERS = 6mm.  
 BRACING/SECONDARY/REDUNDANT MEMBERS = 5mm.  
 GUSSET PLATES = 6mm.
10. MIN. DIAMETER OF FASTENING BOLT SHALL BE 16mm FOR GIRDERS, TOWERS, ISOLATOR STRUCTURES AND SHALL BE 12MM FOR OTHER EQUIPMENT SUPPORT STRUCTURES.

### B. GALVANIZATION.

1. ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AS PER IS:4759 -1984 WITH A MIN. COATING THICKNESS OF 150 MICRONS ( 1045 g/Sq.m.)
2. ALL BOLTS,NUTS AND WASHERS SHALL BE HOT DIP GALVANISED AS PER IS:1367 (PART-XIII)-1983 WITH A MIN COATING THICKNESS OF 86 MICRONS ( 610 g/Sq.m.)
3. ALL SPRING WASHERS SHALL BE ELECTRO GALVANIZED AS PER IS:1573-1986. (SERVICE GRADE-3)
4. ALL FOUNDATION BOLTS SHALL BE HOT DIP GALVANIZED AS PER IS:5624-1993 WITH A MIN. COATING THICKNESS OF 610 g/Sq.m TO THE MIN. DEPTH AS INDICATED IN THE FOUNDATION BOLT DRAWING.

### C. FABRICATION AND OTHERS.

1. ALL HOLES SHALL BE 1.5mm GREATER THAN DIA. OF BOLTS UNLESS OTHERWISE SPECIFIED.
2. MIN. SHEAR AND ROLLED EDGE DISTANCES THICKNESS OF SPRING WASHERS & PITCH SHALL BE AS FOLLOWS: (IN LINE WITH IS: 802 PART-II 1978)

| DIA OF BOLT (mm) | MIN. SHEAR EDGE DISTANCE (mm) | MIN. ROLLED EDGE DISTANCE (mm) | MIN. THICKNESS OF SPRING WASHERS (mm) | PITCH MIN. (mm) |
|------------------|-------------------------------|--------------------------------|---------------------------------------|-----------------|
| 16               | 23                            | 20                             | 3.5                                   | 40              |
| 12               | 20                            | 15                             | 2.5                                   | 32              |

3. BRACING ANGLES SHALL BE SUITABLY CHAMFERED WHEREVER NECESSARY.
4. HEEL OF ALL SPLICE ANGLES TO BE GROUNDED TO SUIT THE FILLET OF THE MAIN MEMBER
5. ALL MEMBERS SHALL BE PROPERLY MARKED FOR ERECTION PURPOSE.
6. ONE NO. SPRING WASHER SHALL BE PROVIDED UNDER EACH BOLT.

### D. GENERAL NOTATION USED IN FABRICATION DRAWINGS.

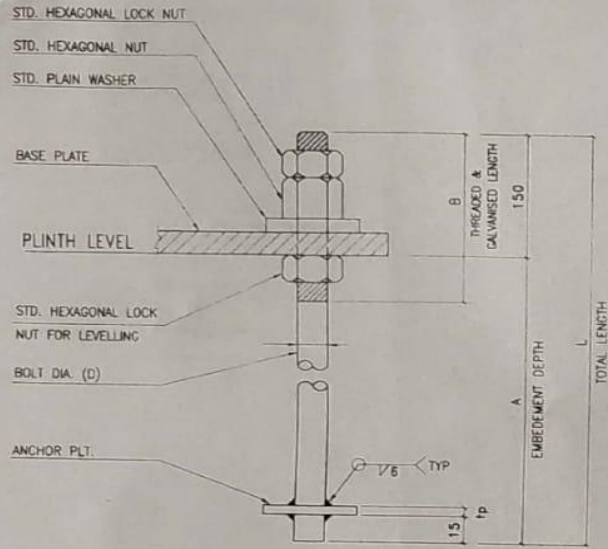
1. (1) (1X) DENOTE ERECTION MARK NUMBERS
2. 1-40 INDICATES ONE NO. BOLT OF LENGTH 40MM.
3. 1-SW INDICATES ONE NO. WASHER 5MM THICK.
4. F.C. DENOTES FLANGE CUT

(1)

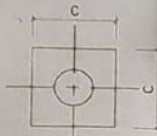
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*Shankar*  
*14/8/02*

*Sub/50 dt 19/7/02*

|   |                         |   |              |
|---|-------------------------|---|--------------|
| REV. NO - APPROVED IN CODE 'A' BY M/S DESEIN VIDE LTA. NO. 210/VC-2215/2034. DT 08.07.02. |                         | RELEASED FOR CONSTRUCTION                       |              |
| RD. FT. FIRST ISSUE   | IS                      | PS  | SA           |
| Rev. No.  | Description             | Prepared  | Controlled   |
| rev. no.  | Description of revision | prepared  | checked      |
|   |                         | checked   | approved     |
|   |                         | checked   | date         |
| 220kV SWITCHYARD FOR AKRIMOTA THERMAL POWER STATION STAGE-I, UNITS # 1 & 2 (2 x 125 MW)   |                         |   |              |
| OWNER   |                         | GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED |              |
| CONSULTANT  |                         | DESEIN PRIVATE LIMITED CONSULTING ENGINEERS     |              |
| Contract no.  | Emitted by              | Doc. type                                       | Form size    |
|   |                         | A3  | -            |
|   |                         | Scale   | Derived from |
|   |                         |   | RO           |
| Title   |                         | GENERAL NOTES FOR SWITCHYARD STEEL STRUCTURES   |              |
| Identification/Document no.   |                         | CG/134/102                                      | 1 of 1       |



FOUNDATION BOLT



ANCHOR PLATE



STD. WASHER

DIMENSIONS FOR WASHER AND ANCHOR PLATE

| D<br>mm | ANCHOR PLATE |         | PLAIN WASHER |          |
|---------|--------------|---------|--------------|----------|
|         | tp<br>mm     | C<br>mm | E<br>mm      | tw<br>mm |
| 32      | 8            | 75      | 60           | 5        |
| 40      | 10           | 100     | 75           | 6        |
| 56      | 10           | 100     | 105          | 9        |

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. FOR GENERAL NOTES FOR STEEL STRUCTURES REFER DRG. No. CG/134/102
3. FOUNDATION BOLTS SHALL BE OF MILD STEEL (PROPERTY CLASS 4.6) CONFORMING TO IS 5624 & MATERIAL SHALL BE AS PER IS 2062 (GRADE-A)
4. FOUNDATION BOLTS SHALL BE GALVANISED FOR THE LENGTH AS INDICATED (MIN.) WITH MIN. COATING THICKNESS OF 87 MICRONS (810 gm<sup>2</sup>)
5. THE ANCHOR PLATE SHALL BE WELDED TO THE BOTTOM OF FON BOLT AS SHOWN WITH 6mm THK CONTINUOUS FILLET WELD.
6. PLAIN WASHER SHALL CONFORM TO IS 2016
7. HEXAGONAL NUTS SHALL CONFORM TO IS 1367/1363/6639

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from  
19/1/02*

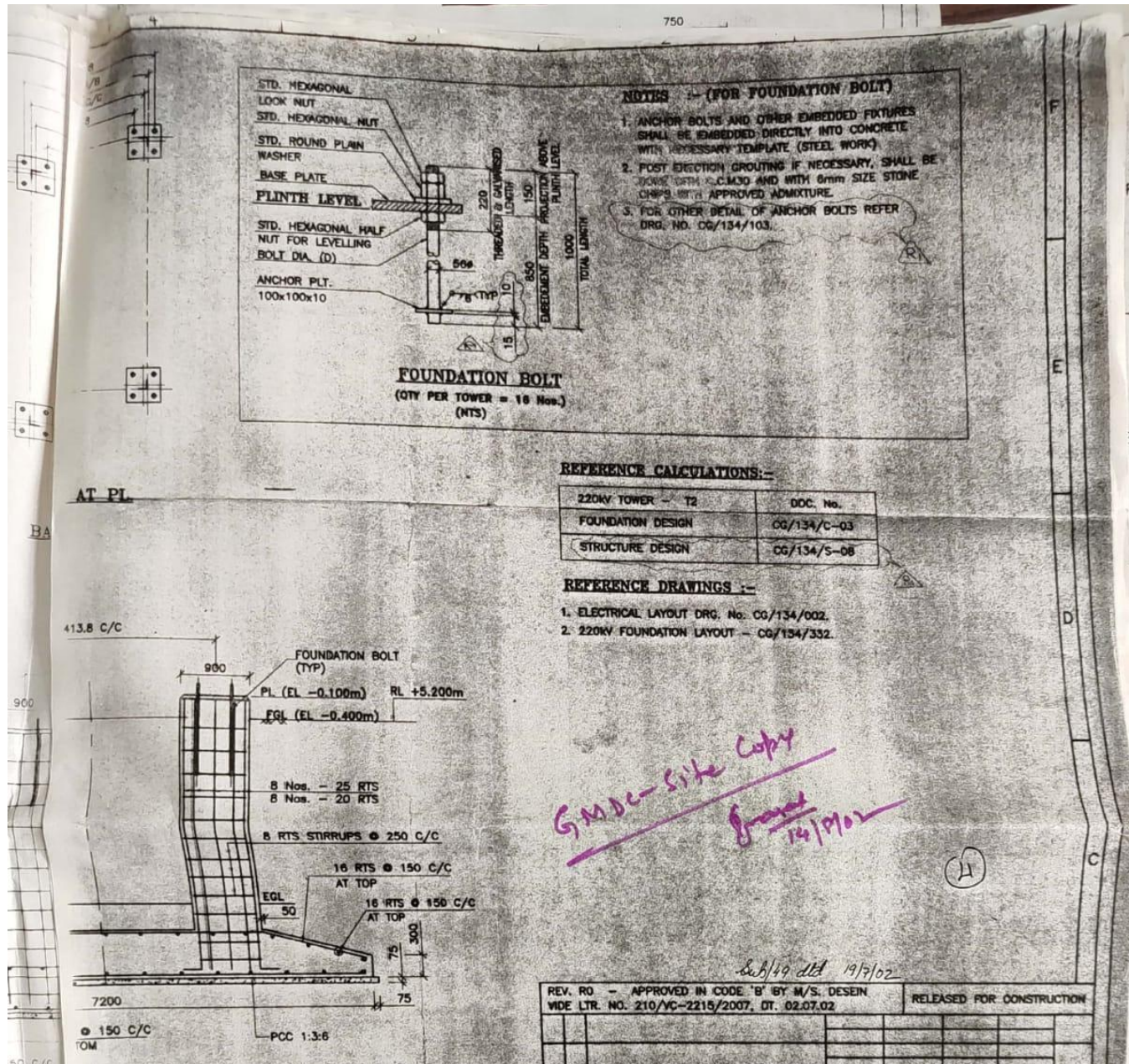
| SL.NO. | STRUCTURE TYPE | No. OF TOWERS | QTY. PER TOWER | TOTAL QTY. OF BOLTS | DIA. OF BOLT (D) | FOUNDATION BOLT DETAILS |        |        |   |
|--------|----------------|---------------|----------------|---------------------|------------------|-------------------------|--------|--------|---|
|        |                |               |                |                     |                  | L (mm)                  | A (mm) | B (mm) | APPROX. Wt PER BOLT (INCL. NUTS&WASHER) |
| 1      | T1             | 7             | 4x4=16         | 112                 | 40               | 950                     | 800    | 200    | 11.569                                  |
| 2      | T2             | 3             | 4x4=16         | 48                  | 56               | 1000                    | 850    | 220    | 24.152                                  |
| 3      | T3             | 3             | 4x4=16         | 48                  | 40               | 1150                    | 1000   | 200    | 13.541                                  |
| 4      | T4             | 3             | 4x4=16         | 48                  | 32               | 850                     | 700    | 200    | 6.545                                   |
| 5      | T5             | 3             | 4x4=16         | 48                  | 56               | 1100                    | 950    | 220    | 26.085                                  |
| 6      | LT             | 4             |                |                     |                  |                         |        |        |   |

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*Sub/50 dt 19/7/02*

|  |                         |   |                    |
|--|-------------------------|---|--------------------|
| REV. RO - APPROVED IN CODE 'A' BY M/S DESEIN   |                         | RELEASED FOR CONSTRUCTION                       |                    |
| VIDE LTR NO 210/VG-2215/2034, DT 08.07.02.   |                         |   |                    |
| RO   | F1                      | FIRST ISSUE                                     | 19.06.02           |
| Rev. Sc. rev. Sc.  | Description of revision |   | Date               |
|  | JS                      | PS  | DA                 |
|  | Preparato prepared      | Controllato checked                             | Verificato checked |
| <p align="center"><b>220kV SWITCHYARD FOR AKRIMOTA THERMAL POWER STATION</b><br/>STAGE-I, UNITS # 1 &amp; 2 (2 x 125 MW)</p> |                         |   |                    |
| OWNER  |                         | GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED |                    |
| CONSULTANT   |                         | DESEIN PRIVATE LIMITED CONSULTING ENGINEERS     |                    |
| Commeaso job no.   | Emittente issued by     | Tipo doc. size                                  | Form. scale        |
|  |                         | A3  | NTS                |
| TITOLO   |                         | Derivato da                                     | Revis. Re          |
| DETAIL OF FOUNDATION BOLTS FOR SWITCHYARD TOWERS   |                         | derived from                                    |                    |
| GG Crompton Greaves ENGINEERING PROJECTS DIVISION - CHENNAI  |                         | Foglio sheet 1                                  |                    |
| Identificativo/documento no  |                         | CG/134/103                                      |                    |





REFERENCE CALCULATIONS:-

|                   |             |
|-------------------|-------------|
| 220KV TOWER - T2  | DOC. No.    |
| FOUNDATION DESIGN | CG/134/C-03 |
| STRUCTURE DESIGN  | CG/134/S-08 |

REFERENCE DRAWINGS :-

- ELECTRICAL LAYOUT DRG. No. CG/134/002.
- 220KV FOUNDATION LAYOUT - CG/134/332.

*GMDC-site copy*  
*Approved*  
*14/1/02*

*Sub/19 dtd 19/7/02*

REV. RO - APPROVED IN CODE 'B' BY M/S. DESEIN  
WIDE LTR. NO. 210/YC-2215/2007, DT. 02.07.02  
RELEASED FOR CONSTRUCTION

|          |          |                |       |                |  |
|----------|----------|----------------|-------|----------------|--|
| REVISION | DATE     | BY             | CHKD  | APPD           | REASON   |
| R1 F2    | 12/07/02 | P. H. Bhandari | P. S. | D. S. Bhandari | REVISED AS PER M/S DESEIN COMMENTS VIDE LTR. NO. 2007 DT. 02/07/02 |
| R0 F1    | 17/06/02 | P. H. Bhandari | P. S. | D. S. Bhandari | FIRST ISSUE  |

**Annexure "C"**

| Item No. | Details  | No. | Length | Width | Depth | Weight (kg) | Quantity | Unit |
|----------|--|-----|--------|-------|-------|-------------|----------|------|
| 1        | Providing and injecting the fixed packers with a two component, low viscosity, epoxy resin based injection grout under pressure of 5-6 kg/cm <sup>2</sup> including cutting/removal of nozzles/nipples as necessary after completion of grouting as per technical specification inclusive of all labour, scaffolding, materials, equipment etc. at all levels. Complete as per instruction of engineer in charge. The product to be used for injection shall have the following minimum key performance properties, viscosity:160-270 CPS -Bond strength (ASTM (882 C 882)(2days and 14 days):>7 Mpa and 10Mpa - Water absorption, 24 hr ASTM D570: <1%- Compressive strength, ASTM D 695 (7days):>90Mpa-Tensile Strength, ASTM D638, 7dAYS):>50mPA - Elongation at Break, ASTM D 638, 7 Days: >1% (Payment will be on actual consumption basis) for Gantry foundation.              |     |        |       |       | 70          | 70       | KG   |
| 2        | Providing and fixing standard PVC injection packers at all levels of minimum 10mm dia including after drilling holes of required diameter at a spacing of maximum 300 to 500 mm c/c, sealing the packers using epoxy putty, removal of packers after grouting, including of manpower, equipment, scaffolding etc. Also includes chipping, cutting and sealing at 10.00 M and above height for Gantry structure.  | 200 |        |       |       |             | 200      | nos. |
| 3        | Rebuilding and jacketing the column by providing , laying and compacting free flow M40 Grade of microconcrete Polygrout or equivalent matching with the specification with approval with addition of 25% by weight 10mm down size crushed aggregate and bipolar corrosion inhibitor epco kp 200 or equivalent at 6 kg/m <sup>3</sup> as per the actual drawings including scaffolding, formwork, labour and equipment etc. all height. Curing must be done by use of hessian maintained in a damp condition minimum for 7 days for Gantry Column. Dismantal of existing RCC not allowed by impact like hammer/mannual/labor etc. During removal of existing structure from the base, must be take care for removal of structure and not move/displacement of any foundatin bolt from its position and for the same the all liability and responsibilitity is under contractor scope. | 16  | 0.75   | 0.75  | 0.12  |             | 1.08     | cmt  |
| 4        | Same as Above-   | 8   | 0.9    | 0.9   | 0.12  |             | 0.78     | cmt  |



|   |   |   |    |      |      |  |       |    |
|---|---|---|----|------|------|--|-------|----|
| 5 | Supplying and providing 8/10/12 mm dia reinforcement TMT CSR bars (FE 500) conforming to IS : 1786 including initial straightening of coiled/uncoiled bars, removal of loose rust, cutting, bending to correct size & shape, binding with 18 gauge GI wire, welding new reinforcement with existing reinforcement, re-baring by drilling the hole and anchoring using epoxy grouts in standard practice as per site condition and drawings, preparing the surface of new steel reinforcement by sand blasting/shot blasting to have proper bond and applying two coats of anticorrosive coating IPNET RB or equivalent for protection of against active corrosion etc including manpower, tools, tackles, machineries, scaffolding etc. complete. The joint records to be prepared for measurements and payment for Gantry foundation & Column. | 4 | 10 | 0.75 | 0.62 |  | 18.6  | kg |
|   | Same as Above-  | 2 | 12 | 0.9  | 0.62 |  | 13.39 | kg |

**Annexure "D"**

**NAME OF WORK : Supply & installation of Gantry structure in switchyard area at 2x125 MW Akri Mota TPS, village Chher Nani,  
Ta:Lakhapat, Dist:Kutchh.**

**MEASUREMENT SHEET at 220KV Switchyard area**

| Sr No.    | Description  | Angle | Size in mm | Size in mm | Thick mm | Tower No. | No. | No. | No. | L     | Weight/mtr | Total Weight |
|-----------|--|-------|------------|------------|----------|-----------|-----|-----|-----|-------|------------|--------------|
| <b>A</b>  | <b>Location total area of S/W yard - Vertical supporting structure (Level 0 to 24 mtr)</b> |       |            |            |          |           |     |     |     |       |            |              |
| <b>A1</b> | <b>Verticle support pole structure - Total 6 Nos.</b>                                      |       |            |            |          |           |     |     |     |       |            |              |
|           | Vertical main supoort  | ISA   | 150        | 150        | 18       | 2         |     | 4   | 1   | 24.00 | 40.100     | 7699.00      |
|           | Vertical main supoort  | ISA   | 130        | 130        | 12       | 4         |     | 4   | 1   | 24.00 | 23.500     | 9024.00      |
|           | Cross blessing   | ISA   | 50         | 50         | 6        | 6         |     | 2   | 2   | 3.51  | 4.500      | 379.00       |
|           | Cross blessing   | ISA   | 50         | 50         | 6        | 6         |     | 2   | 2   | 3.46  | 4.500      | 374.00       |
|           | Cross blessing   | ISA   | 50         | 50         | 6        | 6         |     | 2   | 2   | 3.37  | 4.500      | 364.00       |
|           | Cross blessing   | ISA   | 50         | 50         | 6        | 6         |     | 2   | 2   | 3.18  | 4.500      | 343.00       |
|           | Cross blessing   | ISA   | 50         | 50         | 6        | 6         |     | 2   | 2   | 3.11  | 4.500      | 336.00       |
|           | Cross blessing   | ISA   | 45         | 45         | 6        | 6         |     | 2   | 2   | 2.83  | 4.000      | 272.00       |
|           | Cross blessing   | ISA   | 45         | 45         | 6        | 6         |     | 2   | 2   | 2.61  | 4.000      | 251.00       |
|           | Cross blessing   | ISA   | 45         | 45         | 6        | 6         |     | 2   | 2   | 2.56  | 4.000      | 246.00       |
|           | Hori blessing  | ISA   | 45         | 45         | 6        | 6         |     | 1   | 2   | 2.45  | 4.000      | 118.00       |
|           | Hori blessing  | ISA   | 45         | 45         | 6        | 6         |     | 1   | 2   | 2.34  | 4.000      | 112.00       |
|           | Hori blessing  | ISA   | 45         | 45         | 6        | 6         |     | 1   | 2   | 2.24  | 4.000      | 108.00       |
|           | Hori blessing  | ISA   | 45         | 45         | 6        | 6         |     | 1   | 2   | 2.13  | 4.000      | 102.00       |
|           | Hori blessing  | ISA   | 45         | 45         | 6        | 6         |     | 1   | 2   | 2.04  | 4.000      | 98.00        |
|           | Hori blessing  | ISA   | 45         | 45         | 6        | 6         |     | 1   | 2   | 1.94  | 4.000      | 93.00        |
|           | Cross blessing   | ISA   | 65         | 65         | 6        | 6         |     | 2   | 2   | 4.22  | 5.800      | 587.00       |
|           | Cross blessing   | ISA   | 65         | 65         | 6        | 6         |     | 2   | 2   | 4.08  | 5.800      | 568.00       |



|           |  |     |                 |    |          |                |    |          |   |                 |                   |          |
|-----------|--|-----|-----------------|----|----------|----------------|----|----------|---|-----------------|-------------------|----------|
|           | Cross blessing                               | ISA | 65              | 65 | 6        | 6              |    | 2        | 2 | 3.90            | 5.800             | 543.00   |
|           | Cross blessing                               | ISA | 50              | 50 | 6        | 6              |    | 2        | 2 | 3.64            | 4.500             | 393.00   |
|           | Cross blessing                               | ISA | 50              | 50 | 6        | 6              |    | 2        | 2 | 3.49            | 4.500             | 377.00   |
|           | Cross blessing                               | ISA | 45              | 45 | 6        | 6              |    | 2        | 2 | 3.15            | 4.000             | 302.00   |
|           | Cross blessing                               | ISA | 45              | 45 | 6        | 6              |    | 2        | 2 | 2.88            | 4.000             | 276.00   |
|           | Cross blessing                               | ISA | 45              | 45 | 6        | 6              |    | 2        | 2 | 2.77            | 4.000             | 266.00   |
|           | Hori blessing                                | ISA | 45              | 45 | 6        | 6              |    | 1        | 2 | 3.40            | 4.000             | 163.00   |
|           | Hori blessing                                | ISA | 45              | 45 | 6        | 6              |    | 1        | 2 | 3.19            | 4.000             | 153.00   |
|           | Hori blessing                                | ISA | 45              | 45 | 6        | 6              |    | 1        | 2 | 2.97            | 4.000             | 143.00   |
|           | Hori blessing                                | ISA | 45              | 45 | 6        | 6              |    | 1        | 2 | 2.77            | 4.000             | 133.00   |
|           | Hori blessing                                | ISA | 45              | 45 | 6        | 6              |    | 1        | 2 | 2.58            | 4.000             | 124.00   |
|           | Hori blessing                                | ISA | 45              | 45 | 6        | 6              |    | 1        | 2 | 2.39            | 4.000             | 115.00   |
|           | Top triange hori                             | ISA | 45              | 45 | 6        | 6              |    | 2        | 2 | 1.15            | 4.000             | 110.00   |
|           | Top triange hori                             | ISA | 45              | 45 | 6        | 6              |    | 2        | 2 | 0.80            | 4.000             | 77.00    |
|           | Top triange hori                             | ISA | 45              | 45 | 6        | 6              |    | 2        | 2 | 0.50            | 4.000             | 48.00    |
|           |  |     |                 |    |          |                |    |          |   |                 |                   | 24297.00 |
| <b>A2</b> | <b>Horizontal gantry structure ( 4 Nos.)</b> |     |                 |    |          |                |    |          |   |                 |                   |          |
|           | Hori main supoort                            | ISA | 75              | 75 | 10       | 4              | 4  | 1        | 1 | 16.7            | 11                | 2939.00  |
|           | Verti support                                | ISA | 75              | 75 | 10       | 4              | 6  | 2        | 1 | 1.2             | 11                | 634.00   |
|           | Hori support                                 | ISA | 75              | 75 | 10       | 4              | 8  | 1        | 1 | 1.5             | 11                | 528.00   |
|           | Verti support                                | ISA | 50              | 50 | 6        | 4              | 9  | 2        | 1 | 1.2             | 4.5               | 389.00   |
|           | Verti cross support                          | ISA | 50              | 50 | 6        | 4              | 13 | 2        | 1 | 1.6             | 4.5               | 749.00   |
|           | Hori bottom top cross                        | ISA | 50              | 50 | 6        | 4              | 13 | 2        | 2 | 2.05            | 4.5               | 1919.00  |
|           |  |     |                 |    |          |                |    |          |   |                 |                   | 7158.00  |
|           |  |     |                 |    |          |                |    |          |   |                 |                   |          |
|           | <b>Total gantry weight</b>                   |     | <b>24297.00</b> |    | <b>+</b> | <b>7158.00</b> |    | <b>=</b> |   | <b>31455.00</b> | <b>Metric ton</b> |          |