

e-Tender – GMDC/ENV/03/2017-18

**e-Tender
for**

Construction of Piezometers/Tube Wells, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two nos. ground water leveling instrument AND one time ground water level / Quality measurement of water sample collected from the same wells.



**CHIEF GENERAL MANAGER
GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED
(A Govt. of Gujarat Enterprise)
CIN: L14100GJ1963SGC001206
KHANIJ BHAVAN, 132' RING ROAD, UNIVERSITY GROUND
VASTRAPUR, AHMEDABAD- 380 052
Phone No. 07927913200
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Visit our web-site: www.gmdcltd.com**



e-Tender No. – GMDC/ENV/03/2017-18

Work Description	:	Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water leveling instrument AND one time ground water level / Quality measurement of water sample collected from the same wells.
Place of work	:	Mata no Madh Lignite Mines, village Mata no Madh, Taluka Lakhat, District Kutch.
e-Tender Fee		Rs. 1000/- (One Thousand) by D.D. – (Non Refundable) DD should be from banks approved by Govt. of Gujarat from time to time (except co-operative bank) in the form and manner acceptable to the GMDC.
Estimated Cost		Rs. 36.77 Lakhs
EMD		Rs. 1,10,300/- (Rs. One Lakhs Ten Thousand Three Hundred only) by D.D. – Refundable From the banks approved by Govt. of Gujarat from time to time (except co-operative banks) in the form and manner acceptable to the GMDC.
Security Deposit		5 % of contract value (including EMD) in form of D.D. from the banks approved by Govt. of Gujarat from time to time (except co-operative bank) in the form and manner acceptable to the GMDC.
Last date and time of downloading the e-Tender.	:	28 February 2018 – 15:00 Hrs.

Last date and time of online submission of bid.	:	28 February 2018– 15:00 Hrs.
Last date & time of submission of e-Tender fees, EMD and all necessary supporting documents in hard copy.	:	28 February 2018– 15:00 Hrs.
Date & time for on-line opening and viewing of preliminary bid.	:	01 March 2018– 12:00 Hrs.
Date & time for on-line opening of technical bid.	:	01 March 2018 – 12:05 Hrs.
Date & time for on-line opening of price bid.	:	01 March 2018– 15:00 Hrs.
Validity of Bid.	:	180 Days from the date of opening of e-Tender.
Place of opening	:	Office of the Chief General Manager – GMDC, Ahmedabad.

Note: GMDC reserves the right to accept and / or reject any tender or split the work between two or more bidders.

Disclaimer

*Gujarat Mineral Development Corporation Limited (GMDC) has prepared this document to invite Participant to submit e-Tender response for **“Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water monitoring /observation at Mata no Madh Lignite Mine, Kutch And providing two ground water leveling instruments for one time ground water level measurement and also one time water quality measurement of water sample collected from the same Piezometes/ Wells”** in the State of Gujarat, India.*

While GMDC has taken due care in the preparation of information contained herein, neither GMDC, its staff or its advisors providing assistance to GMDC gives any warranty or makes any representations, express or implied, as to the completeness for purpose or accuracy of the information contained in this document or any information which may be provided in connection therewith.

The information contained herein is not intended to be exhaustive. Interested parties are required to make their own enquiries and respondents must, confirm in writing that they have done so and that they do not rely only on the information provided in the e-Tender document in submitting their response. The information is provided on the basis that it is non-binding on GMDC, its staff and its advisors providing assistance to GMDC. GMDC reserves the right not to proceed with the initiative as well as the right not to discuss the initiative further with any respondent.

No reimbursement of costs or expenses of any type whatsoever will be paid to respondents or any other persons, or entities expressing interest in the initiative for purpose of submitting a tender response and to this end, no respondent shall have a claim against GMDC, its staff or its advisors providing assistance to GMDC, arising out of any matter relating to this tender document of any nature whatsoever whether or not any circumstances arising as a result of, such claim is based on any act or omission by GMDC, its staff or its advisors providing assistance to GMDC whatsoever and/or the content of this e-Tender.

GENERAL INSTRUCTIONS TO THE BIDDERS FOR e-TENDER:

1.0 e-Tender

1.1 THE e-TENDER & THE OFFER:

a) It is a three-bid system. The bid is required to be submitted online latest by the date and time prescribed in the e-Tender notice.

Part – I Preliminary Bid

Original Cheques / Drafts of **e-Tender fee and EMD** should be submitted before last date on above given address in two separate and sealed envelopes along with their respective forms. These both envelopes should be placed in a separate and sealed cover sub-scribed **“PRELIMINARY BID”, e-Tender No. and Name of work.**

Bids received without EMD / e-Tender Fee will not be considered for scrutiny and will be out rightly rejected.

Part - II Technical bid (Annexure I to V)

Technical bid documents i.e. various annexure are to be submitted offline only within stipulated period as per e-Tender notice along with supporting documents required in support of these annexure like experience, financial position, status of the bidder, list of equipments owned by the bidders, copy of Permanent Account Number (PAN), GST No. etc. in separate & sealed cover sub-scribed **“TECHNICAL BID, e-Tender No. and Name of work etc.**

Part – III Price-bid (Annexure V)

To be submitted online only.

Bidder should submit DD's of tender fee & EMD in one sealed envelope and supporting documents for technical bids in another one sealed envelope, further both these envelopes must placed in single one sealed envelope mentioning e-Tender No. and Subject. Bid received after last date shall be rejected and not considered for further evaluation.

All supporting documents along with e-Tender fee and EMD must reach till last date on below given address:

Chief General Manager
Gujarat Mineral Development Corporation Limited
“Khanij Bhavan”, 132 ft Ring Road, Nr. University Ground,
Vastrapur, Ahmedabad – 380 052

1.2 Bidders are advised to read the instructions, evaluation norms and other terms and conditions described in these documents under different Chapters carefully before making their offer. In case of any doubt they may seek clarification from Manager (Environment) at the head office of the GMDC at Ahmedabad.

1.3 Opening of bids

First Preliminary bids will be opened for the verification of the receipt of e-Tender fee and EMD along with their respective forms.

Online Technical bid and supporting documents of only those bidders will be opened whom e-Tender fee and EMD will be received. Then Technical bid will be opened to verify that bidder is technically qualified or not for the desired work.

Online Price Bid will be opened only of those bidders who will observe technically qualified.

1.4 Bidders are advised to read the instructions, evaluation norms and other terms and conditions described in these documents under different Chapters carefully before making their offer. In case of any doubt they may seek clarification from Manager (Environment) at the head office of the GMDC at Ahmedabad

1.5 Corrigendum:

Bidders are requested to check the GMDC website <https://www.gmdcltd.com> &/or <https://gmdc.nprocure.com> from time to time to ensure that they have not missed any corrigendum uploaded against the said e-Tender after downloading the e-Tender document. The responsibility of downloading the related corrigendum, if any, will be that of the downloading parties.

No separate intimation in respect of corrigendum will be sent to Bidders who down loaded the e-Tender document from the website as information in this respect will be available to website i.e. <https://www.gmdcltd.com> &/or <https://gmdc.nprocure.com> etc.

2.0 Preamble

2.1 This e-Tender document is intended to give a general description of nature of the work. It is not intended to cover all minute details. The work shall be executed in accordance with best practices and to the complete satisfaction of the GMDC.

2.2 The information given in this e-Tender document is given in good faith and meant to serve as a guide to enable the prospective bidders to submit their offer. It is, imperative that the Bidder shall obtain and examine, for himself, all the data, information and particulars required for the satisfactory execution of the work covered under the scope of e-Tender.

2.3 Price bid will not be opened unless Preliminary & Technical Bids opening procedure has completed in all respects and bidder is found to have adequate experience and resources for executing the Work. **The price bid of only technically successful bidders will be opened.**

2.4 The e-Tender document and forms referred to in the e-Tender, if not returned or if returned but not duly filled in (where required) and signed, will result in rejection of the e-Tender.

3.0 Examination

3.1 The Bidder would carefully examine the e-Tender document including all amendments/addendum and corrigendum, if issued, and other details relating to the work and acquaint him fully with all the conditions and matters therein, which may, in any manner, affect the work and the cost thereof.

3.2 The Bidder would obtained all information as to risks, contingencies, responsibilities and other circumstances which might influence or affect his e-Tender, the progress and performance of the contract and to have taken into account all conditions and matters that may affect his works under this e-Tender and cost thereof.

3.3 The Bidder would be deemed to have visited the project site and its surroundings, carefully examined and satisfied himself about the existing site conditions, availability of local facilities, means of transport etc. and to have quoted rates, taking into consideration all such conditions and matters, which may, in any manner, affect the work and the cost thereof.

3.4 The Bidder would be acquainted himself with all Government, Mining and Labour laws, statutes, regulations, rules or notifications relating to taxes, levies and other charges relating to the work at the site or otherwise as applicable from time to time.

3.5 Any neglect or omission or failure on the part of the Bidder in obtaining necessary and reliable information upon the foregoing or any other matter affecting the e-Tender, shall not absolve him of any risk or liabilities or responsibilities for completion of the entire work in accordance with the terms and conditions of the e-Tender document.

4.0 Any conditional e-Tender will be rejected outright and no claim whatsoever in respect thereof shall be entertained. The Management of GMDC reserves the right to reject / cancel any or all e-Tenders without assigning reasons and to negotiate with any Bidder for more favourable rates. Each and every page of the e-Tender document along with bids supporting documents shall be signed by the Bidder with his usual signature. All signatures should be dated and Company's seal shall be affixed below it.

5.0 GMDC may, at its discretion, extend the deadline for the submission of the bids.

6.0 Bidder shall bear all costs associated with the preparation and submission of its bid, and the GMDC will in no case be responsible or liable for these costs or postal delay.

7.0 Bids with joint venture agencies will be accepted.

8.0 Applicable GST as per rates and rules shall be reimbursed as per prevailing rules. TDS will be deducted from the bills as per prescribed rule.

9.0 Validity of the offer: The bidder should agree that the rate submitted shall remain valid for a period of 180 days from the date of the opening of the e-Tender.

Application expressing interest by the Bidders:

Date:

To,

**Chief General Manager
Gujarat Mineral Development Corporation Limited,
“Khanij Bhavan”, 6th floor, “A” wing”, 132 ft. Ring road,
Nr. University Ground, Vastrapur, Ahmedabad – 380 052**

e-Tender No. – GMDC/ENV/03/2017-18

Subject: Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water levelling instruments AND one time ground water level / Quality measurement of water sample collected from the same wells.

Sir,

I/We are interested in participating in the above e-tender for **Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water leveling instruments AND one time ground water level / Quality measurement of water sample collected from the same wells.**

I/We and / or our partners have adequate experience in this field and have adequate infrastructure, equipments, laboratory facilities and funding at our end to execute the work. I/We have sound financial position to fulfill any additional requirement if required to carry out the work to the entire satisfaction of the GMDC as well as for regulatory agencies. I/We shall make our own arrangement for the completion of subjected work.

Thanking you.

Yours faithfully,

[Authorized Signatory, Stamp]

On Bidders Letter Head

FROM:

LETTER NO.:

DATE:

To,
Gujarat Mineral Development Corporation Ltd.,
Khanij Bhavan, 132 Ft. Ring Road,
Near University Ground, Vastrapur,
Ahmedabad – 380 052, Gujarat.

Sub. : Tender Fee for e-Tender No. **GMDC/ENV/03/2017-18** for the e-tender for **Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water levelling instruments AND one time ground water level / Quality measurement of water sample collected from the same wells.**

Dear Sir,

With reference to above, and as per terms & conditions of e-Tender, we are sending herewith DD / No. _____ Dated _____ Name of the Bank and Branch, _____ for Rs. 1000/- [Rs. One Thousand Only] is being the amount of e-Tender fee.

Thanking you,

Yours faithfully,

Name / Signature & Stamp

On Bidders Letter Head

FROM:

LETTER NO.:

DATE:

To,
Gujarat Mineral Development Corporation Ltd.,
Khanij Bhavan, 132 Ft. Ring Road,
Near University Ground, Vastrapur,
Ahmedabad – 380 052, Gujarat.

Sub. : EMD for e-Tender No. for **GMDC/ENV/03/2017-18** for **Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water leveling instruments AND one time ground water level / Quality measurement of water sample collected from the same wells.**

Dear Sir,

With reference to above, and as per terms & conditions of e-Tender, we are sending herewith D.D. / No. _____ Dated _____ Name of the Bank and Branch, _____ for Rs. 1,10,300/- (Rs. One Lakh Ten Thousand Three Hundred only) by D.D. is being the amount of EMD.

Thanking you,

Yours faithfully,

Name / Signature & Stamp

Gujarat Mineral Development Corporation Limited,
“Khanij Bhavan”, 132 ft. Ring road, Nr. University Ground, Vastrapur, Ahmedabad – 380 052

1.0 Notice Invitation to Bidder:

Gujarat Mineral Development Corporation Ltd. (GMDC) invites bids from reputed financially and technically sound and experienced agency for the “Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water leveling instruments AND one time ground water level / Quality measurement of water sample collected from the same wells”. Following is the scope:

e-Tender No.	GMDC/ENV/03/2017-18
Description of work.	Expression of Interest is Invited for selection of agency for “Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water leveling instruments AND one time ground water level / Quality measurement of water sample collected from the same wells”.
Experience to participate.	<ol style="list-style-type: none"> 1. Bidder must have 08 years of experience in similar type of work. 2. Bidder must have completed at least 2 similar types of work. 3. Bidder should have professionally qualified and experienced Hydro Geologist having at least 10 years of experience. 4. Bidder should have adequate experienced Technical Staff, appropriate capacity of pump, accessories and generator for conducting pumping set. 5. Site visit is compulsory before the submission of bid as well as bidder has to submit the documentary proof of site visit having signature and stamps of bidder as well as tenderer along with technical document of bid.

2.0 Scope of Work:

Annexure –I

III Technical Specifications and Requirements:

Sr. No.	Latitude and Longitude of Recommended Site	VES No.	Total Depth to be drilled in Meters	Size of T/W in mm	Drilling Equipment	Remark
1	28 ⁰ 31'25.3" 68 ⁰ 58'28.5"	1	90	152	Combination Rig (DR and DTH)	Bore hole logging require
2	23 ⁰ 30'40.7" 68 ⁰ 58'46.3"	2	90	152	Combination Rig (DR and DTH)	Bore hole logging require
3	32 ⁰ 29'19.7" 68 ⁰ 57'24.9"	3	90	152	Combination Rig (DR and DTH)	Bore hole logging require
4	23 ⁰ 31'11" 68 ⁰ 56'11.1"	4	90	152	Combination Rig (DR and DTH)	Bore hole logging require

5	23 ⁰ 30'49.1" 68 ⁰ 56'28.6"	5	90	152	Combination Rig (DR and DTH)	Bore hole logging require
6	Casing of Rigid PVC Pipe confirming to BIS Code for its use in Piezometer / tube wells like of Finolex, Jain Irrigation, Aashirwad or Dutron etc.					
7	Clay & Gravel Packing per well for aquifer isolation					
8	Well Development & Cleaning					
9	Resistivity Survey for Aquifer delineation.					
10	Electro logging per well.					
11	Construction of Concrete Platform & Standard Safety Capping with SS Flange & Allen keys per well.					
12	Qualitative Analysis of 5 water samples (1 sample from each well).					

Note: The total depth of the wells is proposed on the basis of geo-electrical resistivity survey and surrounding tube wells data. Hence the tube wells are to be drilled to the optimum available alluvial and excavated weathered rock formation. And wherever the slotted pipe and gravel required it can be technically full filled for good yield and for the long life of the Piezometer. Price per well will be given on actual depth of wells drilled either decreased or increased.

III Preamble:

The bidder shall be fully responsible to drill Five Piezometer /Tube well at **Mata no Madh Lignite Mining Site, Taluka Lakhpat, District Kutch**. The bidder shall undertake a pump test and determine aquifer parameter of each Piezometers/Tube Wells by installing pumps of appropriate capacity with suitable electrical system, piping and flow meter etc. as described under the scope of services Piezometer/Tube Well system and to include all accessories required.

It is compulsory that interested bidder should personally visit the project site to study and understand the actual site conditions and site visit report must be submitted along with supporting documents of technical bid. This site visit report should mention date of site visit, Name and address of authorized person as well agency visited to site along with the details of representative of GMDC coordinating with them along with their signature. Bids received without this site visit report shall not be considered as well as out rightly rejected.

III] Drilling of New Piezometer/Tube Wells:

Five Piezometers/Tube Wells are to be drilled at the site where it is identified and shown by the in charge Site Engineer as per GWRDC Report. The Piezometers/Tube Wells shall be drilled in accordance with specification laid in the IS 2800 part 1 1991 and are narrated below:

Test Hole Drilling

The successful test hole/pilot hole drilled shall be taken up for conducting Electro Logging test to convert it into observation piezometers/Tube Wells be confined at the site indicated at site

having 150 mm diameter and varying depth between 90 to 95 m below ground level shall be drilled. Depth wise samples of sub-surface formation material encountered during drilling shall be collected and analyzed, to check the occurrence of permeable strata within the explored depth and its thickness.

Initially diameter of hole for Tube Well shall be 250 mm and the depth to be kept 90 to 95 m below ground level as per clearance without any damage to aquifer. On the completion of the pilot hole litho log shall be prepared.

Electro logging Test

On completion of the pilot hole, before enlarging the bore hole, Electro Logging Test should be conducted to identify likely zone to be screened and also for having some idea about likely water quality.

Based on the physical observation of aquifer material and Electro Logging Test results, corrected litho log shall have to be prepared so that productive aquifer zones are to be identified and well pipe assembly shall be recommended for providing screen pipe part. The slot size shall be selected based on the grain size distribution of aquifer material and thereafter pilot hole shall be enlarged

On completion of reaming (enlargement) of pilot hole, pipe assembly shall be lowered into the enlarged hole. The annular space between the hole and pipe shall be packed with pea size gravel from bottom of well up to the depth of recommended clay packing. For providing sanitary protection from the top of this gravel base up to ground level, a perfect clay packing with impervious clay shall be provided.

Thereafter the well should be developed using compressor of suitable capacity or any other suitable method used in well development.

Casing Pipes & Length

The unplasticized PVC Screen and Casing Pipe for Bore /Tube well according to IS CODE 12818.

Gravel Packing

All gravel to be, used as pack in tube well construction shall be as specified in IS 4097: 1967. The thickness of the gravel shroud around the screen shall generally be not less than 3 cm. In rotary method, the pipe assembly is lowered into position and gravel packing may be done up to a suitable depth below the bottom of the housing pipe in the first instance. Thereafter the gravel packing up to the required depth is completed after keeping the housing pipe vertical within limits to achieve uniform gravel packing around the pipe assembly inverted cones should be used. A provision for a well base to eliminate the possibilities of subsidence of the well structure may be incorporated. If the bottom of the well is in a soft formation, the well should be

provided with an artificial base for the casing and screen by over drilling the hole about 1 to 2 m and filling the extra depth with concrete or gravel.

Development of Piezometer/ Tube well:

The drilled well shall be developed by any of the methods specified in IS 2800: (part1) and IS 11189: 1985 depending upon the site conditions in order to get maximum sand free yield. The development process shall be continued until the stabilization of sand and gravel pack has taken place. The development shall be done to establish maximum rate of usable water yield without sand content. The development of the tube well by over pumping should be done at 15 percent to 25 percent higher discharge than the expected discharge from the tube well. The final discharge should be free from sand with a maximum tolerance of 20 parts of sand in one million parts of water by volume after 20 minutes of starting the pump.

The discharge in the Piezometer/Tube well shall be totally sand free. If the discharge is not sand free after 20 minutes of starting the pump, the well shall be redeveloped. In case the discharge is still not sand free even after re-development, the pump set of lesser discharge capacity may be installed to get sand free water.

After completion of development by over pumping, the well shall be tested for its performance that is yield characteristics and efficiency.

For conducting pumping out test, the Piezometer / Tube well should be fitted with submersible pump & motor of appropriate capacity.

For continuous power supply, Diesel Generator set of appropriate capacity must be used. Flow Meter method should be used for periodic discharge measurement of pumping well. The discharged water from the discharge pipe should be diverted at long distance in river/stream flow to avoid induce infiltration.

The electrical sounder and tapes should be used for measurement of water level. The time should be measured using Stop Watch.

The static water levels in the Piezometer/Tube well should be noted before starting the test. The time interval for water level observation and its measurement during pumping should be kept small initially and be increased as pumping period increased. Sufficient technical persons should be deployed for monitoring data at pumping well, observation well.

Recuperation Test

When the pump is stopped after running the pump out test, the draw down and time at which it was shut down are recorded. Measurement of water level is immediately initiated in the Piezometer /Tube Well. The same procedure and time pattern is followed as at the beginning of a pumping test. Within reasonable length of time original static water level may not be recuperate to original level. This test should be concluded when water level was recuperated almost 90 percent.

The data collected on discharge measurement, pumping water level and recuperation should be used for drawing different graphs for applying various applicable methods of analysis for estimating the hydraulic characteristics of aquifers like Transmissivity (T), Field Permeability(K), Specific Yield, Storage Coefficient (s'), Specific Capacity (Sp. Cap) Radius of Influence (R) etc.

The measurement of yield in the well shall be done by V notch method or any other approved method measuring static water level & draw down etc

During Pumping out Test Water Samples should be Collected and tested in NABL Accredited Laboratory Disinfection of tube well shall be done after completion of all the works. The rates includes hire charges for machineries required, labour charges for erection and operation of compressors, pump set, tools and all the accessories. After completion of test, the pump set used for the pumping test shall be removed from Piezometer /Tube well and all the sites shall be cleaned properly. The MS casing pipe of tube well shall be plugged by the MS cover plate or MS cap and the tube wells shall be protected until the pump is erected in tube well.

Disinfection

The well shall be disinfected after completion of test for yield. All the exterior parts of the pump coming in contact with the water shall be thoroughly cleaned and dusted with powdered chlorine compound.

Grouting and sealing of tube well shall be done, depending upon the site conditions and quality of the discharge of the strata encountered. To ensure that the grout will provide a satisfactory seal, it should be applied in one continuous operation. Sealing of the tube well may be done by grouting the annular space between bore and the housing pipe, thickness of grouting depending upon the quality of water. The grouting and sealing shall always be done to ensure safe sanitary conditions.

The depth to be grouted varies with geologic and site conditions but a depth of 3 to 4.5 m or the depth specified by the Engineer during construction from the surface is generally adequate.

Surface Apron

An apron around the well and sloping away from it protects the well from pollution caused by contaminated water flowing back into it and prevents muddy pools of standing water forming around

The housing pipe should be closed by a well cap for the period between the completions of the tube well and the installation of the pump set.

The following information shall be furnished by the drilling agency on completion of the tube well:

- Total depth of tube well drilled,

- Strata chart of the tube well indicating different type of soil formations met with at different depths and indicating the depth of each type of soil formation,
- Samples of strata collected, neatly packed and correctly marked in sample bays,
- Position of every joint in well assembly,
- Method used for development,
- Total hours of development done,
- Developed discharge in L.P.S.,
- Discharge is totally sand free or presence of sand particles is there,
- P.P.M. and turbidity after development,
- Pumping water level at developed discharge,
- Static water level.

[IV] Information to be furnished by Drilling Agency to Engineer on Completion of Piezometer /Tube well

1. Agency drilling the tube well.....
2. Location of the tube well.....
3. Method of drilling adopted.....
4. Date of starting.....-.....
5. Date of completion.....
6. Pilot hole or test hole..... Bit size.....
Bit typeHoursfrom.....
to.....
7. Coring done..... Bit size..... Bit
typeHoursRecovery.....
..... from... to.....
8. ReamingBit size.....
Bit type..... Hours... from.....
..... to... * :
9. Lithological data
.....
10. Total depth of tube well drilled
11. Assembly of production well... ..: Size.....
Length..... Type.....
Perforation per metre.....

Technical Specifications, - Works and O&M

- Housing pipe.....
Blind pipe.....
Strainer.....
Bail plug.....
12. Top of tube well above/below ground level.... _
 13. Size of gravel..... Quantity used before development..... Quantity used during development.....
 14. Method used for development.....

- Total hours of testing.....
15. Development discharge.....
16. Turbidity.....
17. Further details appended:
- a) Samples of strata, neatly packed in sample bags,
 - b) Chart of pipe assembly lowered, and
 - c) Results of mechanical analysis of samples of unconsolidated strata.
18. Remarks: Static Water level will be measured in the TW and recorded. The diameter of TW housing pipe and total depth of TW will be measured and recorded.
19. Allen Keys for opening of well lids – (3 Nos.).
20. Water Level Measuring Instruments as per Annexure II (2 Nos.).
21. Water Bailer (PVC) – 2 Nos.

[V] Others:

- Area for drilling is having soil as well as rock; therefore, bidder must have such type of equipments, like Rotary cum DTH Rig, feasible to work in soil as well as hard rock conditions.
- All tools and tackles with manpower and machinery will be in the scope of Bidder.
- Bidder shall responsible for any accident, failure, loss, damage etc during the work.
- Bidder shall take all statutory and regulatory approval, if required.

Annexure II

Technical Specification regarding Ground Water Level Measuring Instrument:

1. It must be a portable instrument that can be used for ground water level from well.
2. Measuring range up to 100 Meters depth.
3. For the measurement of ground water level, instrument should have sensor, which on touch of water should illuminate lamp along with audible buzzer.
4. Depth on cable should be in Meter & Centimeters.
5. Cable of polythene coated steel type with anti corrosive cores. Metric Scale for Meters & Centimeters must be with different and sharp colors.
6. Probe must be made of corrosive resistance material.
7. Cable Drum must be of Plastic and temperature resistant.
8. Power Supply – Battery Operated
9. Supporting frame should be made up of Aluminum.
10. Water resistant carrying case to be provided.
11. Warranty for at least one year.

3.0 General Scope:

- a) By GMDC at sites.
 - i. Showing the location.
 - ii. GMDC shall provide lodging and boarding on chargeable as applicable to GMDC guests but based on availability only as, when & wherever require.
- b) By bidder:
 - i. Bidder will carry out entire work in a manner to satisfy needs of the GMDC.

- ii Bidder will remain in contact with the General Manager as well as Officer-In-Charge of Environment at Project.
- iii. Bidder will abide by statutory regulations applicable at the project e.g. Mines Act, Factory Act and other related Law & Regulations etc.
- iv. Bidder will be responsible for:
 - Drilling and construction of Piezometer/ Tube Wells (5 nos.).
 - To provide portable water level Measuring device/ Instrument analyzers (2 nos.) as per technical specifications.
 - One time analysis of ground water samples (5 nos.) coming out from 5 drilled Piezometer /Tube Wells (1 Sample from each Piezometer /Tube Well well).

GMDC reserves the right to terminate this contract at any time without assigning any reason/s. On withdrawal of bidder work order before the contract period by the e-Tender, bidder will not make any query or complaint by any mean.

4.0 Location of the Site:

Mata no Madh Lignite Project, village Mata no Madh, Taluka Lakhpat, District Kutch (Gujarat).

5.0 Duration:

The period of contract shall be of 30 weeks from the date of issuance of work order.

6.0 Terms of Payment:

a) After reach of equipment and team at site & initiating work	10%
b) After completion of 1 well	20%
c) After completion of one 3 wells	20%
d) After completion of one 5 wells	20%
e) On receipt of measuring Piezometer /Tube Wells analyzer	20%
f) After submission of analysis report & drilling/piezometric informations	10%

The payment may be made at the earlier after submission of the invoice/bill after deducting Income tax (TDS) as applicable. All payments will be made by cheques / RTGS only.

7.0 Taxes, duties & levies and statutory obligations:

All applicable taxes and duties etc. towards Supply as well as Erection and commissioning shall be paid additional as per prevailing rules.

“GST will be paid / adjusted / reimbursed to the contractors upon submission of proof as per prevailing rates & rules to the extent directly related to the services rendered by the contractor under the said contract subject to production of documentary proof and party

will mention the GST amount separately in the invoice / bill after considering the abatement, if any.

Any other fresh imposition or variation in existing taxes or levies during the currency of the contract by the Govt. if applicable after submission of the bid and payable by the Contractor, shall be reimbursed by GMDC at actual subject to submission of documentary proof of having remitted the same and to the extent directly related to the services rendered by the Contractor under this contract. This shall be subject to submission of documentary proof clearly mentioning the name of work and respective RA Bill No.

TDS will be deducted from the bills as per prescribed rule.

8.0 e-TENDER FEE AND EARNEST MONEY DEPOSIT:

- (a) A non-interest bearing DD of e-Tender Fee of Rs. 1000/- (One Thousand only) and Earnest Money Deposit of Rs. 1,10,300/- (Rs. One Lakh Ten Thousand Three Hundred only) shall be submitted along with desired form provided with e-Tender in separate sealed cover super scribed “e-Tender / EMD Fee” in favour of GMDC Ltd. payable at Ahmedabad from banks approved by Govt. of Gujarat from time to time (except co-operative bank) in the form and manner acceptable to the GMDC. Any pending dues against invoice or any other deposit lying with the GMDC will not be adjusted against Earnest Money Deposit. Any bid submitted without Earnest Money shall be summarily rejected and no claim shall be entertained on such rejected bids.
- (b) The unsuccessful bidders will be refunded the only EMD amount by way of crossed cheque within 30 days but only after receipt of written request.
- (c) e-Tender Fee is non refundable and EMD of contractor will be refunded within 3 months after satisfactory completion of contract. Earnest Money will not bear any interest.
- (d) If the contractor does not accept the LOI / Work Order issued by G.M.D.C., then EMD amount paid by the contractor will be forfeited.

9.0 SECURITY DEPOSIT:

- (a) The contractor shall have to deposit Security Deposit @ 5% (including EMD) of the total contract value as per the requirement given in LOI on or before the receipt of work order by way of DD in favour of GMDC Ltd. payable at Ahmedabad from banks approved by Govt. of Gujarat from time to time (except co-operative bank) in the form and manner acceptable to the GMDC.
- (b) If the contractor does not pay Security Deposit or does not fulfil any of the terms & conditions of this e-Tender, Earnest Money Deposit paid by such bidder shall be liable to be forfeited by the GMDC.
- (c) Security Deposit paid by the contractor shall be liable to be forfeited by the GMDC, if he is not adhere to maintain the terms & conditions of the e-Tender.
- (d) Security Deposit paid will be refunded within 3 months after the completion of the work satisfactorily.
- (e) Security Deposit will not bear any interest.

10.0 NO RELAXATION OF EMD/SD.

No relaxation will be allowed for EMD / SD.

11.0 ACCEPTANCE OF LOI:

If the contractor does not accept the Letter of Intent issued by GMDC, the EMD paid by him will be forfeited.

The contractual work will be awarded to the technically and commercially qualified and responsive contractor, whose bid in conformity of the requirement of the specifications of the tender document. A responsive Bid is one which accepts all the terms and conditions of the specifications and tender documents without any major modifications. A major modification is one which affects in anyway the prices, quality, quantity or which limits in any way the responsibilities or liabilities of the Successful Bidder or any right of the e-Tender (GMDC).

12.0 LIQUIDATED DAMAGES:

Contractor shall be responsible for **“Drilling and Construction of piezometer /Tube Wells, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water level measuring instrument AND one time ground water / Quality measurement of water sample collected from all the five Piezometer /Tube well”**. as specified / described under the scope of work in given in tender document in accordance with sound and established practices, regulations applicable, for the purpose(s) specified, free from defects and suitable for respective uses intended. The cumulative limit of successful bidder’s liabilities under the e-Tender, for all guarantees or warranties of whatever nature, whether expressed or implied and all causes whatsoever including liquidated damages for delay and or non performance shall be limited to 5% of CONTRACT charges / remuneration.

13.0 ACCEPTANCE OF GENERAL TERMS & CONDITIONS:

The bidder should unconditionally accept all the terms and conditions of the e-tender by signing & stamping on each page of the technical bid document of the e-Tender including the annexure.

15.0 BLACK LISTING OF THE BIDDER:

The Bidder or its directors should not have been black listed by any Government Organization, or any litigation be pending against any of them. The bidder will submit declaration to this effect along with the technical bid. If at any time such declaration is found false, the bid will be rejected or if the contract work is already

awarded, it will be terminated forthwith without payment of any compensation and the EMD/SD will be forfeited.

16.0 NON FULL FILAMENT OF TERMS & CONDITIONS & TERMINATION OF THE CONTRACT:

If the Contractor fails to carry out the work as per terms and conditions of the contract to the satisfaction of GMDC, GMDC shall be entitled to terminate the contract and forfeit the EMD / Security Deposit paid by the contractor.

If required, for any reason, GMDC reserves right 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 to the Contractor without incurring any responsibility.

17.0 JURISDICTION:

The Court at Ahmedabad in Gujarat State only will have jurisdiction to deal with and decide any legal dispute or contravention between the parties hereto.

“Matter relating to any dispute or difference arising out of this e-Tender and subsequent contract shall be subject to the exclusive jurisdiction of Courts at Ahmedabad only”.

18.0 ARBITRATION:

The parties shall endeavour, in the instance, to resolve any dispute, disagreement or difference arising out of or in connection with this Agreement, including any question regarding its interpretation, performance, existence, validity, termination and the rights and liabilities of the Parties to this Agreement (a “Dispute”) through good faith negotiations.

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

19.0 FORCE MAJEURE:

- a) Force majeure is herein defined as any cause which is beyond the control of the your company 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:
 - i) Natural phenomena such as flood, draughts Cyclone, earthquake and epidemics, declaration of war.

- ii) Acts of any government, including but not limited to war, declared or undeclared priorities, quantities, embargoes, providing either party shall within fifteen (15) days from the occurrence of such a cause notify the other in writing of such cases.
- b) Your company 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.
- c) For delay arising out of Force Majeure, your company will not claim extension in completion date for a period exceeding the period of delay attributable to the causes of force Majeure and neither GMDC nor your company 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.
- d) Your company 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 given though such cause any occur after your company's performance of his obligations has been delayed for other causes.

Applicability:

1. Force majeure will be considered in following situation only.
 - a) in case which is beyond the control of the parties to the contract.
 - b) The unforeseen event which could not be presumed at the time of finalization of the contract.
 - c) Any event which could not be foreseen with a reasonable amount of diligence by the parties to the contract. An incidence of natural calamities such as flood, draught, cyclone, earthquake and epidemics, declaration of war may be treated as force majeure.
2. The parties to the contract affected by force majeure should give at least 15 days written notice under proper receipt of his intension to consider certain period as Force Majeure from the date of occurrence of event leading to force majeure.
3. The parties to the contract affected by force majeure should also indicate in the notice about all possible steps taken to reduce the adverse effect of the force majeure event.
4. If the effect of force majeure is likely to affect the parties of the contract for more than 2 months then contract may be terminated with mutual consent.
5. In case of force majeure condition, GMDC reserves the right to extend the period of the contract suitably and liquidated damages may be reviewed during the force majeure period.

However, in no case, GMDC will pay any compensation towards force majeure period nor any compensation will be paid for idle machinery and manpower.

- 20.0** Your company will abide by all the statutory regulations applicable at the project e.g. Mines Act, Factory Act and other related Law & Regulations etc.
- 21.0** Your company is abide by all the conditions of this work order as well as the terms and conditions mentioned in the tender document published earlier for this work.
- 22.0** The work carried out during the Monsoon period may be take care off.

Indemnity declaration form
(On letter head of the bidder)

UNDERTAKING

Ref. No.

DATE:

To,
The MANAGING DIRECTOR,
M/S. GUJARAT MINERAL DEVELOPMENT CORPORATION LTD,
“KHANIJ BHAVAN”, 132, FT. RING ROAD,
NR. UNIVERSITY GROUND, VASTRAPUR,
AHMEDABAD – 380 052.

Dear Sir,

I/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 e-Tender No. GMDC/ENV/03/2017-18:

We shall be responsible for all risk arising in connection with or on account of the operations covered by the contract covered by above e-Tender and shall make good all losses and damages arising there from. In case, the GMDC Limited shall incur any cost or expense or suffer any loss on account of any claim demand or course of action brought against us and arising out of the operation covered by the Bidder/ e-Tender, the GMDC Limited shall have the power (Without being bound to do so) to define, contest or compromise any such claim demand or cause of action. Any amount that may become payable by GMDC Limited and any cost expense etc. that may be incurred by GMDC Limited in this behalf, shall also be recoverable from us, without prejudice to your other rights.

Yours Faithfully,
For _____

SEAL & SIGNATURE OF AUTHORITY

STATUS OF BIDDER

Name of the Bidder	
Full Address	
Telephone No.	
Fax No.	
E-Mail Address	
Name and Designation of Authorized person	
Copy of last three years Balance Sheet (2014-15 / 2015-16 & 2016-17)	
Detail and address of partners, if any	
Name of bankers with full address and telephone no.	
Details of PAN No. (Please attach copy)	
GST Registration Details with copy of certificate (Please attach copy)	

Note: Bidders are requested to submit supporting documents duly signed and stamped for above asked.

DETAILS OF RELEVANT WORK CARRIED OUT BY THE BIDDER

S. No.	Contract No. & Date/Year	Client	Details of work	Completion period as per contract	Remarks

Note: Bidders are requested to submit supporting documents like copies of work orders &/or completion certificate.

DETAILS OF SKILLED MANPOWER

Particulars of skilled manpower deployed on	Qualification and Year	Strength (Nos.)	Experience (Years)

Note: Bidders are requested to submit supporting documents including Copies of staff bio-data and experience certificate etc. for above asked.

**DETAIL OF EQUIPMENTS AVAILABLE FOR
DRILLING AND CONSTRUCTION OF WELLS**

S. NO.	DETAIL OF EQUIPMENTS	QUANTITY	REMARKS

PRICE BID

Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water leveling Instruments AND one time ground water level / Quality measurement of water sample collected from the same wells.

Sr. No.	Description	Price per meter of drilling (Rs.)	Price (Rs.)	Total Price
		a	b	c
1	Charges of Drilling and construction of 01 well (90 Meters depth) including all type of work as per scope.			
2	Charges of Drilling and construction of 05 wells (90 meters depth each) including all type of work as per scope.			
GRAND TOTAL (2c)				

- Note:
1. Price per well will be given on actual depth of wells drilled either decreased or increased.
 2. GST shall be reimbursed as per prevailing rules on production of documentary proof of its submission to regulatory body.
 3. TDS will be deducted from all the bills payment.

PRICE BID

Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water leveling Instruments AND one time ground water level / Quality measurement of water sample collected from the same wells – Supply of Ground Water Leveling Instruments and well water sample analysis.

Sr. No.	Description	Price (Rs.)
1	Cost of Ground Water Level Monitoring Instrument (2 Nos.)	
2	Cost of Well Water Analysis (5 Nos.)	
Total		

Note: 1. GST shall be reimbursed as per prevailing rules on production of documentary proof of its submission to regulatory body.

2. TDS will be deducted from all the bills payment.

DECLARATION

(On letter head of the Bidder)

FROM:

DATE:

To,
The Managing Director,
Gujarat Mineral Development Corporation Ltd.,
“Khanij Bhavan”, 132 ft. Ring Road,
University Ground, Vastrapur,
Ahmedabad-380052

Subject: Drilling and Construction of Piezometer /Tube well, FIVE (5) Nos. for statutory ground water observation at Mata no Madh Lignite Mine, Kutch along with to provide two ground water leveling instruments AND one time ground water level / Quality measurement of water sample collected from the same wells.

Dear Sir,

I/we here by solemnly declare that any of our Directors or Partners, jointly or severally and/or individually or our firm/company have not been black listed by the Central Govt. or the State Govt. or its undertakings.

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

Yours faithfully,

[Authorized Signature / Stamp]