



Gujarat Mineral Development Corporation Limited

Request for Proposal

For

Detailed Energy Audit of

GMDC's Mines Project & Corporate Office building

RFP Number GMDC/CO/ 33/21-22

**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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E-mail: power@gmdcltd.com , jndave@gmdcltd.co.in, Website: www.gmdcltd.com

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RFP NOTICE

RFP Number GMDC/CO/33/21-22

Brief Description of work	<p>Hiring of Energy Auditing Bidder (accredited by Bureau of Energy Efficiency (BEE)) for conducting Energy Audit of GMDC's various Mines Project & Corporate Office building</p> <p>The scope of works includes the energy audit of the GMDC's various Lignite & Metal mines and Corporate Office building power supply system and equipment installed shall be carried out and detailed report with assessment of the techno-economic feasibility of the energy conservation measures to be submitted to GMDC Ltd.</p>
Period of contract	3 Month
Estimated Contract Value	Rs.34 Lakhs
Availability of RFP	<p>RFP shall be floated on the GMDC website (www.gmdcltd.com) and nprocure portal (https://gmdc.nprocure.com).</p> <p>Bids shall be required to be submitted online on the nprocure portal (https://gmdc.nprocure.com).</p>
EMD (Earnest Money Deposit)	<p>Rs.1,02,000/-(Rupees One Lakh Two Thousand only) in any one of following form</p> <ul style="list-style-type: none">➤ DD in favor of GMDC Ltd. Payable at Ahmadabad.➤ 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.➤ 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.➤ 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-C) ICICI Bank, Ahmedabad Branch, Ahmedabad Account Number: 002405019379 IFSC: ICIC0000024 <p><i>Relaxation in terms of submission of EMD shall be given to the Bidder who is holding valid Certificate issued under the MSME Act, 2006 on the date of submission of RFP.</i></p>



RFP Processing Fee	<p>Rs. 2,500/- (Two Thousand Five Hundred only) plus GST @ 18% aggregating to Rs. 2,950/- payable by Demand Draft/ Pay Order drawn in favor of “GMDC Ltd.” Payable at Ahmedabad.</p> <p><i>Relaxation in terms of submission of RFP 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 RFP.</i></p>
Commencement of RFP	From - 10 th February 2022
Last date of submission of bid through online	3 rd March 2022 up to 18:00 hrs
Last date of submission of physical documents i.e. EMD, RFP processing Fee etc.	3 rd March 2022 up to 18:00 hrs at Corporate Office, GMDC, Ahmedabad
Date for online opening of preliminary bid.	3 rd March 2022 at 18:30 hrs
General and Important Terms and Conditions	<ol style="list-style-type: none">1. GMDC reserves absolute right/discretion to accept and/or reject any or all the RFPs received or invite fresh bid at any stage or split the work between more than one Bidder as the case may be.2. The Bidders are required to quote the rate strictly as per the terms and conditions mentioned in the RFP document. Conditional RFP shall not be entertained and will be rejected summarily without assigning any reasons, whatsoever.3. GMDC may issue amendments/corrigendum in the RFP documents, schedule, forms etc. at any time during the period between publication of notice and submission of bids of the RFP on website. The Bidders in their own interest area devised to visit the website regularly till the last date of submission of the bid. No separate newspaper advertisement will be released for amendments/corrigendum.4. GMDC reserves the rights to modify or alter any Condition of the RFP.5. The Bidders are advised to submit their price bid online on https://www.gmdc.nprocure.comonly. Physical price bid shall not be accepted and shall be rejected summarily without assigning any reasons, whatsoever.6. Failure to submit bid online in stipulated time due to any reason whatsoever by any Bidder shall result in disqualification of bid. In



	<p>such circumstances, bid submitted physically along with supporting documents, RFP 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 reserve the right to take suitable decision in this regard.</p>
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1. Purpose of the Document

1.1 The Request For Proposal Document (this document) floated by GMDC (Gujarat Mineral Development Corporation Limited), A Government of Gujarat Enterprise is to hire accredited by Bureau of Energy Efficiency (BEE) Energy Auditing Bidder for conducting Energy Audit of GMDC's various Project of Lignite & Metal Mines & Corporate Office building.

1.2 The objective of energy audit is to have energy performance Assessment of equipments and utilities in the electrical sub-station, Electrical power distribution, HVAC system, Electric motors and drives, fans and blowers, Water pumping system, UPS system, Lighting system, Diesel generators sets, Machineries/Vehicle etc. including study energy consumptions pattern and management of power demand in the building/Mines.

1.3 An Energy audit serves the purpose of identifying energy usage within a facility, process or equipment and identifies the opportunities for conservation, called energy conservation measures.

1.4 Based on the above observation, to identify opportunities for energy saving and to have recommendation for the same along with cost benefit analysis.

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 Nani Chher 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. General Instructions to Bidder

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

3.1 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.

3.2 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 RFP Document. The bid should be precise, complete and in the prescribed format as per the requirement of the RFP Document. Failure to furnish all information required by the RFP Document or submission of a bid not responsive to the RFP 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.

3.3 Clarification of Bidding Documents

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

3.4 Amendment of RFP Document

At any time before the deadline for submission of bids, GMDC LTD may modify the RFP Document for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFP Document by amending, modifying and/or supplementing the same. Any amendments/modifications in the RFP 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.

3.5 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'RingRoad, University
Ground, Vastrapur, Ahmedabad 380052
EPABX: 079-27913501, 27913200Extn.No:1760
E-mail:power@gmdcltd.com , jndave@gmdcltd.co.in

3.6 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.

3.7 Late Bids

Any bid received by GMDC LTD., after the deadline for submission of bids prescribed by GMDCLTD. 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.

3.8 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.

3.9 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 there to shall be made in writing. Extension of validity period by the Bidder shall be unconditional.

3.10 Sub Contract

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

3.11 Consortium / Joint Venture

Consortium / Joint Venture are not allowed.

3.12 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.

3.13 Interpretation

That no communication preceding or following the present RFP 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.

3.14 Acceptance of All the Terms and Conditions

The Bidder should submit the declaration regarding unconditional acceptance of all the terms and conditions of the RFP document including Annexure and corrigendum if any as per FORM M provided in the RFP Document.

3.15 Declaration

The Bidder should give a declaration that it has not enclosed any conditional offer as per the format provided in FORM L of the RFP Document.

3.16 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.

3.17 The Successful Bidder shall not change the constitution of the bidder/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.

4. Earnest Money Deposit

A non-interest bearing Earnest Money Deposit of Rs. 1, 02,000/- (Rupees One Lakh Two Thousand only) in any one of following form

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

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 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.

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-C) ICICI Bank, Ahmedabad Branch, Ahmedabad Account Number: 002405019379 IFSC: ICIC0000024

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

5. RFP Processing Fee

The RFP 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. 2500/- plus GST @ 18% (Rs. 900) aggregating Rs 2,950/- (Two Thousand Nine Hundred Fifty only) as mentioned in RFP notice in the sealed technical bid cover. If the amount mentioned in the DD/Pay Order is found short, the RFP will not be considered for scrutiny and will be out rightly rejected.

Relaxation in terms of submission of RFP 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 RFP.

6. Security Deposit

6.1 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.

6.2 The successful Bidder shall submit security deposit of 10% of the total contract value excluding Goods & Service Tax(GST) at within 7 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 12 (Twelve 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 annexure “B” for approved bank). It should be valid for a period of not less 12 (Twelve 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-C) ICICI Bank, Ahmedabad Branch, Ahmedabad Account Number: 002405019379 IFSC: ICIC0000024
- 6.3 It shall be refunded to the Successful Bidder, within a period of six months after satisfactory completion of the work and fulfillment of all the terms and conditions of the contract.
- 6.4 The SD deposited by the Successful Bidder may be forfeited if the successful Bidder fails to commence of the work within 10days of acceptance of Letter of Intent.
- 6.5 Security deposit shall not bear any interest under any circumstances. Security Deposit is a measure of liquidated Damages sustained by GMDC.
- 6.6 GMDC will reserve the right to recover the charges or the liquidated damages from the Security Deposit in the following circumstances-
- 6.6.1** If the successful Bidder or its employees causes any damage or destroy any property belonging to GMDC.
 - 6.6.2** 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.
 - 6.6.3** Any other dues on account of statutory compliance.

7. Procedure for Submission of the Bid

- 7.1 Offers prepared in accordance with the procedures enumerated below.
- 7.2 Bid should be submitted online at www.nprocure.com on or before the last date and time as prescribed in this RFP.
- 7.3 The Bidder should submit their bids in THREE parts, these are
- 7.3.1** Pre qualification bid (Details of EMD and RFP Processing Fee),
 - 7.3.2** Eligibility and Technical Bid
 - 7.3.3** Price Bid.
- 7.4 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.
- 7.5 Bidders are advised to follow the 'Instructions for Bids Submission' given in annexure "A" for e-submission of the bids online through n-procure.
- 7.6 Documents should be submitted as per check list given in form "A" through 'off-line' in the sealed cover super-scribed as "Technical Bid for RFP Number GMDC/CO/33/21-22 and Name of work:

“Hiring of Energy Audit Bidder to conduct energy audit of GMDC Mines Project & Corporate Office Building.”. Bids must be submitted as per the schedule (date & time) indicated in RFP notice.

8. Eligibility and Qualification Criteria of Bidder

- The agencies/Lead Consortium agencies interested in being considered for this task must fulfill the following criteria:
- The Bidder Should be agency /Firm/Company registered /incorporated in India .Necessary documents should be provided to substantiate the claim.
- The bidder should have at least 2 BEE Accredited Energy Auditors and 4 BEE Certified Auditors as on the date of applying. A photocopy of the certificates of BEE Certified Energy Auditors should be enclosed as proof.
- The Bidder should have experience of carrying out Detailed Energy Audit (DEA) of power system and installed equipments of Industries, of Electrical Distribution Sub Station and office buildings and / or prepared a detailed study report for energy conservation option of various sources like Electricity and Fuel oil in the campuses and recommend action for reducing the same. Experience of carrying out Energy Audit for Mining installation & Substations is desirable. Necessary documents should be provided to substantiate the claim

8.1 Human Resource

The Bidders as on date of Bid submission, must have adequate qualified and experience personnel in their team. Following Key Personal CV should include as part of Bid evaluation process

Sr. No.	Designation/Role	Minimum Basic Qualification	Area of Expertise/past experience
1	Team Leader	BE in Mechanical / Electrical /Mining or standard Engineering Discipline from reputed University and BEE Accredited Energy Auditor	Min 15 years+ experience in engineering/relevant industries and minimum 10 years experience in Energy Auditing sector.
2	Team Member	BE in Mechanical / Electrical or others Engineering Discipline from reputed University and BEE Accredited Energy Auditor	Min 7 years+ experience in engineering/relevant industries and minimum 7 years experience in Energy Auditing sector.

3	Team Supporter staff	BE/Diploma in Mechanical / Electrical or others Engineering Discipline from reputed University and BEE Accredited Energy Auditor	Min 3-5 years of Experience in Energy Auditing sector.
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8.2 .1 Experience

The Consultants should have following minimum experience of having successfully completed similar works during last 7 (seven) years ending on last day of Dec- 2021 (i.e. period from 01.01.2014 to 31.12.2021)

A. Three similar completed works each having amount of Rs 13,60,000/- (Thirteen Lakhs sixty Thousand Only) during last 7 (seven) years.

OR

B. Two similar completed works each having amount of Rs 17, 00,000/- (Seventeen Lakhs Only) or more during last 7 (seven) years.

OR

C. One similar completed work having amount of Rs 27,20,000/- (Twenty seven Lakhs Twenty Thousand only) or more during last 7 (seven) years.

Similar works means the Consultants should have experience having carried out energy audit of mines and industries under the single LOI/Work

8.2.2 Financial

- Bidder must have average positive Net Worth for last for financial year of 2018-19, 2019-20 and 2020- 21
- Bidder must have a Minimum Average Turnover of Rs 10, 20,000/- (Rupees Ten Lakhs Twenty 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 RFP Document.

8.3 Blacklisting of the Bidder

The Bidder or its directors have not been black listed by any Government Organization; The Bidder will submit a declaration to this effect as per the format provided in FORM PD of the RFP 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 forth with without payment of any compensation and the EMD/SD will be forfeited.

9. Scope of Work

- 9.1** The scope of works includes to do complete and independent exercise of Energy Audit in all GMDC Lignite & Metal mines projects and Corporate Office building power supply system, utilities and equipments installed shall be carried out and detailed report with the assessment of the techno-economic feasibility of the energy conservation measures to be submitted to GMDC Ltd.
- 9.2** The objective of energy audit is to have energy performance Assessment of equipments, utilities, Electrical sub-station, Electrical power distribution, HVAC system, Electric motors and drives, fans and blowers, Water pumping system, UPS system, Lighting system, Diesel generators sets etc. including study energy consumptions pattern and management of power demand in the building.
- 9.3** Based on the above observation, to identify opportunities for energy saving and to have recommendation for the same along with cost benefit analysis.
- 9.4** Establish a baseline of energy consumption and identify major causes of low operating efficiency and recommended improvements / better operating practices.
- 9.5** Provide a detailed estimate of the costs associated with the implementation of each of the proposed energy conservation measure (ECM)
- 9.6** Proposed a Monitoring and Verification protocol to measure and quantify the savings incurred.
- 9.7** All the equipments/instruments required for site measurements for carrying out the energy audit will have to be arranged by the bidder without any extra payment to the GMDC Ltd.
- 9.8** All testing instruments/meters shall be accompanied with valid calibration certificate.
- 9.9** The site measurements should be recorded in the presence of GMDC's personnel.
- 9.10** The GMDC will not provide any kind of assistance in the form of men/material and the bidder will have to make their own arrangement for all assistance.
- 9.11** Site visit: Successful Bidder shall visit the all above sides before submitting the DPR. GMDC will not pay for lodging, boarding or made any expenses made during these visits.
- 9.12** Review of Electricity Bills, Contract Demand and Power Factor: For the last one year, in which possibility will be explored for further reduction of contract demand and improvement of power factor.
- 9.13** Following are the indicative list of system for performance evaluation, but not limited to. Annexure-1 for equipments list is attached.
- 9.13.1** Electrical System Network: Which would include detailed study of all the Transformer operations of various Ratings / Capacities, their operational pattern, Loading, No Load Losses, Power Factor Measurement on the Main Power Distribution Boards and scope for improvement if any? The study would also cover possible improvements in energy metering systems for better control and monitoring.

9.13.2 Qualitative and quantitative study of all components of energy payables i.e. KW, kWh, kVAr, Maximum Demand Factor and harmonics etc

9.13.3 Study of system network, ratings/capacities, operational pattern and energy metering system

9.13.4 Study voltage profiles up to 11 kV lines, variations in the system voltage and optimum voltage for utilization with highest energy efficiency, energy flow study.

9.13.5 To identify and quantify the energy loss that occurs in different parts (subparts/equipment) of utilities power supply system.

9.13.6 To suggest various methods of saving energy by improving network layout, installing energy efficient devices/equipment and optimizing capacities of the equipment.

9.13.7 Electrical Distribution System: a. Review of present electrical distribution like Single Line Diagram (SLD), transformer loading, cable loading, normal & emergency loads, electricity distribution in various areas / floors etc. and assessment of maximum load of venues viz-a-viz capacity of substations feeding the venues. b. Study of Reactive Power Management and option for power factor improvement. c. Study of power quality issues like Harmonics, current unbalance, voltage unbalance etc. d. exploring the Energy Conservation Options (ENCON) in electrical distribution system.

9.13.8 Lighting System: a. Review of present office lighting system, Mine area lighting and street lighting system etc. b. Estimation of lighting load at various locations like different floors, outside (campus) light, pump house and other important locations. c. Detail lux level survey at various locations and comparison with acceptable standards. d. Study of present lighting control system and recommend for improvement. e. Analysis of lighting performance indices like Lux/m², lux/watt, lux/watt/m² and its comparison with norms. f. Exploring the Energy Conservation Options (ENCON) in lighting system.

9.13.9 Air-Conditioning System: (HVAC system) Review of present HVAC system like central AC, window AC, split AC, Water Coolers, and Air Heaters etc. Performance assessment of window AC, Split AC system. Analysis of HVAC Performance like estimation of Energy Efficiency Ratio (EER i.e. KW/TR), Specific Energy Consumption (SEC) of system and comparison of the operating data with the design data. Exploring the Energy Conservation Options (ENCON) in HVAC system.

9.13.10 Diesel Generator (DG) Sets: a. Review of DG set Operation, Performance Assessment of DG sets in terms of Specific Fuel Consumption (SFC i.e. KWH/Litter), Power generated, Voltage, Ampere, KW, KWh, KVA should be recorded during the audit and Exploring the Energy Conservation Options (ENCON) in DG Sets.

9.13.11 Water Pumping System: Review of water pumping, storage and distribution systems. Performance assessment of all major water pumps i.e. power consumption vs. flow delivered, estimation of pump efficiency etc. Exploring the Energy Conservation Options (ENCON) in Water Pumping System. Quantify the extent of energy savings / performance improvement that can be achieved by upgrading and/or replacing the existing pumping system with the best efficiency pump sets available in the market based on the analysis of the measurements.

9.13.12 Motor Load Survey: Conducting the motor load survey of all drives to estimate the % loading, exploring the ENCON options in electric drive system.

9.13.13 Energy Monitoring & Accounting System: Detail review of present energy monitoring & accounting system in terms of metering, record keeping, data logging, periodic performance analysis etc. Recommend for effective energy monitoring & accounting system.

9.13.14 UPS: Measurement and analysis UPS loading, redundancy, operating efficiency, load pattern to suggest measures for energy cost reduction, Measurement and analysis of Harmonics as per standards.

9.13.15 Air Handling Units 1. Measurement of airflow, Relative Humidity(RH), Supply air temperature (T_{sa}), Return air temperature (T_{ra}), Chilled Water Inlet and outlet temperature i.e. T_{in}, T_{out} through cooling coil and energy consumption of Air Handling Units (AHUs). 2. Examination of Air Handling Units for air delivery capacity, capacity utilization, temperature pattern, pressure drop and operational pattern with respect to time to identify potential energy saving measures. 3. Calculation of actual tonnage of AHUs and Measurement of operating zone temperatures under each unit. Comparison of actual parameters with the design values.

10. GMDC's various project Locations where desired energy auditing shall be carried out:

1. GMDC Lignite Project, Mata No Madh, Taluka: Lakhpat, DistKutch
2. GMDC Lignite Project, Umarsar, Taluka : Lakhpat, DistKutch
3. GMDC Bauxite Project, Gadhsisa, Taluka:Mandvi,DistKutch
4. GMDC Lignite Project, Tadkeshwar,Taluka::Mandvi,Dist:Surat
5. GMDC Lignite Project, Rajparddi, Taluka: JhagadiaDistBharuch
6. GMDC Fluorspar Project,Kadipani,Taluka:Kawant,Dist:Vadodara
7. GMDC Lignite Project, Budhel, DistBhavnagar
8. GMDC Manganese Project, Shivrajpur,DistPanchmahals
9. GMDC Bauxite Project, Bhatia, Taluka:Kalyanpur, Dist.Jamnagar.
10. GMDC Corporate Office Building, Ahmadabad,
11. GMDC Akrimota Thermal Power Station, Nani Chher, Ta: Lakhpat ,Dist: Kutch only Plant &

Colony Street Light. Plant equipments are excluded.

12. GMDC Lignite Project, Panandhro, Taluka:Lakhpur,DistKutch

11. Approach &Methodology:

The assignment will cover all aspects of the project as set in the project proposal to establish whether the planned activities and anticipated outputs have been attained, and whether there are outcomes to document emanating from the project’s interventions. While maintaining independence/neutrality, the review shall adopt a participatory approach.

The consultant will be expected to provide a detailed evaluation design that includes key evaluation questions, key indicators, sources of data/information, and data collection methods and instrument including key tasks, activities and timelines.

Furthermore, the review shall be structured in respect to the three evaluation criteria i.e. relevance, efficiency and effectiveness against original project objectives, taking into account of the realities on the ground; and the extent to which the project addressed the needs of its stakeholders.

12. Period & Duration of Work/Deliverable:

The Energy Audit Report should contain the following information:-

- Methodology adopted for the study.
- Present energy scenario of the Mines & Corporate Office.
- Detailed analysis of the data obtained through field visits, trial measurements by portable gadgets, discussion with concerned personnel etc.
- Data collection, information related to the equipment as per the suggestive template format.
- List of suppliers / manufacturers of energy efficient technologies.
- Detailed baseline parameters including assumptions, static factors, independent variables, inventory of energy consuming gadgets etc.
- Recommendations for energy saving options in all possible areas with cost benefit analysis (payback period)

Deliverable	From the date of signing the contract
Inception Report	This shall be prepared and submitted within 3 weeks after signing the contract. The Inception report shall include the Questionnaire/Survey forms, proposed evaluation design/plan, implementation plan and timelines.
Draft Report	This shall be submitted 10 weeks after commencing the assignment. Consultants may be requested to come and present the Draft Report to BEE to obtain their comments and suggestions to improve the quality of the work.

Final Report	This shall be submitted to BEE in 12 week time after presenting the draft report. The Final Report shall have incorporated comments and suggestions from BEE, as well as any other data not fully captured at the time of writing the draft report. The format shall be agreed with BEE after signing the contract.
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13. Proposal

13.1 PREPARATION OF PROPOSAL

The proposal should be in two parts: Part A – Technical; Part B – Financial, on A-4 sized pages (Font – Times New Roman; Font Size 11 with margins set at least 2.5cm all round); should include the following:

Part A: Technical:

1. Background information that includes an interpretation and understanding of the terms of reference;
2. Methodology and approach outlining a clear conceptual and analytical framework for the audit;
3. Proposed work plan outlining clear timeframe and logical steps in conducting the assignment;
4. Profile of the consultant (s) and detailed CV;
5. Name and brief background of the consultants, including existing experience and expertise that will be of benefit to the proposed audit;
6. Names and contact information of referees for the three most recent and relevant projects.

Part B: Financial:

Financial offer should only indicate price without any condition or qualification whatsoever and should include all taxes, service tax, duties, fees, levies, and other charges levied by Central & State Government/ government bodies, as may be applicable in relation to activities proposed to be carried out. If there would be any increase in the taxes, levies, duties, fee and other charges during tenure of the contract, the financial burden of the same shall be borne by the bidder. The Financial Offer in respect of the above assignment must be valid for 120 days from the date of opening of the Financial Offer. Bidders should express the price of their services in Indian currency only. Format for financial proposal is enclosed as Annexure-1.

14. Intellectual Property Rights (IPR)

Confidentiality of Data and Documents: All Intellectual Property Rights (IPR) of data collected as well as the deliverables produced shall remain with the GMDC. All knowledge and information, which may be acquired during the assignment, shall be for all times and for all purposes, regarded as strictly

confidential and held in confidence, and shall not be directly or indirectly is closed to any person what so ever, without the explicit written permission of GMDC

15. Liquidated Damages (LD)

15.1 For any delays attributable to the Bidder beyond the scheduled period of completion of the entire work as per the agreed completion schedule, the successful Bidder shall pay to GMDC liquidated damages at the rate of 0.5% of contract value per week subject to maximum 10% of contract value.

15.2 Maximum applicable Liquidated Damages: The upper ceiling for total liquidated damages for delay shall be maximum 10% of the Contract Price.

15.3 The said right of the GMDC to levy damages on account of delay shall be without prejudice to and in addition to the right of the Company to get the concerned work done from a third party at the complete risk and cost of the Bidder.

15.4 For calculation of LD, date of issue of LOI shall be the reference date.

16. Payment Terms

16.1

Sr. No	Milestone for Works	Amount
1	Submission of Draft Energy Audit Report	25% of the total cost
2	Submission of Final Energy Audit Report	75% of the total cost

16.2 The bills, submitted at the office of General Manager (Power) will be processed within 30 days considering the following deductions.

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

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

16.2.3 Liquidated damages,

16.2.4 Other deduction if any

17. Goods & Service Tax

17.1 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.

17.2 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.

18. Evaluation of Bids

18.1 The entire Bid shall be evaluated based on Quality Cum Cost Based System (QCBS) methodology as prescribed in subsequent clauses.

18.2 The Bid evaluation shall be first on Technical Score of max100, based on various coring criteria outlined as per following Table.

Sr No.	Criteria of Assessment	Parameters	Maximum Marks	Criteria for assigning score	Consultant shall provide the details
1	Experience in Energy Auditing as on 31 Dec 2021 in completed years	> 15 Years	40	40	
		> 12 Years		30	
		> 09 Years		20	
		>=06 Years		10	
2	Relevant Profile of the consultant(s) Detailed Energy Audit (DEA) of power system and installed equipments of Industries, of Electrical Distribution Sub Station and office buildings and / or prepared a detailed study report for energy conservation option of various sources like Electricity and Fuel oil in the campuses and recommend action for reducing the same. Experience of carrying out Energy Audit for Mining installation & Substations is desirable	> 7 orders	10	10	
		> 5 orders		8	
		> 2 orders		5	
3	Annual turn-over of the company (in INR)	>50 Lakhs	20	20	
		>40 Lakhs		16	
		>30 Lakhs		12	
		>20 Lakhs		8	
4	Proposed methodology and approach outlining a clear presentation and strong conceptual and		30		



	analytical skills.				
	Total Technical Proposal Score		100		

18.3 GMDC will examine the Bid to determine whether the bid is complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bid is generally in order.

18.4 Evaluation of both Techno-Commercial (un-priced) bids and priced bids shall be done separately.

18.5 In no case, a Bidder shall have the right to claim to be the Successful Bidder for its Bid.

18.6 Selection of successful Bidder shall be done as below:

18.6.1 Technical bids will be opened after verification of receipt of payment towards RFP Processing Fee and EMD.

18.6.2 After, meeting Eligibility Criteria (PQR), Responsiveness, Preliminary scrutiny of the Bid, the Technical Bid Evaluation shall be carried out.

18.6.3 Technical Proposal will be evaluated for eligibility on the basis of Bidder's experience, presentation and financial capability. Scoring of Technical Proposals would be done only for the Eligible Bidders.

18.6.4 A minimum of 60 marks out of 100 should be scored in the Technical Evaluation for the bid to be declared technically qualified.

18.6.5 All technical qualified Bidders shall be ranked from highest to lowest on the basis of their technical score.

18.6.6 The Financial Bids of only those Bidders who have obtained a technical score of 60 or more shall be opened.

18.6.7 The financial evaluation of the proposal will be carried out after determining whether the Financial Proposals are complete, qualified and unconditional.

18.6.8 The lowest financial proposal (LFP) will be given a financial score (FS) of 100 points.

The financial scores of other proposals will be computed as follows:

$$FS = 100 \times LFP/F;$$

Where in, F=Amount of Financial Proposal of the bidder

LFP= Lowest financial proposal

18.6.9 Final Evaluation Proposals will finally be ranked according to their Technical Score (TS) and Financial Scores (FS) as bellow:

$$CS = \text{Technical Score (TS)} \times 0.70 + \text{Financial Score (FS)} \times 0.30 \text{ Where}$$

CS is the combined score.

18.6.10 The contract will be awarded to the Bidder who scores highest (H1) in Combined Score (CS).

18.7 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.

18.8 Acceptance of Offer

18.8.1 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 7 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.

18.8.2 The Successful Bidder shall have to submit the Security Deposit with 7days from the date of acceptance of LOI. The Successful Bidder shall submit the Security Deposit in the manner prescribed in this RFP 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.

18.8.3 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 commencement of the work.

19. Statutory Obligations

19.1 If any amount becomes payable by GMDC as a result of any claim or application in terms of the provisions or non-compliance of provision of the any Acts and the Rules and Regulations, By-laws or the Orders made there under, applicable from time to time, such amounts shall be recoverable from the Successful Bidder for which GMDC will not be responsible for any compensation.

19.2 The Successful Bidder shall also indemnify the GMDC against any claims, compensations, damages, loss, liquidated damages etc. for breachand/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.

19.3 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.

20. 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.

21. Canvassing Not Permitted

21.1 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.

21.2 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 bidder even is blacklisted.

22. 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.

23. 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, what so ever, 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.

24. Governing Law

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

25. Jurisdiction

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

26. Arbitration

All questions, disputes, differences whatsoever which may at any time arises between the parties to this RFP and subsequent contract in connection with the RFP and subsequent contract or any matter arising out of or in relation there to, 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.

27. Non Fulfillment of Terms And Condition of The Contract

27.1 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.

27.2 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 forth with 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.

27.3 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.

28. Foreclosure

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

29. Force Majeure

29.1 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:

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

29.3 Acts of any government, including but not limited toward, 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.

29.4 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.

29.5 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.

29.6 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.

29.7 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.

Annexure "A"

Instruction To Bidders For Online RFP

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

Address:

(n) Procure Cell

(n) Code solutions A division of GNFC

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

Tel: +91 26857316/17/18 Fax: +91 79 26857321, Toll Free: 1800-233-1010

E-mail : nprocure@gnfc.net

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

a. GMDC:

Contact Person: 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 "B"

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
- ❖ Kalapur 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 D M M Y Y Y Y	
Pay		OR ORDER	
Rupees		₹	
 ICICI Bank Ahmedabad Branch Jinc House, Opp. Parimal Garden, Ahmedabad - 380006 RTGS / NEFT / FSC Code : ICIC000024			
A/c No. 002405019379		FOR GUJARAT MINERAL DEVE CORP LTD	
CBS BUSINESS BANKING - NEW CURRENT ACCOUNT Payable at par at all branches of ICICI Bank Limited in India		AUTHORIZED SIGNATORIES Please sign above	
SESHASAI (M) LTD - 28/12/12		⑈491099⑈ 380229002⑈ 019379⑈ 29	

Annexure "C"

**List of installed equipments at GMDC Lignite/Metal Mine Project and HO Building PROJECT NAME:
ALL PROJECTS:**

1) ELECTRICITY BILL:

Sr No	PROJECT	HT Connection No	Incoming Voltage (KV)	Contract Demand (KW/KVA)	Average Actual Demand (KW) FY:20-21	Average PF FY: 2020-21	Average Unit consumption (kwh)FY:2020-21	Average Electricity bill in Rs. FY: 2020-21
01	HEAD OFFICE	8000797	11	600	277.83	0.950	45068.33	522940.83
02	MATA NO MADH	31614	11	600	605	0.976	271060.66	2053443.75
		31910	11	110	24.5	0.997	6157.75	59568.41
03	UMARSAR	31908	11	400	276	0.97	88323.00	636035.00
04	ATPS	1	6.6	630	-	-	750960	NA
05	PANNADHRO	31007 (Mines)	11	600	75	1.000	14328.00	195328.00
		31032 (Mines)	11	175	72	0.998	12549.00	65715.00
		31009 (Colony)	11	400	148	0.992	46156.00	363310.00
06	BHAVNAGAR	23748	11	450	272	0.98	100894.00	711593.58
		24920	11	250	63	1.00	8136.66	85238.25
		23890	11	100	26	1.00	19021.33	141890.49
07	RAJPARDI	39332	11	2000	1974	0.98	1024146.00	8050761.03
		09001/00983/2	430	30 HP	-	0.8	52800	384000
		09001/00969/7	430	7.5 HP	-	0.8	102120	102000
		09001/01072/5	430	7.5 HP	-	0.8	4320	36000
08	TADKESHWAR	10646	11	550	521	0.994	240650	1805241
09	SHIVRAJPUR	10502/01523/03 LT Connection	0.433	19	NA	NA	1064.75	9665.00
10	KADIPANI	1.13305	11	250	30	1.00	36776	1082807
		2.13341	11	250	25	0.997	88102	9727530
11	GADHSHISHA	LT Connection-39802/00318/2	0.433	20				
		LT Connection-39117/00231/1	0.433	15				
		LT Connection-86265/00688/6	0.433	15				
12	BHATIA	LT Connection-	0.433	15				



	82408/00313/0						
	LT Connection- 82408/00314/8	0.230	5				

2) POWER/LIGHTING TRANSFORMER:

Sr No	PROJECT	Transformer type (Power/Lighting)	Rating(KVA) A	Qty B	Total Load= A*B	Voltage Ratio	Location
01	HEAD OFFICE	Power & Lighting	800	1	800	11 /0.433	Substation
		Stand By	315	1	315	11 /0.433	Substation
02	MATANOMADH	Power	1250	1	1250	11/0.433	Mines
		Power	200	1	200	11/0.433	Mine
		Power	315	1	315	11/0.433	Mine
		Power	1000	1	1000	11/0.433	Mine
		Lighting	25	4	100	415/220	Mines
		Power	200	1	200	11/0.433	Colony
03	UMARSAR	Power	500	1	500	11/0.415	Mines
		Power	250	1	250	11/0.415	Mines
		Power	100	2	200	11/0.415	1 admin office 1 Idle
		Power	10	1	10	11/0.415	Idle
		Lighting	100	1	100	415/230	Mines
		Lighting	50	1	50	415/230	Mines
		Lighting	16	13	208	415/230	Mines
04	ATPS	Power & Lighting	630	2	1260	6.6/433	colony
05	PANANDHRO	(Power & Lighting)	315	1	315	11/0.415	Mines (RO Plant)
		(Power & Lighting)	250	1	250	11/0.415	Mines (ADM)
		(Power & Lighting)	100	1	100	11/0.415	Old 66 kv ss
		(Power & Lighting)	400	1	400	11/0.415	Colony
06	BHAVNAGAR	Power	63	1	63	11/0.415	Mines
		Power	250	3	750	11/0.415	Mines
		Power	500	1	500	11/0.415	Mines
		Power	100	1	100	11/0.415	Mines
		Power	750	1	750	11/0.415	Mines
		Power	250	1	250	11/0.415	colony
		Lighting	50	3	150	415/110	Mines
		Lighting	25	5	125	415/110	Mines
07	RAJPARDI	Power	1000	2	2000	11/0.415	Mines
		Power	800	2	1600	11/0.415	Mines
		Power	250	1	250	11/0.415	Mines
		Power	100	3	300	11/0.415	Mines
		Lighting	75	1	75	415/220	Mines
08	TADKESHWAR	Power	500	2	1000	11/0.433	Mines
		Power	315	1	315	11/0.433	Mines
		Power	250	2	500	11/0.433	Mines
		Power	150	1	150	11/0.433	Mines
		Power	63	1	63	11/0.433	Mines
		Lighting	25	4	100	415/220	Mines



		Lighting	100	2	200	415/220	Mines
		Lighting	50	2	100	415/220	Mines
09	SHIVRAJPUR	POWER/LIGHTING	NA	NA	NA	NA	NA
10	KADIPANI	POWER/LIGHTING	1000	1	1000	11/0.433	Sub Station
		POWER/LIGHTING	1000	1	1000	11 /0.433	Stand By not Use
		POWER/LIGHTING	1000	1	1000	11 /0.433	Stand By not Use
		POWER/LIGHTING	100	1	100	11 /0.433	Colony Shopping Centre, Guest House
		POWER/LIGHTING	250	1	250	11 /0.433	Hafeshwar
		POWER/LIGHTING	250	1	250	11 /0.433	Padar
11	GADHSHISHA	Not Applicable					
12	BHATIA	Not Applicable					

3) PUMP MOTOR/BOREWELL/FIRE PUMP/LIFT:

A) HEAD OFFICE

Sr. No	Pump Motor type (Mono block/Submersible/others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location	Remarks
01	Kirloskar Mono Block submersible	10	2	20	415	Overhead tank fill up	Under Ground tank	1 spare
02	KSB submersible pump	33	2	66	415	Underground tank fill up	Borewell	1 spare
03	Kirloskar submersible	7.5	1	7.5	415	Gardening	Under Ground tank	
04	Lubi Mono block submersible	1.5	2	3.0	415	Fountain	Porch area	
05	Lubi Mono block submersible	3	1	3.0	415	Dewatering in basement	Basement	
06	Lubi submersible pump	40	1	40	415	Main fire pump	Fire Pump House	
07	Kirloskar with pump	15	1	15	415	Jockey fire pump	Fire Pump House	
08	Siemens motor with Gear Box	20	2	40	415	Lift 1 & 2	Lift Room	
09	Siemens motor with Gear Box	9	1	9	415	Lift 3	Lift Room	

Total Pump Motor/Borewell/Fire Pump/Lift Load in HP: 203.5

B) MATANOMADH

Pump Motor/Bore well/STP plant/ETP plant:

Sr. No	Pump Motor type (Mono block/Submersible/others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Submersible	10	2	20	415	Borewell	Colony
02	Submersible	85	6	510	415	Dewatering	Mines
03	Centrifugal	20	2	40	415	Tanker filling	Mines
04	Sewage Treatment Plant	1.5	5	7.5	415	STP plant	Colony
05	ETP Plant	63	1	63	415V	ETP Plant	Mine

Total Pumping Load in HP: 640.5



C) UMARSAR

Pump Motor/Bore well:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Submersible	52	1	52	415	Bore well	Contractor Camp
02	Submersible	52	2	104	415	Dewatering	Mines
03	Submersible	15	1	15	415	Dewatering	Mines
04	Submersible	40	1	40	415	Bore well	Contractor Camp
05	Centrifugal	52	1	52	415	Dewatering	Mines
06	Centrifugal	1	1	1	415	Supply	Admin Office
07	Centrifugal	12.5	1	12.5	415	Dewatering	Mines Surface
08	Centrifugal	7.5	1	7.5	415	Dewatering	Mines Surface

Total Pumping Load in HP: 284

D) ATPS

Pump Motor/Bore well:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Submersible	15	02	30	415	Pump water to overhead tank	Overhead tank
02	Three phase induction motor	30	01	30	415	Pump water to overhead tank	Overhead tank
03	Three phase induction motor	7.5	03	22.5	415	Pump drain water to sewage plant	In front of D1, Back of colony MCC room and near labour colony
04	Three phase induction motor	7.5	10	75	415	Sewages treatment plant	colony

Total Pumping Load in HP: 157.5

E) PANANDHRO

Pump Motor/Borewell:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Pumps (RO Plant)	75 (Total HP)	7	75	415	RO plant	Mines
02	Compressor (STP)	30	2	60	415	STP comp	colony
03	Pump (STP)	60 (Total HP)	5	60	415	STP	Colony
04	Pump House	20	2	40	415	Pump House	Colony
05	Sewage	10 HP	2	20	415	Sewage pump house	Colony



Total Pumping Load in HP: 255

F) BHAVNAGAR

Pump Motor/Borewell:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Submersible	60	1	60	415	Dewatering	Mines
02	Submersible	75	2	150	415	Dewatering	Mines
03	Submersible	5	1	5	415	Drinking water	ADM
04	Submersible	10	1	10	415	Plantation	Mines
05	Monoblock	120	1	120	415	Dewatering	Mines

Total Pumping Load in HP: 345

G) RAJPARDI

Pump Motor/Borewell:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	SQUIRREL,CENTRIFUGAL PUMP	180	7	1260	415	Dewatering	Mines
02	SQUIRREL,CENTRIFUGAL PUMP	215	2	430	415	Dewatering	Mines
03	SUBMERSIBLE	120	1	120	415	Dewatering	Mines
04	SQUIRREL,CENTRIFUGAL PUMP	120	4	480	415	Dewatering	Mines
05	SUBMERSIBLE	140	1	140	415	Dewatering	Mines
06	MONOBLOCK	40	2	80	415	Dewatering	Mines
07	MONOBLOCK	20	1	20	415	Dewatering	Mines
08	SUBMERSIBLE	20	6	120	415	Dewatering	Mines
09	SUBMERSIBLE	310	1	310	415	Dewatering	Mines
10	ETP- MONOBLOCK PUMPS	75	1	75	415	Dewatering	Mines
11	SUBMERSIBLE	20	2	40	415	Borewell	Colony Water
12	SUBMERSIBLE	2.5	1	2.5	230	Fountain	Colony Pond
13	SUBMERSIBLE	2.5	2	5	230	STP	Colony
14	PUMP MOTOR	5	2	10	230	STP	Colony
15	PUMP MOTOR	1	4	4	230	STP	Colony

Total Pumping Load in HP: 3096.5

H) TADKESHWAR

Pump Motor/Borewell:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Submersible	15	2	30	415	Borewell	Mines
02	Submersible	125	4	500	415	Dewatering In operation During the monsoon)	Mines
03	Submersible	52	2	104	415	Dewatering In	Mines
03	Submersible	5	1	5	415	Borewell	Mines
04	Submersible	3	3	9	230	Use For drinking water purpose	ADM/Time office

Total Pumping Load in HP: 648

Pump Motor- ETP plant:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in KW	Qty	Total KW	Voltage	Application	Location
01	Mono block	9.5	3	28.5	415 V	ETP plant operation	ETP plant
02	Mono block	7.5	7	52.5	415 V		
03	Mono block	3.7	2	7.4	415 V		
04	Mono block	0.7	2	1.4	415 V		
05	Mono block	0.5	9	4.5	415 V		
06	Mono block	0.35	3	1.05	415 V		
07	Mono block	0.25	12	3	415 V		
08	Mono block	0.15	6	0.9	415V		
		Total Watt					

Total Pumping Load in KW: 99.25



I) SHIVRAJPUR

Pump Motor/Borewell:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Submersible	05	01	05	415	Borewell	MINES
02	Mono block	0.12	02	0.24	230	Over head tank water fill up	ADM Office

Total Pumping Load in HP: 5.24

J) KADIPANI

Pump Motor/Borewell:

Sr. No	Pump Motor type (Monoblock/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Submersible	7.5	1	7.5	440		Substation

Total Pumping Load in HP: 7.5

K) GADHSHISHA

Pump Motor/Borewell etc.:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Voltage	Application	Location
01	Borewell pump	30	1	30	415	Colony Borewell	Colony
02	Borewell pump	15	1	15	415	Borewell	Plant
03	Submersible pump	03	1	03	415	Under ground Water tank	Colony
04	Pulverizing motor	03	1	03	415	Pulverizer	Plant Chemical LAB
05	Crusher motor	03	1	03	415	Crusher	Plant Chemical LAB
06	Water Washing pump	03	1	03	415	Vehicle water washing	Workshop
07	Submersible pump	03	1	03	230	Plantation/ irrigation	Balachod mine



08	Mono block pump	1.0	1	1.0	230	For Uplifting of water in overhead tank	Ratadiya mine
09	Mono block pump	1.0	1	1.0	230	For Uplifting of water in overhead tank	Roha (kotda) mine
10	Mono block pump	1.0	1	1.0	230	For Uplifting of water in overhead tank	Daban mine
11	Mono block pump	1.5	1	1.5	230	For Uplifting of water in overhead tank	Wandh mine

Total Pumping Load in HP: 64.5

L) BHATIA

Pump Motor/Borewell:

Sr. No	Pump Motor type (Mono block/Submersible/ others)	Motor Rating in HP	Qty	Total HP	Watt	Application	Location
01	Water Pump-1	1	1	1	0.750 KW	Mines	Project Office
02	Water Pump-2	0.5	1	0.5	0.375 KW	Mines	First Aid Mining Room

Total Pumping Load in HP: 1.5

4) LIGHTING & CEILING FAN OR WALL OR PEDESTAL FAN ETC.

A) HEAD OFFICE

Sr. No	Lighting Type (LED/CFL/HPSV/ etc)	Qty (A)	Fixture rating in W (B)	Fitting qty I	Total Load W= A*B*C	Application
01	36 WX 2 Nos. Tube light	2	36	516	37152	Basement, Ground, 1 st & 4 th to 8 th floor
02	50W SPOTLIGHT	1	50	299	14950	Ground floor and 5 st to 8 th floor
03	24 W LED Round	1	24	83	1992	Basement to 8 th floor & VIP Stair case
04	9 W CFL	1	9	620	5580	Ground and 5 th to 8 th floor
05	22 W LED 4 ft.	16	22	352	352	8 th Floor
06	12 W LED 2 ft.	12	12	144	144	8 th Floor
07	95 W LED	1	95	13	1235	Street light
08	HPSV Lamp 70 W	1	70	24	1680	Street light
09	70 W MH LAMP	1	70	16	1120	Auditorium
10	30 W LED	1	30	8	240	Auditorium
11	LED Board	1	3600	2	7200	LED GMDC Board



			Total		71645	
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Total Lighting Load: 71.65 KW

Computers:

Sr. No.	Computer Make	Volt	Amp	Rating (W)	Approx. Qty	Total Load in Watt
01	HCL	240	1.2	230	150	34500
02				Total		34500

Total Lighting Load: 34.5 KW

Ceiling/Wall/Pedestal Fan:

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Approx. Qty	Total Load	Location
01	Pedestal Fan	58	90	5220	COB
02	Ceiling Fan	55	25	1375	COB
		Total		6595	

Total Load: 6.60 KW

Water Cooler:

Sr. No.	Water Cooler	Capacity in LPH	Rating (W)	Approx. Qty	Total Load in KW	Location
01	Water Cooler	80	800	10	8000	3 rd to 8 th Floor
			Total		8000	

Total Load: 8 KW

B) MATANOMADH

Sr. No	Lighting Type (LED/CFL/HPSV/ etc)	Qty(A)	Rating in Watt (B)	Total Load Watt= A*B	Application
01	LED tube light	80	22	1760	Office, Store, W/S, T/O, Dispensary, Canteen, all S/S
02	LED Lamp	25	9	225	Adm. Office
03	LED street light fitting	110	60	6600	RPL road
04	LED street light fitting	50	55	2750	Service Road
05	LED Flood light fitting	10	200	2000	Adm. Office, All S/S
06	LED Flood light fitting	60	400	24000	high mast tower
07	LED Flood light fitting	60	200	12000	High mast tower
08	LED street light fitting	50	50	2500	colony street light
09	LED flood light fitting	4	400	1600	High mast tower-colony



10	LED flood light fitting	8	200	1600	colony
11	2x400w HPSV flood light fitting	10	800	8000	High mast tower
12	LED flood light fitting	50	400	20000	Mine
13	LED flood light fitting	40	200	8000	Mine
14	LED tube light fitting	400	22	8800	Colony
				99610	

Total Lighting Load: 99.610 KW

Contractor Camp (M/S Maha Laxmi Camp)

Sr. No	Make/type of equipment	Quantity	Wattage/Ampere	Total load	Application
01	Computer	2	1000	2000	Office use
02	Printer	2	250	500	Office use
05	Ceiling fan-48"	181	70	12670	Office use
06	LED tube light	155	22	3410	Office use
07	RO plant	2	1500	3000	General use
08	Fridge	2	250	500	Office work
09	High mast tower(HPASV fittings)	12	400	3600	General Camp lighting
10	Welding m/c	5	22 kVA	88000	Work Shop
11	Plazma cutter	1	2000	2000	Work Shop
12	Split Air-conditioner(1.5t)	11	1800	19800	Office use
13	Lathe m/c	1	4000	4000	Work Shop
14	Washing motor	6	2200	13200	Work Shop
			Total Load	152680	

Total Load: 152.680 KW



Contractor Camp (M/S PC Patel)

Sr. No	Make/type of Equipment	Quantity	Wattage/KVA	Total load	Application
01	Computer	4	1000	4000	Office work
02	Printer	3	250	750	Office work
03	Ceiling fan-48"	182	70	12740	Office use, residence/s etc
04	LED tube light	200	22	4400	Office use, residence, w/s etc
05	Water cooler	2	370	740	General use
06	LED flood light fitting	20	400	8000	General light for camp
07	Welding m/c	3	30 kVA	72000	Work Shop
8	Welding m/c	2	22 kVA	35200	Work Shop
9	Grinder	1	560	560	Work Shop
10	Split Air-conditioner(1.5t)	10	1800	18000	Office use
11	Lathe m/c	1	4000	4000	Work Shop
12	Washing pump motor	2	1100	2200	Work Shop
13	LED flood light fitting	12	200	2400	High mast tower
			Total Load	164990	

Total Load: 164.990 KW

Computers/Printers:

Sr No	Make	Quantity	Wattage/Ampere	Total load	Application
01	HCL make Computer Sets	24	1000	24000	Office work
02	HP/Samsung make Printer	24	250	6000	Office work
03	Zerox m/c	1	1350	1350	Office Use
04	Plotter	1	120	120	Survey Dept.
			Total Load	31470	

Total Load: 31.470 KW



Ceiling/Wall Fans:-

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load`in Watt	Location
01	Ceiling fan-48”	65	185	12025	Adm. Office, Store, T/O, Dispensary, Rest Shelter, W/S & Colony
02	Wall fan	50	7	350	Store & Adm. Office
			Total Watts	12375	

Total Load: 12.375 KW

C) UMARSAR

Sr. No	Lighting Type(LED/CFL/HPSV/ etc	Qty (A)	Fixture rating in W (B)	Fitting qty I	Total Load W= A*B*C	Application
01	LED	05	400	4	8000	High Mast
02	LED	02	400	4	3200	High Mast
03	HPSV	03	800	12	28800	High Mast
04	LED	70	90	2	12600	Street Light
05	HPSV	51	250	2	25500	Street Light
06	HPSV	34	250	2	17000	Street Light
07	LED	30	200	1	6000	Surface area
08	LED	30	200	1	6000	Mines
09	LED	10	400	1	4000	Mines
10	T5 tube light	48	36	1 (single Fitting)	1728	ADM Office
11	LED Lamp	25	9	1	225	Time office
				TOTAL WATT	113053	

Total Lighting Load: 113.053 KW

Ceiling/Wall/Pedestal Fan:

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load	Location
01	Ceiling fan	80	25	2000	ADM Office , Time office, Store
02	Pedestal Fan	80	10	800	ADM Office , Time office, Store
03	Wall Fan	60	06	360	Weigh bridge, Maintenance Dep.
			TOTAL WATT	3160	

Total Load: 3.160 KW



D) ATPS

Sr. No	Lighting Type (LED/CFL/HPSV/ etc)	Qty (A)	Fixture rating in W (B)	Fitting qty I	Total Load W= A*B*C	Application
01	LED	227	90	227	20430	Colony street light
02	HPSV	99	250	99	24750	Colony street light
03	tube light	437	36	437	15732	VIP,hostel,club,hospital
04	Ceiling fan	383	75	383	28725	VIP,Hostel,club,hospital
05	Geyser	84	3000	84	252000	VIP,Hostel
06	AC	47	2000	47	94000	VIP, Hospital
07	Decorative lamp	64	60	64	3840	VIP
				Total WATT	439477	

Total Lighting Load: 439. 477 KW

Ceiling/Wall/Pedestal Fan:

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load (W)	Location
01	Ceiling fan	80	383	30640	VIP, Hostel, Club, School, Hospital
			Total Watt	30640	

Total Load: 30.640 KW

E) PANANDHRO

Sr. No	Lighting Type (LED/CFL/HPSV/ etc)	Qty (A)	Fixture rating in W (B)	Total Load W= A*B	Application
01	LED	300	60	1800	COLONY STREET LIGHT
02	LED	10	90	900	ABOVE
03	LED	6	200	1200	GENERAL LIGHTING
04	HPSV	72	800	57600	HIGH MAST
05	HPSV	10	400	4000	MINES & COLONY
06	Tube light	700	40	28000	COLONY STAFF I
07	Tube light	180	40	7200	MINES AND COLONY-VIP,GTH,HOS
08	Tube light	165	80	13200	MINES AND COLONY-VIP,GTH,HOS



09	LED Lamp	30	9	270	COLONY GUST HOUSE
			Total Watt	114170	

Total Lighting Load: 114.170 KW

Ceiling/Wall/Pedestal Fan;

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load	Location
01	Ceiling fan	80	775	62000	COLONY STAFF QUARTER OTHERS
02	Ceiling fan	80	60	4800	ADM –MINES
			Total Watt	66800	

Total Load: 66.800 KW

F) BHAVNAGAR

Sr. No	Lighting Type (LED/CFL/HPSV/ etc)	Qty (A)	Fixture rating in W (B)	Total Load W= A*B	Application
01	LED	80	200	16000	
02	HPSV	120	800	96000	
03	HPSV	58	400	23200	
04	HPSV	112	250	28000	
05	HPSV	88	70	6160	
06	T5 tube light	150	28	4200	
07	LED Lamp	50	14	700	
			Total Watt	174260	

Total Lighting Load: 174.260 KW

Ceiling/Wall/Pedestal Fan:

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load	Location
01	Ceiling fan	125	52	6500	ADM Office
02	Wall fan	80	14	1120	ADM
03	Cabin fan	60	30	1800	MINE
04	Pedestal Fan	80	1	80	E GALLERY
			Total Watt	9500	

Total Load: 9.500 KW

G) RAJPARDI

Sr. No.	Lighting Type (LED/CFL/HPSV/) etc	Qty (A)	Fixture rating in W (B)	Fitting Qty I	Total Load W= A*B*C	Application
01	LED/High Mast	04	350	12	16800	MINE ILLUMINATION
02	HPSV/ High Mast	01	800	12	9600	ILLUMINATION W/B



03	LED/Street light	52	100	2	10400	TRUCK ROUTE
04	LED Flood light	8	100	1	800	CAMPUS
05	HPSV/Mobile tower	6	800	5	24000	Mine illumination
06	Fabricated tower	3	800	4	9600	Mine illumination
07	Tube light	70	36	1	2520	office
08	LED Lamp	10	16	1	160	GM OFFICE
09	LED	40	70	1	2800	Colony Guest House, Hospital, GVTC
10	CFL Fittings	11	48	1	528	
11	Tube light	25	36	1	900	
12	LED Lamp	10	18	1	180	
13	LED Flood light	2	100	1	200	
				Total Watt	78488	

Total Lighting Load: 78.488 KW

Ceiling/Wall/Pedestal Fan:

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load	Location
01	Ceiling Fan	60	55	3300	Office
02	Wall Fan	60	03	180	Office
03	Ceiling Fan	80	40	3200	Colony Guest House, Officers, GVTC
04	Wall Fan	60	4	240	
05	Pedestal Fan	60	1	60	
			Total Watt	6980	

Total Load: 6.980KW

H) TADKESHWAR

Sr. No.	Lighting Type (LED/CFL/HPSV/ etc)	Qty (A)	Fixture rating in W (B)	Total Load W= A*B	Application
01	T-5 Tube light	114	28	3192	ADM/Time office/guest house/moveable house
02	Tube Light-40W	50	40	2000	
03	Lamp LED	24	20	480	
04	LED fitting	150	120	18000	Street light/ electrical Substation/ADM
05	LED fitting	85	350	29750	High Mast/ movable tower
06	HPSV fitting	11	400	4400	High Mast/ movable tower /Mines Lighting
07	HPSV fitting	130	800	104000	High Mast/ movable tower/ Mines Lighting
			Total Watt	161822	

Total Lighting Load:161.822 KW



DIMPL (Contractor camp)-Tadkeshwar

Sr. No	Lighting Type(LED/CFL/HPSV/ etc	Qty(A)	Fixture rating in W (B)	Total Load W= A*B	Application
01	LED fitting	114	20	2280	
02	HPSV fitting	6	400	2400	
03	HPSV fitting	14	800	11200	
			Total Watt	15880	

Total Lighting Load:15.880 KW

Ceiling/Wall/Pedestal Fan: ADM/Time office/W/B/ store/guest house/canteen

GMDC-Tadkeshwar

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W) (A)	Qty (B)	Total Load W= A*B	Location
01	Ceiling fan	60	73	4380	ADM/Time office/W/B/ store/guest house/canteen
02	Pedestal fan	55	20	1100	
			Total Watt	5480	

Total Load: 5.480 KW

Ceiling/Wall/Pedestal Fan: ADM/Time office/W/B/ store/guest house/canteen

DIMPL (Contractor camp)-Tadkeshwar

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W) (A)	Qty (B)	Total Load W= A*B	Location
01	Ceiling fan	60	184	11040	Camp
			Total Watt	11040	

Total Load:11.040 KW



I) SHIVRAJPUR

Sr. No.	Lighting Type (LED/CFL/HPSV/ etc)	Qty(A)	Fixture rating in W (B)	Total Load W= A*B	Application
01	LED LAMP	46	09	414	ADM Office /Mines Lighting
02	TUBE LIGHT	08	24	192	ADM office
			Total Watt	606	

Total Lighting Load: 0.606 KW

Ceiling/Wall/Pedestal Fan:

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load	Location
01	Ceiling/Wall/Pedestal Fan/Exhaust	55	25	1375	ADM Office ,workshop,Rest room W/B etc
02	R.O with Cooler	48	02	96	ADM Office
			Total Watt	1471	

Total Load: 1.471 KW

J) KADIPANI

Sr. No.	Lighting Type (LED/CFL/HPSV/ etc)	Qty (A)	Fixture rating in W (B)	Total Load W= A*B	Application
01	LED	20	24	480	COLONY, PLANT, MINES
02	HPSV	1	250	250	Hospital
03	T5 tube light	15	40	600	ADM office
04	LED Tube light	22	28	616	ADM Office
05	LED Lamp	10	9	90	ADM Office
			Total Watt	2036	

Total Load:2.036 KW

Ceiling/Wall/Pedestal Fan

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load	Location
01	Ceiling fan	60	210	12600	Colony ,Office& Guest house
02	Wall fan	60	3	180	ADM Office
Total Load				12780	



Total Load: 12.780 KW

K) GADHSHISHA

Sr. No.	Lighting Type (LED/CFL/HPSV/ etc)	Qty (A)	Fixture rating in W (B)	Total Load W= A*B	Application
01	LED STREET LIGHT LUMINAIRE	15	50	750	COLONY STREET LIGHTING
02	STREET LIGHTING	8	56	448	COLONY STREET LIGHTING
03	STREET LIGHTING	10	85	850	PLANT + COLONY STREET LIGHTING
04	T5 tube light	270	28	7560	ADM Office +COLONY
05	LED Tube light	30	20	600	ADMN OFFICE+MINES+LAB
06	LED Lamp	49	9	441	COLONY +MINES
07	METAL HELIDE LAMP	04	150	600	MINES
08	Ceiling/Wall/Pedestal Fan	220	80	17600	ADMN OFFICE+VTC ROOM+COLONY +Mines Offices etc.
			Total Watt	28849	

Total Lighting Load:28.849 KW

Ceiling/Wall/Pedestal Fan:

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load	Location
01	Ceiling fan	80	220	17600	ADM Office +COLONY+Mines offices
			Total Watt	17600	

Total Load: 17.600 KW

L) BHATIA

Sr. No.	Lighting Type (LED/CFL/HPSV/ etc)	Qty (A)	Fixture rating in W (B)	Fitting Qty. I	Total Load W= A*B*C	Application
01	LED Lamp	9			130	
02	CFL Lamp	10			160	
03	Printer	5			150	
04	Computer Set	10			1100	
05	Xerox Machine Cum Printer	1			1300	
06	Zero Lamp	4			60	
07	Tuber Light	5			200	
Total Watt					3100	

Total Lighting Load: 3.100 KW



Ceiling/Wall/Pedestal Fan:

Sr. No.	Type of Fan (Ceiling Wall/Pedestal)	Rating (W)	Qty	Total Load in Watt	Location
01	Ceiling Fan		6	450	ADM Office
	Ceiling Fan		1	75	Security Cabin
	Ceiling Fan		2	150	First Aid Room
	Ceiling Fan		1	75	Rest Shelter
	Ceiling Fan		1	150	New W/B
	Pedestal Fan		1	40	ADM Office
		Total Watt		940	

Total Load: 0.94 KW

Water Cooler and Water RO/Refrigeration:

Sr. No.	Voltas Cooler & Water RO	Rating in HP/KW	Qty	Total Load in Watt	Application	Location
01	Refrigeration	250 Ltr& 150 (In Watt)	1	150	GM Office	ADM Office
02	Voltas Cooler	40/20 Ltr& 800 (In Watt)	1	800	Breakdown	First Aid Room
03	Voltas Cooler	80/40 Ltr& 1100 (In Watt)	1	1100	ADM Office	ADM Office
04	Water R O	40 Ltr& 150 (In Watt)	1	150	Breakdown	Store Room
05	Water RO	40 Ltr& 300 (In Watt)	1	300	RO Plant	ADM Office
		Total Watt		2500		

Total Load: 2.500 KW

5) DG SET:

A) HEAD OFFICE

Sr .No.	DG Set rating in KVA	Make	Qty	Location
01	125 KVA	Ashok Leyland	1	DG Room

DG Set Total capacity:125 KVA



M) MATANOMADH

Sr. No.	DG Set Rating in KVA	Make	Qty	Location
01	160	CG	1	Electric Office at Mine
02	100	Ashok Leyland(Leypower)	1	At 200KVA S/S
03	200	Caterpillar India Pvt Ltd(FG Wilson)	1	Colony
04	225	Kirloskar	1	1250KVA S/S (u/b)
05	125		1	Maha Laxmi camp
06	84.5	Gangadhar Industries	1	PC Patel camp

DG Set Total capacity: 894.5 KVA

N) UMARSAR

Sr. No.	DG Set rating in KVA	Make	Qty	Location
01	250	Supernova	01	Mines Surface
02	100	Supernova	01	Mines Surface
03	100	Supernova	01	ADM area

DG Set Total capacity: 450

O) ATPS

Sr. No.	DG Set rating in KVA	Make	Qty	Location
01	380	StamFord	1	COLONY

DG Set Total capacity: 380 KVA

P) PANANDHRO

Sr. No.	DG Set rating in KVA	Make	Qty	Location
01	160	Greaves	2	R.O.Plant& Adm
02	25	Nova	2	T.O. Mines & Hospital

DG Set Total capacity: 370 KVA

Q) BHAVNAGAR

Sr. No.	DG Set rating in KVA	Make	Qty	Location
01	25	Ashok Leyland	1	SS/1



02	25	Ashok Leyland	1	ADM
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DG Set Total capacity: 50 KVA

R) RAJPARDI

Sr. No	DG Set rating in KVA	Make	Qty	Location
01	162 KVA	Crompton Greaves	01	AMOD NALLAH
02	32 KVA	German	01	Mine
03	25 KVA	Ashok Leyland	02	ADM/Mine
04	25 KVA	Ashok Leyland	01	MINE G4 DUMP
05	250 KVA	Kirloskar	01	COLONY

DG Set Total capacity: 519 KVA

S) TADKESHWAR

Sr. No.	DG Set rating in KVA	Make	(Qty)	Location
01	250	Mahindra powerol	2	TC-1 andTC-4

DG Set Total capacity: 500 KVA

T) SHIVRAJPUR

Sr. No.	DG Set rating in KVA	Make	Qty)	Location
01	10	Dipco Make	01	Mines

DG Set Total capacity: 10 KVA

U) KADIPANI:NIL

V) GADSHISHA:NIL

W) BHATIA:

Sr. No.	DG Set rating in KVA	Make	Qty)	Location
01	12.5	Ashok Leyland	01	ADM Office
02	Portable Generator (450 VA)	Honda EBK 650	1	Old W/B



6) UPS:

A) HEAD OFFICE

Sr. No.	Rating in KVA	Nos.	Total KVA	Make	Input Voltage	O/p Voltage	Application
01	20	2	40	Emerson	415	415	Data Centre

UPS total KVA: 40 KVA

B) MATANOMADH

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
01	1KVAx7Nos	Emerson	240V	230V	Computer
02	1KVAx4Nos	Servotech	240V	230V	Computer
03	1KVAx1Nos	Powerzen	240V	230V	Computer
04	2KVAx1Nos	Powerzen	240V	230V	Computer

UPS total KVA: 14 KVA+

C) UMARSAR

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
01	3 KVA 1 nos	Emerson	250	230 V	CCTV Server
02	1 KVA 12 nos	Sarthi	190-270	230 V	Computer system
03	1 KVA 05 nos	Sapt	190-270	230 V	Computer system

UPS total KVA: 20 KVA

D) ATPS:NIL

E) PANANDHRO:

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
01	1 KVA (15 NOS)	SARTHI AND OTHER	220 V	220 V	COMPUTER BACKUP POWER
02	3 KVA (2 NOS)	OMEGA	220 V	220 V	SERVAR AND COMPUTER BACKUP POWER

UPS total KVA: 21 KVA

F) BHAVNAGAR:

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application	Number
01	1 KVA (8 Nos.)	DCM-	220V	220V	Computer	8



		POWERCON				
02	1 KVA (1 Nos.)	EMERSON	220V	220V	Computer	1
03	1 KVA (2 Nos.)	NUMERIC	220V	220V	CCTV	2
04	1 KVA (4 Nos.)	POWERZEN	220V	220V	Computer	4
05	1 KVA (6 Nos.)	SARTHI	220V	220V	Computer	6
06	1 KVA (19 Nos.)	SERVOTECH	220V	220V	Computer	19
07	2 KVA (1 Nos.)	EVOLUTION	220V	220V	Computer	1
					Total UPS	41

UPS total KVA: 42 KVA

G) RAJPARDI

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
01	1 KVA	SERVOTECH	260V AC	220V AC	COMPUTER
02	1 KVA	SERVOTECH	260V AC	220V AC	COMPUTER
03	1 KVA	MICROTECH	260V AC	220V AC	COMPUTER
04	1 KVA	NUMERIC	260V AC	220V AC	COMPUTER
05	1 KVA	NUMERIC	260V AC	220V AC	COMPUTER
06	1 KVA	SERVOTECH	260V AC	220V AC	COMPUTER
07	5 KVA	UTL	260V AC	220V AC	COMPUTER
08	1 KVA	SARTHI	260V AC	220V AC	COMPUTER
09	1 KVA	APC	260V AC	220V AC	COMPUTER
10	1 KVA	APC	260V AC	220V AC	COMPUTER
11	1 KVA	APC	260V AC	220V AC	COMPUTER
12	2 KVA	HITACHI	260V AC	220V AC	COMPUTER
13	3 KVA	EMERSON	260V AC	220V AC	CCTV

UPS total KVA: 20 KVA

H) TADKESHWAR:

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
1	3KVA	ON-LINE	210 to 260	230	CCTV
2	1KVA	EMERSON	210 to 260	230	CCTV
3	1KVA	INTEX	210 to 260	230	CCTV
4	1KVA	EMERSON	210 to 260	230	CCTV
5	1KVA	EMERSON	210 to 260	230	CCTV
6	1KVA	EMERSON	210 to 260	230	CCTV
7	1KVA	EMERSON	210 to 260	230	CCTV
8	1KVA	INTEX	210 to 260	230	CCTV
9	1KVA	EMERSON	210 to 260	230	CCTV
10	1KVA	EMERSON	210 to 260	230	Computer
11	1KVA	Microtik	210 to 260	230	Computer
12	1KVA	POWERZEN	210 to 260	230	Computer



13	1KVA	Microtik	210 to 260	230	Computer
14	1KVA	POWERZEN	210 to 260	230	Computer
15	1KVA	POWERZEN	210 to 260	230	Computer
16	1KVA	ARROW	210 to 260	230	Computer
17	1KVA	POWERZEN	210 to 260	230	Computer
18	1KVA	SERVOTECH	210 to 260	230	Computer
19	1KVA	SERVOTECH	210 to 260	230	Computer
20	1KVA	SERVOTECH	210 to 260	230	Computer
21	1KVA	SERVOTECH	210 to 260	230	Computer
22	1KVA	ARROW	210 to 260	230	Computer
23	1KVA	ELNOVA	210 to 260	230	Computer
24	1KVA	SERVOTECH	210 to 260	230	Network

UPS total KVA: 26 KVA

I) SHIVRAJPUR

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
01	01 KVA	Cliff's	230 Vac	1000 VA	Account D'ptt
02	01 KVA	Cliff's	230 Vac	1000 VA	H.R D'ptt
03	01 KVA	Cliff's	230 Vac	1000 VA	Weighbridge D'ptt

UPS total KVA: 03 KVA

J) KADIPANI

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
01	1-KVA	NITAL	220 V	230 V.	ADM Office
02	1-KVA	SERVOTECH	220 V	230 V.	ADM Office
03	1-KVA	SERVOTECH	220 V	230 V.	ADM Office
04	1-KVA	SERVOTECH	220 V	230 V.	ADM Office

UPS total KVA: 4 KVA

K) GADSHISHA

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
01	2	MICROTEK	230	230	ADMIN OFFICE G.M. SIR
02	2	MICROTEK	230	230	DABAN MINE WEIGH BRIDGE
03	2	LUMINOUS	230	230	NAREDI MINE OFFICE
04	2	MICROTEK	230	230	ROHA MINE WEIGH BRIDGE
05	1	MICRONOVA	230	230	WANDH MINE WEIGH BRIDGE



06	1	MICRONOVA	230	230	RATADIYA MINE WEIGH BRIDGE
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UPS total KVA: 10 KVA

L) BHATIA:

Sr. No.	Rating in KVA	Make	Input Voltage	O/p Voltage	Application
01	3	Asia Power	170 to 230	230 to (+/-17%)	Main Server Room
02	2	Microtech	210 to 220	230 to (+/-17%)	New W/B

UPS total KVA: 5 KVA

7) HT PANELS:

All Project & Head Office

Sr. No.	Project	Type of HT Breaker (SFU/VCB)	Rating of HT Breaker	Qty	Location/Feeder name
01	HEAD OFFICE	VCB, Make Biello Lawi	800 Amp	3	Sub Station - HT Room
02	MATANOH MADH	VCB	800 Amp	5	1250 KVA S/S, 315 KVA S/S & At Incoming Supply in 200 KVA S/S at Colony
		11 KVA SFU	630 Amp	1	Mines
03	UMARSAI	SF6	630 Amp	2	Switch Station 1, Sub Station 1
		VCB	800 Amp	3	Switch Station 1, Sub station 2,3
04	ATPS	6.6 KV VCB	830 Amp	1	Colony MCC
05	PANANDH	VCB,	600 Amp	5	66 KV SS
06	BHAVNAG	VCB	800	7	Mines
07	RAJPARD	VCB, 12 KV	400 Amp	3	Electric Substation
		VCB, 12 KV, CGL	630 Amp	1	Old CSS Box
		SF6, 12 KV, Insulated R	630 Amp	1	Amod CSS Box
		SF6, 12 KV, Insulated R	630 Amp	1	Bhuri CSS Box
08	TADKESH	VCB, 11 KV Four Panel Indoor type	400 Amp	1	Substation 1
		VCB, 11 KV Three Panel Indoor type	250 Amp	1	Substation 2
		OCB, 11 KV	400	1	TC-4
09	SHIVRAJ	NA			
10	KADIPAN	VCB, CG Make	600 Amp	3	Substation
11	GADHSHI	Not Applicable			
12	BHATIA	Not Applicable			

8) LT PANELS:

All Project & Head Office

Sr. No	Project	Type of Incoming LT Breaker: ACB/MCCB	Rating of LT Breaker	Qty	Location/Feeder name
01	HEAD OFFICE	LH 1250 DM1, Make: CG	1250 Amp	1	Sub Station – LT Room



		LH 1000 DM1, Make: CG	1000 Amp	4	Sub Station – LT Room
		SFU, Make: CG	630 Amp	2	Sub Station – LT Room
		SFU, Make: CG	250 Amp	2	Sub Station – LT Room
		SFU, Make:CG	125 Amp	2	Sub Station – LT Room
02	MATA NO MADH	Air Circuit Breaker Panel	2000 Amp	1	At 1250KVA S/S
		MCCB Panel	250 Amp	1	At 1250KVA S/S
		MCCB Panel	400 Amp	1	200KVA S/S
		Air Circuit Breaker Panel	800 Amp	1	315KVA S/S
		Air Circuit Breaker Panel	1600 Amp	1	CSS
		MCCB Panel	630 Amp	1	Electric Office
		MCCB Panel	400 Amp	1	Adm. Office
		MCCB Panel	400 Amp	1	Colony
		MCCB Panel	400 Amp	1	Maha Laxmi Camp(Contractor)
		MCCB Panel	400 Amp	1	PC Patel Camp(Contractor)
03	UMARSAR	MCCB	800 Amp	1	Mines Sub station 1
		MCCB	630 Amp	1	Mines Sub station 1
		MCCB	400 Amp	1	Mines Sub station 2
		MCCB	250 Amp	1	Mines Sub station 3
04	ATPS	ACB	800 Amp	2	COLONY MCC
		ACB	1250 Amp	1	COLONY MCC
		ACB DG INCOMER	800 Amp	1	COLONY MCC
		ACB	800 Amp	1	ANSALDO COLONY
		FEEDER	250 Amp	2	HOSTEL & HOSPITAL COLONY
		FEEDER	400 Amp	1	VIP COLONY
05	PANANDHRO	MCCB	400 Amp	10	Mines & Colony
		ACB	1000 Amp	01	Colony
06	BHAVNAGAR	ACB	800 Amp	2	Mine
		MCCB	400 Amp	4	Mine
07	RAJPARDI	MERLIN JENRO MAKE, ACB	2000 Amp	1	OLD CSS Box
		SCHNIDER MAKE ACB	1250 Amp	1	Amod CSS Box
		SCHNIDER MAKE ACB	1250 Amp	1	Bhuri CSS Box
		INDOASIAN MAKE ACB	630 Amp	1	ADM S/S
		MCCB	400 Amp	1	AMOD NALLAH
		MCCB	250 Amp	1	AMOD NALLAH
		MCCB	125 Amp	1	AMOD NALLAH
		MCCB	63 Amp	2	AMOD NALLAH
		MCCB	600 Amp	2	AMOD CSS SUMP-1
		MCCB	400 Amp	2	AMOD CSS SUMP-1
		MCCB	125 Amp	1	AMOD CSS SUMP-1
		MCCB	600 Amp	2	BHURI CSS SUMP-1
		MCCB	400 Amp	2	BHURI CSS SUMP-1
		MCCB	125 Amp	1	BHURI CSS SUMP-1
		MCCB	400 Amp	4	OLD CSS
		MCCB	250 Amp	4	OLD CSS
		MCCB	400 Amp	1	BORE 11



		MCCB	250 Amp	3	ADM S/S
		MCCB	400 Amp	1	GESEC Incomer with change over
		MCCB	125 Amp	12	Distribution Panel
		MCCB	250 Amp	1	Incomer
		MCCB	63 Amp	2	O/G to B type & sub station
		MCCB	125 Amp	2	O/G to C type Quarter
08	TADKESHWAR	ACB	800 Amp	2	TC-5 and TC-6
		ACB	630 Amp	2	TC-2 and TC-4
		MCCB	400 Amp.	1	TC-1
		MCCB	250 Amp	5	TC-1,4,5,7,S/S-1
		MCCB	125 Amp	4	TC-2,5,6,7
09	SHIVRAJPUR	NA			
10	KADIPANI	ACB	800 Amp	5	Substation
		MCB	400 Amp	1	Substation
11	GADHSHISHA	ACB	1600 Amp	1	LT Panel Room
12	BHATIA	NA			

9) CAPACITORS:

All Project & Head Office

Sr. No.	Project	Capacitors rating (KVAR)	Qty	Total KVAR	Installed Location
01	HEAD OFFICE	25	06	150	Capacitor Panel
02	MATANOMADH	25	6	150	1250KVA S/S, 200KVA S/S & 315KVA S/S
		10	2	20	At colony
		05	2	10	At Colony
03	UMARSAR	25	04	100	Contractor Camp, Mines Sub Station
04	ATPS (ENERGY SAVING PANEL)	36 KVA	2	72	Colony
		12 KVA	1	12	Hostel Colony
05	PANANDHRO	71	2	142	66 KV SS
		25	2	50	Colony
06	BHAVNAGAR	100	6	600	Mine
07	RAJPARDI	25	2	50	ADM S/S
		25	5	125	AMOD NALLAH
		25	10	250	SUMP NO-1
		75	1	75	SUMP NO-1
		25	8	200	BHUR CSS SUMP NO-1
		100	2	200	OLD CSS
		25	8	200	OLD CSS
08	TADKESHWAR	25	20	500	All TC/ Pump Panel
09	SHIVRAJPUR	Not Applicable			
10	KADIPANI	25	5	125	Substation
11	GADHSHISHA	Not Applicable			
12	BHATIA	Not Applicable			

10) DEPARTMENTAL VEHICLES/MACHINERIES:

All Project & Head Office

Sr. No.	PROJECT	Types of Vehicles/Machineries	Make/Model	Application/Location
01	HEAD OFFICE	Toyota Innova (11 Nos)	Toyota	Office Use
		Tata Indigo (07 Nos)	Tata	
		MatutiCiaz (01 Nos)	Maruti	
		Toyota Etios (02 Nos)	Toyota	
02	MATANOMADH	Backhoe loader Sr. no-05	Tata JD TATA 315V	Various work of CSR
		Maintenancevan	TATA LPT1109	DG sets diesel filling and various Maint.
		Firevan	AL 1616 II	For outside fire related work.
		Water tanker 10 KL	AL CG 1616	ADM office, Dept. offices and csr water supply
		Water tanker 10 KL	AL CG 1616	ADM office and csr water supply
		Washing tanker 8 KL	AL CG 1616	Sanitisation at 59eyland location and CSR
		Jeep	Mahindra Bolero	For GM (project) Mine inspection
		Jeep	Chervolette Tavera	For GM (project)
		Ambulance (GVT)	Force Tempo traveller	For CSR activities
03	UMARSAR	Water Tanker 8 KL	Ashok Leyland/1616 IL	For plantation and other departmental use
		Water Tanker 8 KL	Ashok Leyland/ 1618 IL	Transportation of Sweet Water to office buildings
		Dumper 16 MT	Ashok Leyland/ U-2523	For plantation purpose
		Diesel Tanker	TATA/ LPT 1109	For diesel filling in departmental machineries
		Tempo	TATA/ LPT 909	For transportation purpose and plantation dept.
		Maintenance Van	Ashok Leyland/ 1618IL	For maintenance/ repairing of departmental machineries
		Fire Van	Ashok Leyland/ 1616 IL	Vital & Emergency purpose
		Ambulance	Force Traveller	Vital & Emergency purpose
		Backhoe loader	Terex/ EXC TLB 740S	For plantation and works not included in contractor's scope
		Hydraulic Excavator	TATA Hitach/ EX 200 LC	For plantation and works not included in contractor's scope
		Light Vehicle	Chevrolette/ 2013	For GM (P)
		Ambulance (under CSR)	Force Traveller	For CSR purposes only
04	ATPS	Not Applicable		
05	PANANDHRO	Truck	TATA/2019	Departmental Transportation
06	BHAVNAGAR	EXCAVATOR	BEML BE 300	MINES, PLANTETION & SURFACE WORK
		EXCAVATOR	HYUNDAI- 210	MINES, PLANTETION &



			SURFACE WORK	
		EXCAVATOR	HYUNDAI-340	MINES, PLANTATION & SURFACE WORK
		DOZER	BEML BD-65	ANCILERY, ROAD WORK
		MOTOR GRADER	BEML BG-605	ANCILERY, ROAD WORK
		TEREX LOADER GJ04BR 0038	TEREX TLB 7405	PLANTATION & MISCELLANEOUS WORK.
		DUMPER -36	BEML BH 35-2	OB & LIG. SHIFTING WORK
		DUMPER – GJ12N 9794	BEML BH 35-2	OB & LIG SHIFTING WORK
		HYVA DUMPER- 5 – GJ6VV 5076	TATA – 2516	OB & LIG. SHIFTING WORK
		HYVA DUMPER- 9 – GJ6VV 5083	TATA 2516	OB & LIG SHIFTING WORK
		FIRE VAN- GJ4X 5701	AL CG 1613	EMERGENCY VEHICLE
		FIRE VAN – GJ04GA 0822	AL 1618/1C	EMERGENCY VEHICLE
		MAINTENANCE VAN – GJ04GA 0330	TATA LPT- 1109	DEPT. M/C MAINT & DIESEL FEELING.
		WATER TANKER – GJ04GA 0332	AL 1616	PLANTATION & WATER SPREYING WORK
		WATER TANKER – GJ04GA 0966	AL 1618/1C	PLANTATION & WATER SPREYING WORK
		TRUCK – GJ4G 4934	TATA LPT- 909	MATERIAL & HOUSE HOLD SHIFTING.
		AMBULANCE – GJ4V 7999	TATA- 407	EMERGENCY VEHICLE
		AMBULANCE – GJ04GA 0262	FORCE 3350 /BS4	EMERGENCY VEHICLE
		AMBULANCE – GJ04GA 0797	FORCE 3350/ BS4	WORKING WITH GVT
		TAVERA – GJ4G 1444	CHEVROLET TCDi	WITH GM(P)
07	RAJPARDI	Hitachi (02 Nos)	Tata Hitachi EX 200 LC	Mining operation –Deptt
		Truck (01 No)	Tata 909	Deptt.Work
		Ambulance (01 No)	Tata 407	Mine Office
		Hyva (02 No)	Tata 2516	Deptt.Work
08	TADKESHWAR	Excavator (7 Nos.)	SANY -800HD/2020	Contractor machinery
		Excavator (1 No)	KOBELCO-220/2020	Contractor machinery
		Excavator (1 No)	KOBELCO-380/2020	Contractor machinery
		Excavator (4 Nos.)	KOBELCO-520/2020	Contractor machinery
		Excavator (6 Nos.)	KOBELCO-850/2020	Contractor machinery
		Bracker (1 No)	VOLVO-460-12/2020	Contractor machinery
			SANTUI-DH 17B2/2020	Contractor machinery
		Dozer (9 Nos.)	SANY/2020	Contractor machinery
		Grader (4 Nos.)	SANY 90/2020	Contractor machinery
		Dumper (56 Nos.)	BHARAT BENZ/2523 R/2018	Contractor machinery
		Dumper (4 Nos.)	BHARAT BENZ/2523 R2020	contractor vehicle
		Water tanker (5 Nos.)	BHARAT BENZ/2523	contractor vehicle
		Service van (1 No)	BHARAT BENZ/2523	contractor vehicle



			R/2020	
		Staff Bus (2 Nos.)	Eicher/2020	contractor vehicle
		Staff Bus (1 No)	Tata /2020	contractor vehicle
		Riper (2 Nos.)	SANY sy800 h/2020	Contractor machinery
		Graber (1 No)	Cat 320/2020	Contractor machinery
		Excavator	Hyundai R210/2010	Departmental machinery
		Loader backhoe	L&T 851/2010	Departmental machinery
		M.van	Tata 709/2009	Departmental transportation
		Fire tender	Ashok 61eyland/1618/2019	Departmental transportation
		Water tanker	Ashok 61eyland/1613/2009	Departmental transportation
		Jeep	Tavera NEO /2015	Departmental transportation
		Jeep	MAHENDRA& MAHENDRA/2014	Departmental transportation
		Jeep	MAHENDRA& MAHENDRA/2014	Departmental transportation
09	SHIVRAJPUR	BEML EXCAVATOR 1.0 CU.M PROJ SR.NO 1	BEML BE220/2012	Departmental DISPATCH WORK MINES
		BEML EXCAVATOR 1.0 CU.M PROJ SR.NO 2	BEML BE 220/2013	Departmental DISPATCH WORK MINES
		WATER TANKER 09 KL	ASHOK LEYLAND 1613/2010	WATER SPRAYING WORK IN MINES
		WATER TANKER 09 KL	ASHOK LEYLAND 1613/2014	PLANATATION WORK IN MINES
		JEEP BOLERO	M & M/2008	MINES USE
		JEEP BOLERO UTILITY	M & M/2008	WORK SHOP USE
		TAVERA	CHEVROLET/2015	G.M.PROJECT
10	KADIPANI	Truck	Ashok ley/2004	Departmental transportation
		Ambulance	Tata 407/2010	Departmental transportation
		Ambulance	Tata 407/2010	Departmental transportation
		BEML Loader	BEML/2009	Departmental transportation
		JCB	Tata/2007	Departmental transportation
		Water Tanker	Leylond/2009	Departmental transportation
		Cut Body-Jeep	Mahendra/2009	Departmental transportation
		Tata Tipper	Tata/1210/1994	Departmental transportation
		Explosive van	Tata-1210	Departmental transportation
		Tractor	Hindustan	Departmental transportation
		Crain	Del/10 tonne	Departmental transportation
		Dozer	Cat/D6H	Departmental transportation
11	GADHSHISHA	TEMPO(MINI TRUCK)	TATA/2013	PLANT WORKSHOP
		TAVERA	CHEVROLATE/2007	COLONY
		TAVERA	CHEVROLATE/2013	PLANT/COLONY
		MINI BUS	TATA/2014	PLANT/COLONY
		3 SEATER EXPLOSIVE VAN	M&M/2009	PLANT WORKSHOP
		2 SEATER EXPLOSIVE VAN	M&M/2014	PLANT WORKSHOP
		5 SEATER EXPLOSIVE	M&M/2008	PLANT WORKSHOP

		VAN		
		UTILITY	M&M/	FOR ATTENDING STREET LIGHTING AND SOLAR LIGHTING MAINTENANCE
		AMBULANCE	FORCE/2015	COLONY
		AMBULANCE	FORCE/2015	PLANT
		LOADER	TEREX/2015	MINES
		AMBULANCE	FORCE/2017	COLONY(TAPAAS VAN)
12	BHATIA	Explosive Van G10G0948	Mahindra Bolero Plus 2WD AC BS2	Explosive and Other
		Tavera GJ10G0862	Tavera B3 10 Chevrolet	Breakdown scrap procedure
		Tavera GJ10G1021	Tavera BS II Chevrolet	Project

11) AIR COMPRESSOR/CHILLER COMPRESSOR ETC.:

All Project & Head Office

Sr. No.	Project	Type of Compressor/Model	Motor Rating(KW)	Application/Location
01	HEAD OFFICE	NA		
02	MATANOMADH	Compressor	37.5 KW	Tyre Air filling
		Welding m/c	5 KVA	work shop
		Grinder	0.550 KW	Work shop
		Diesel pump	0.750 KW	Diesel pump
		RO plant	0.200 KW (5 nos)	Gate-1, T/O, Canteen, Adm. Office & colony
		furnace	5.5 KW	Laboratory
		Furnace	1.6 KW	Laboratory
03	UMARSAR	Horizontal type (220 ltrs tank Cap.)	7.5 KW	In Maintenance van for general cleaning and maintenance purpose for departmental machineries.
04	ATPS	Not Applicable		
05	PANANDHRO	Not Applicable		
06	BHAVNAGAR	Not Applicable		
07	RAJPARDI	Air Compressor/TS 10LB-12/ELGI	7.5	Workshop
08	TADKESHWAR	Air Compressor Elgi/EG 11-13	11 KW	contractor Machinery
		Air Compressor Elgi/EG 11-13	11 KW	contractor Machinery
09	SHIVRAJPUR	12.5 HP Air Compressor/2008	9 KW	Workshop Use
		LG Car Washing Unit	2 KW	Workshop Use
10	KADIPANI	Air Compressor 15 HP	10 KW	Workshop
11	GADHSHISHA	Air Compressor	04	For Air Cleaning of Vehicle
12	BHATIA	Not Applicable		



12) AIR CONDITION/WATER COOLER/REFRIGERATION ETC.:

All Project & Head Office

Sr. No.	PROJECT	Type of AC: Split/Window/Central	Capacity in Ton	Qty	Total Capacity in Ton/watt	BEE star rating	Location
01	HEAD OFFICE	Package AC	10	1	10		Banquette Hall
		Package AC	5	1	5		Banquette Hall
		Split AC	2	5	10		COB
		Split AC	1.5	5	7.5		COB
		Window AC	1.5	3	4.5		COB
02	MATANOMADH	Split AC	1.5 (1800 Watt)	18	27 (32400 Watt)		Adm. Building, Store, Dispensary, CCTV, Security Officer, SIC room & Colony in VTC
		Split AC	2.5 (1800 Watt)	4	10 (7200 Watt)		GM(P), Conference room, CCTV, IT room
		Water cooler	370 Watt	5	1850 Watt		Gate-1, Canteen, Adm.Office, T/O & colony gate
		Refrigerator	370 Watt	2	740 Watt		Adm. Office & Dispensary
03	UMARSAR	Split AC	1.5	5	7.5	3	Admin Office
		Split AC	1	6	6	3	Admin Office, VTC Dispensary
04	ATPS	Split AC	2	47	94	3	VIP, Hospital
05	PANANDHRO	SPLIT	1.5	24	36	3&4	
		WINDOW	1.5	19	28.5	3	
		WATER COOLER	80 LTR	2	160 LTR	3	ADM & HOS
		WATER COOLER	150 LTR	7	150 LTR	3	COLONY & MINES
		WATER COOLER	370	1	370	3	MINES CANTEEN
06	BHAVNAGAR	Split AC	1.5	14	21	3	ADM/VTC
07	RAJPARDI	Split	1.5-2.0 ton	09	13.5	-	Guest House/GVTC
		Split	1.5 ton	01	1.5	3	Safety Officer
		Split	1.5Ton	06	9		GM/CCTV Room/VTC/PROD/WB/Time Office
08	TADKESHWAR	Split	1.5 Ton	10	15	3 star	Office, Server room, conference room, CCTV control Room
		Water cooler	300 L	3	900 Ltr	-	ADM/Time office /W/B
		RO plant	250 L/H	3	750 Ltr	-	ADM/Time office /W/B
		Refrigerator	280 L	2	560 Ltr	3 star	ADM/Guest House
09	SHIVRAJPUR	Voltas Split AC	1.5	1	1.5		GM Project



		Voltas Split AC	1.5	1	1.5		Weighbridge
10	KADIPANI	Split	1.5	15	22.5		ADM Office & Guest House
		Window	1.5	11	16.5		ADM Office & Guest House
11	GADHSHISHA	SPLIT	1	2	2	5 star	G.M. SIR OFFICE
		SPLIT	2	2	4	3 star	ADMN. CONFERENCE HALL
		SPLIT	1	6	6	5 star	V.T.C.
		SPLIT	1	2	2	3 star	V.I.P. GUEST HOUSE
		SPLIT	2	2	4	N.A.	V.I.P. GUEST HOUSE DINING
		SPLIT	1	1	1	N.A.	WANDH MINE WEIGH BRIDGE OFFICE
		SPLIT	1	1	1	N.A.	RATADIYA MINE WEIGH BRIDGE OFFICE
		SPLIT	1	1	1	N.A.	DABAN MINE WEIGH BRIDGE OFFICE
12	BHATIA	Split A.C. Voltas	1.5	1	1.5	3	Project Office
		Split A.C Voltas	1	1	1	3	Weigh Bridge (Breakdown)
		Split AC	1.5	1	1.5	3	Old W/B (Breakdown)

13) AIR HANDLING UNIT.:

Sr. No.	Project	System	AHU type/Model	Rating in TR	Qty	Total TR	Total Rating in HP	Application	Location
1	HEAD OFFICE	System-1	ETU-150H	24	1	24	22	Auditorium and passage	Ground Floor
			ETU-150H	24	1	24		Auditorium and passage	Ground Floor
		System-2	ETU-150H	20	1	20	22	Common area	4 th floor & Ground floor
			AHU type FCU	2	2	4			
		System-3	ETU-150H	40	1	40	44	Common Area	5 th Floor
			ETU-180H	24	1	24			
		System-4	ETU-180H	20	1	20	26	Common Area	6 th Floor
		System-5	AM056FNMD (Concealed)	1.5	14	21	52	"A" Wing	7 th Floor
			AM071FNMD (Concealed)	2.0	15	30			
System-	AM056FNMD	1.5	8	12	74	"B" Wing	7 th Floor		

		6	ncealed)						
			AM071FNMD (Concealed)	2	1	2			
			AM056FNMD ncealed)	1.5	7	10.5			8 th Floor
			AM071FNMD (Concealed)	2	7	14			
			ETU-030H (A TR)	8	3	24			
			ETU-040H (A TR)	10	1	10			
			TOTAL LOAD 271.5 TR/ 284 HP				271.5	284	
2	MATANOMADH		Not Applicable						
3	UMARSAR		Not Applicable						
4	ATPS		Not Applicable						
5	PANANDHRO		Not Applicable						
6	BHAVNAGAR		Not Applicable						
7	RAJPARDI		Not Applicable						
8	TADKESHWAR		Not Applicable						
9	SHIVRAJPUR		Not Applicable						
10	KADIPANI		Not Applicable						
11	GADHSHISHA		Not Applicable						
12	BHATIA		Not Applicable						

FORM – PA

CHECK LIST OF DOCUMENTS ENCLOSED WITH RFP
TECHNICAL BID

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

PRICE BID

1	Online Price bid submission in Form PP	Yes / No
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FORM – PB
STATUS OF THE BIDDER

Particulars	Details
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 RFP	
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.	

FORM PD
Declaration

(On letter head of the Bidder)

DATE:

To,
The General Manager (Power),
Gujarat Mineral Development GMDC Ltd.,
“Khanij Bhavan”, 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 bidder/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 RFP No. _____.
3. We have accepted all the terms and conditions, including Annexure, Corrigendum if any, as specified in the RFP 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 bidder/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 RFP for the work _____
against RFP No. _____
2. None of the Partners/Directors of our bidder/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 RFP is complete, correct and true.
4. All documents/credentials submitted along with this RFP 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 RFP will be rejected, earnest money deposited by us will be forfeited and we will be debarred from participating in further/future GMDC tenders/RFP 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.
Khanij Bhavan
132' Ring Road, University Ground,
Vastrapur,
Ahmedabad.

Dear Sir,

We M/s. ----- hereby undertake that, we shall at all times, indemnify and keep indemnified that GMDC Limited from any and all liability for damages resulting from or arising out of or in any way connected with the operations covered by the RFP 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 RFP 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/RFP, 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 RFP 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 RFP 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

Form PP

Format of Price Bid

(To be submitted only online)

Sr. No	Particulars	Rate in Rs. Excluding GST
1	Total cost as per scope given in this RFP documents.	

Form BB

Format of Technical Bid

(To be submitted only online)

Sr. No.	Particulars	Remark	Bidders shall provide the details
1	Bidder Existence as on 31 st March 2021 in completed years	Date of incorporation and numbers of years completed up to 31 st March 2021. Submit copy of incorporation /any other evidence in physical form.	
2	Bidder Turn Over in Lakhs for the FY 2019-2020.	In Rupees.	
3	Bidder's Experience in Completing similar assignment of Energy Auditing in Last 7 Years which are under operation/execution	Name of Customer(s), Order issued date , Total	
4	Proposed methodology and approach outlining a clear presentation and strong conceptual and analytical skills.	Documents	



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/CMessrs..... (Name of Bidder)

Date of Expiry.....

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

Invitation For RFPNo.....Dated (bidding document)

For(Name of Facilities)

Subject: Earnest Money Deposit Bank Guarantee.

Date20

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 RFPNo.

_____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 be 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 onus.
- 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 upto _____(Date).
- (III) We are liable to pay the guarantee amount or any part thereof under this bank Guarantee only and only if you serve up on 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)