

e-TENDER No. – GMDC/ENV/04/2018-19

e-TENDER  
FOR

**STUDY OF CHANGE IN LAND USE PATTERN BY  
USING REMOTE SENSING AND GEOGRAPHICAL  
INFORMATION SYSTEM (RS/GIS) TECHNIQUE FOR  
MINING LEASE AREAS OF THE VARIOUS MINES OF  
GMDC**



**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  
TELE-FAX: (079) 2791 3038, E-mail [env@gmdcltd.com](mailto:env@gmdcltd.com)  
Visit our web-site: [www.gmdcltd.com](http://www.gmdcltd.com)**



**GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED**

**e- TENDER NOTICE**

GMDC invites online e-tender from reputed and NABET Recognized consultants for “Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.

e- Tender No.	:	GMDC/ENV/04/2018-19
Work Description	:	“Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.
Place of work	:	<ol style="list-style-type: none"> <li>1. Mata no Madh Lignite Project, village Mata no Madh, Taluka Ravapar, Dist. Kutch.</li> <li>2. Umarsar Lignite Project, village Umarsar, Taluka Lakhpat, Dist. Kutch).</li> <li>3. Surkha (N) Lignite Project, village Surkha, Taluka Ghogha, Dist. Bhavnagar.</li> <li>4. Amod (G-19 Extn.) Lignite Mine, Taluka Jhagadia, Dist Bharuch.</li> <li>5. Tadkeshwar Opencast Lignite Mine, Taluka Mandvi, Dist. Surat.</li> <li>6. Ratadia- Nagrecha Bauxite Mining Project, village: Ratadia, Dist. Kutch.</li> </ol>
TENDER Processing Fee (Non Refundable)	:	<p><b>Rs. 2000/- + GST (18%) (360) = 2360/- through D.D.</b></p> <p><b>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.</b></p>
EMD (Refundable)	:	<p><b>Rs. 2,00,000/- through D.D.</b></p> <p><b>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.</b></p>
Security Deposit (Refundable)	:	<p><b>5 % of contract value in form of DD.</b></p> <p><b>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.</b></p> <p><i>It has to be submitted by contractor only after receipt of LOI issued by GMDC.</i></p>

Availability of TENDER document	:	On website <a href="https://gmdc.nprocure.com">https://gmdc.nprocure.com</a> And <a href="http://www.gmdcltd.com">www.gmdcltd.com</a>
Last date and time of downloading the Tender	:	<b>28-08-2018 – 17:00 Hrs.</b>
Last date and time of online submission of bid	:	<b>28-08-2018 – 17:00 Hrs.</b>
Last date for Submission of Preliminary Bid (Tender fee and EMD) and Supporting documents as a proof for Technical bid during office hours.	:	<b>28-08-2018 – 12:00 Hrs.</b>
Date & time for viewing & opening of Preliminary bid.	:	<b>29-08-2018 – 12:00 Hrs.</b>
Date & time for viewing & opening of Technical bid.	:	<b>29-08-2018 – 12:05 Hrs.</b>
Date & time for viewing & opening of Price bid.	:	<b>30-08-2018 – 12:00 Hrs.</b>
Validity of Bid	:	<b>180 Days</b>

## **GENERAL INSTRUCTIONS TO THE BIDDERS FOR TENDERING:**

### **1.0 Tendering**

#### **1.1 THE 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 tender notice.

#### **Part – I Preliminary Bid**

Detail of DD for EMD and Tender Fee shall be submitted online. Further, Original Cheques / Drafts of **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” Tender No. and Name of work.**

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

#### **Part - II Technical bid (Annexure I to IV)**

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

#### **Part – III Price-bid (Annexure V)**

To be submitted **on line only** within the stipulated time.

All supporting documents along with tender fee and EMD in a sealed sub-scribed **“Pre & Technical Bid, Tender No. and Name of work etc.** must reach till last date on below given address:

**CHIEF General Manager**  
**Gujarat Mineral Development Corporation Limited**  
**“Khanij Bhavan”, 6<sup>th</sup> Floor, ‘A’ Wing,**  
**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 tender fee and EMD along with their respective forms.

Technical bid of only those bidders will be opened from whom tender fee and EMD will be received by GMDC. Then Technical bid will be opened online along with hard copies of signed and stamped copy of technical document and all essential supporting documents to verify that bidder is technically qualified or not for the desired work.

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

**1.4** Bidders who wish to participate in online tenders will have to procure / should have legally valid Digital Certificate 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 1.5.

**1.5** All bids should be digitally signed. For details regarding digital signature certificate and related training involved at the below mentioned address should be contacted:

**(n)Procure Cell**

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

**403, GNFC Info-Tower, Bodakdev,**

**Ahmedabad- 380 054 (India)**

**Tel: +91 26857316/17/18 Fax: +91 79 26857321**

**Toll Free: 1800-233-1010**

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

**1.6** Kindly take note that, valid Digital Signature Certificates is must for all the interested bidders. Online tendering process is not possible without valid digital signature certificate.

**1.7** Interested bidders are also requested to complete their procedure for taking digital signature certificate in respect to filling of application form, supporting documents with necessary fees at least 3 days before last date of tender submission.

**1.8** (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.

**1.9** All the bidders who have no facility to participate in on-line tenders are requested to contact (n) code solutions for the same.

**1.10** 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

**1.11** 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

### **1.12 Corrigendum:**

Bidders are requested to see the website <https://gmdc.nprocure.com> once again before due date of Tender opening of ensure that they have not missed any corrigendum uploaded against the said Tender after downloading the 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 downloaded the Tender document from the website as information in this respect will be available to website i.e. <https://gmdc.nprocure.com> etc.

## **2.0 Preamble**

**2.1** This 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 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 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 tender document and forms referred to in the tender, if not returned or if returned but not duly filled in (where required) and signed, will result in rejection of the tender.

### **3.0 Examination**

**3.1** The Bidder would carefully examine the 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 obtain all information as to risks, contingencies, responsibilities and other circumstances which might influence or affect his 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 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 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 tender document.

**4.0** Any conditional tender will be rejected outright and no claim whatsoever in respect thereof shall be entertained.

**5.0** The Management of GMDC reserves the right to reject / cancel any or all tenders without assigning reasons and to negotiate with any Bidder for more

favourable rates. Each and every page of the 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.

**6.0** Submission of False or incorrect information, history of delaying in completion of work, reports of unprofessional conduct among other things shall be sufficient grounds for disqualification in technical bid.

**7.0** GMDC reserves the right to ask any information during the currency of tender.

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

**9.0** 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.

**10.0** Bids with joint venture agencies will not be accepted and successful bidder may not assign their work to other third party.

**11.0** All applicable taxes and duties etc. towards Supply as well as Erection and commissioning shall be reimbursed as per prevailing rules. TDS will be deducted from the bills as per prescribed rule.

**12.0 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 tender.

**Application expressing interest by the Bidders:**

Date:

To,

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

e-Tender No. – **GMDC/ENV/04/2018-19**

**Subject: “Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.**

Sir,

I/We are interested in participating in the above e-tender for “Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.

I/We have adequate experience in RS / GIS Technique 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 – 380052, Gujarat.**

**Sub. : Tender Fee for “Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.**

e-Tender No. – **GMDC/ENV/04/2018-19**

Dear Sir,

With reference to above, and as per terms & conditions of Tender, we are sending herewith DD No. \_\_\_\_\_ Dated \_\_\_\_\_ Name of the Bank and Branch, \_\_\_\_\_ for Rs. 2360/- [Rs. Two Thousands Three Hundred & Sixty only] including GST is being the amount of 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 – 380052, Gujarat.**

**Sub. : Tender Fee for Tender No. for “Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.**

**e-Tender No. – GMDC/ENV/04/2018-19**

Dear Sir,

With reference to above, and as per terms & conditions of Tender, we are sending herewith DD No. \_\_\_\_\_ Dated \_\_\_\_\_ Name of the Bank and Branch, \_\_\_\_\_ for Rs. \_\_\_\_\_ being the amount of EMD for participation in bids of subject matter.

Thanking you,

Yours faithfully,

**Name / Signature & Stamp**

***On Bidders Letter Head***  
**DECLARATION**

FROM:

DATE:

To,  
**The Managing Director,**  
**Gujarat Mineral Development Corporation Ltd.,**  
**“Khanij Bhavan”, 132 ft. Ring Road,**  
**University Ground, Vastrapur,**  
**Ahmedabad – 380 015**

Dear Sir,

Subject: **“Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.**

e-Tender No. – **GMDC/ENV/04/2018-19**

I/We here be 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/Gujarat 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,

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**Signature and Stamp of the Bidder**

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

**1.0 NOTICE INVITATION TO BIDDER:**

Gujarat Mineral Development Corporation Ltd. (GMDC) invite bids from reputed financially and technically sound, QCI-NABET accredited EIA experienced Consultants for “Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.

GMDC reserves the right to reject any or all the TENDER or split the work between more than one bidder without assigning any reason thereof.

**2.0 LOCATION AND DESCRIPTION OF THE SITE:**

S. No.	Project Name & Address	Area of Mine (in Ha.)	Detail of Project wise corresponding years for land Use Study.
1	Mata no Madh Lignite Project, village Mata no Madh, Taluka Ravapar, Dist. Kutch (Gujarat).	1752.6156	2010, 2013, 2016 and 2018
2	Umarsar Lignite Project, village Umarsar, Taluka Lakhat, Dist. Kutch (Gujarat).	2186.76	2009, 2012, 2015 and 2018
3	Surkha (N) Lignite Project, village Surkha, Taluka Ghogha, Dist. Bhavnagar.	3672.00	2007, 2010, 2013, 2016 and 2018
4	Amod (G-19 Extn.) Lignite Mine, Taluka Jhagadia, Dist Bharuch.	384.96	2006, 2009, 2012, 2015 and 2018
5	Tadkeshwar Opencast Lignite Mine, Taluka Mandvi, Dist. Surat.	964.44	2010, 2013, 2016 and 2018
6	Ratadia- Nagecha Bauxite Mining Project, village: Ratadia, Dist. Kutch, Gujarat.	204.07	2006, 2009, 2012, 2015 and 2018

### 3.0 QUALIFICATION CRITERIA:

1. Bidder should have Qualified & Experienced Person in Land Use, Geology & Hydrology.
2. Bidder should have NABET accredited Functional Area Expert (FAE) in land Use, Geology & Hydrology in "A" Category.
3. Bidder should have more than 10 years of Experience in the similar field.
4. Bidder should have completed at least 10 EIA's related reports on land use as Functional Area Expert (FAE) or a NABET accredited Organization.
5. Bidder must visit all the projects before bidding the price to know the actual condition of projects and supporting document of visit to be submitted along with bid.

### 4.0 SCOPE OF WORK:

#### (I) Requirement:

Sr. No.	Project	Environment Clearance Requirement
1	Mata No Madh Opencast Lignite mine, Dist. Kutch	For monitoring land use pattern and for post mining land use, a time series of land use maps based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MoEF and its Regional Office at Bhopal.
2	Tadkeshwar Opencast Lignite mine, Dist Surat.	For monitoring land use pattern and for post mining land use, a time series of land use maps based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MoEF and its Regional office at Bhopal.
3	Umarsar Opencast Lignite mine, Dist. Kutch	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MoEF and its Regional office at Bhopal.
4	Surkha	Digital processing of entire lease area using remote

	(North) Lignite Mine, Dist. Bhavnagar	sensing technique should be done regularly once in 3 years for monitoring land use pattern and report submitted to MoEF and its Regional office at Bhopal.
5	Amod (G-19 Extn.) Lignite Mine, Dist. Bharuch	Digital processing of entire lease area using remote sensing technique should be done (Pre- and during mining operations) regularly once in 3 years for monitoring land use pattern and assess the impact of mining and restoration of land post closure and report submitted to MoEF and its Regional office at Bhopal.
6	Ratadia – Nagrecha Bauxite Mine, Dist. Kutch	Digital processing of entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MoEF and its Regional office.

## (II) Approach and Methodology:

Steps:	Description of Approach and Methodology (Considering 30 images and 6 Mine locations)
Step 1:	Procurement of Mines boundary / surface area map / Topographic Map (will be provided by GMDC).
Step 2:	Procurement of Village Maps with Plots & type of Ownership (Census 2011, Revenue data etc.) and Survey of India Topo sheet, DILR Maps etc.
Step 3:	Procurement of Satellite Image as per Project wise Detail for Years required in Land Use Pattern Study.
Step 4:	Pre-Processing, Geo-rectification and Mosaicing of Satellite Image.
Step 5:	Digitization of Mines boundary / surface area / Topographic Map for the study area
Step 6:	Scan, Geo-referencing and Digitization of Plot Level Village Map.
Step 7:	Topographic Survey: Field Visit and Photography, Survey through DGPS/Total Station, Land Use verification and demarcation of Mine Boundary (First Visit).
Step 8:	Preparation of Base Map of study area.
Step 9:	Preparation of Land Use Maps as per Project wise Detail for Years required in Land Use Pattern Study (Core + 10 Km Buffer).
Step 10:	Overlay Analysis of Village Map on Land Use as per Project wise Detail for Years required in Land use Pattern Study.
Step 11:	Field Visit (Final – for Group discussion with the locals and verification of any

	anomalies or queries).
Step 12:	Preparation of Final Land use Maps.
Step 13:	Change Detection Analysis for various years (every 3 Years) for Land use of core mining area and its Buffer area.
Step 14:	Layout Designing of the Maps.
Step 15:	Draft Reports and Presentation (Mid-Review for required modification).
Step 16:	Staff Training Program (Free/Open source software will be provided to GMDC for visualization of the Maps).
Step 17:	Feedback from GMDC authorities.
Step 18:	Final Reports (5 Copies in Hard Form with colour Pictures, Photos and Maps etc.) AND 2 Copies in Soft Form in Pen Drive) including Original Satellite Images and other Maps / Reports etc.).
Step 19:	Final Outputs: Prints of Maps (A2 or A3 size) and Reports (A4 size).

**Note:** GMDC is responsible for Step 1 as well as Step 17 in above table.

### **(III) Description of Task/Steps:**

This task should focus on the preparation of change detection model and mapping for monitoring land use pattern and for post mining land use condition, a time series of land use maps based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MoEFCC and its Regional Office at Bhopal.

The detailed activities to be carried out under this scope of work are as follows:

#### **Step 1:**

##### **Procurement of Mines boundary / surface area map / Topographic Map:**

Initially Mines boundary / surface area map / Topographic Map, other related details will be collected from the GMDC. Mines boundary / surface area map at times also contain village and plot level boundary as well, which shall be taken into consideration.

The expected format for mines related maps would be AutoCAD or GIS format, however if the same is not available then it must be collected in a JPG or PDF format which will then be digitized and converted into soft copy.

#### **Step 2:**

##### **Procurement of Village Maps with Plots & type of Ownership (Census 2011, Revenue data etc.) and Survey of India Topo sheet, DILR Maps**

Village boundary shall be extracted from the census book 2011.

Plot level maps or DILR maps shall be collected from various government departments like Revenue and/or Collectorate office, Talati office or Panchayat office of respective villages or any other concerned department.

Maps containing government and private plots also need to be procured from respective govt. department like revenue department, Talati office or Panchayat office of respective villages or any other related department for proper identification and mapping of private and Government owned boundaries. This is important for socio-economic prospective as well. GMDC shall assist necessary help in procuring these data from the government departments with necessary forwarding documents.

Survey of India topo sheet shall be procured for Survey of India and shall be later processed and Geo referenced with its required co-ordinate system.

### **Step 3:**

#### **Procurement of Satellite Image as per Project wise Detail for Years required in Land Use Pattern Study asked by GMDC:**

Satellite images shall be procured from NRSC, Hyderabad or other competent and reliable source based on the co-ordinates of mine boundaries identified from the Mines boundary map/ surface area map / Topographic Map of the respective mines provided by the GMDC.

The priority should be given to the highest resolution available for any Indian satellite sensor. This would be Cartosat series and LISS IV series of satellite images. These images need to be of same time period/ seasons.

LISS IV is important as it has the highest available Multispectral (for Colour) resolution of 5 mtr.

Cartosat series of images shall also be required as it has the highest Pancromatic (black & White or Grey scale) resolution available (2.5 mtrs to Sub-meter).

1. The Layer stacking the MSS image of LISS IV shall be done before any kind of analysis.
2. Pre-processing like radiometric correction, haze reduction removal of any bad line etc should be done before using it for any kind of analysis.
3. Ortho-rectification should be done based on stereo pair images of Cartosat / available DEM / field DGPS survey or any other source of data available prior to any other processes for achieving better accuracy.
4. Both these images shall need to be fused for getting best of both the images in terms of spectral and spatial resolution for generation of the Land use maps at the scale of 1:5000.

### **Step 4:**

#### **Pre-Processing, Geo-rectification and Mosaicing of Satellite Image**

Survey of India topo sheet should Geo referenced with its required co-ordinate system. This then shall be used as a base for initial level geo referencing of the other map and satellite data.

The co-ordinate system that shall be used will be in accordance with the NRSC standards. Global UTM WGS84 zone 42 and 43 N (as per the location of the mines within the Gujarat state) are generally used as standards. This should be considered for the mapping purpose as well.

Geo-referencing shall be done for the available Mines boundary / surface area map / Topographic Map and village maps so that they can overlap with each other.

Plot level village maps and/or DILR maps shall then be superimposed on them so that all the available data are appropriately scaled and in the precise locations with respect to ground.

#### **Step 5:**

#### **Digitization of Mines boundary / surface area / Topographic Map for the study area**

Mines boundary / surface area map / Topographic Map and other related spatial and spatial data once collected from the GMDC office shall be digitized to bring it into GIS format.

If available in AutoCAD format then it will be converted to GIS format after appropriate application of Projection system (UTM WGS84 Zone 42 or 43). Mostly AutoCAD data available at GMDC are mostly in Easting and Northing and not presented in Degree, Minute and Second. The same will then be superimposed on the Plot level village maps and Land use Maps.

#### **Step 6:**

#### **Scan, Geo referencing and Digitization of Plot Level Village Map**

Village map extracted from the Census 2011 book will be scanned, Geo referenced with appropriate projection system and digitized in GIS format. Plot boundaries collected from the local government authorities or Talati/Panchayat or revenue departments will also be geo referenced with appropriate projection system. For precision mapping geo referencing will be done based on the satellite images in such a way that the actual plots visible on the satellite images can be considered for precise superimposing of the village plot boundaries. Maps will then be digitized in GIS Environment.

#### **Step 7:**

Topographic Survey: Field Visit and Photography, Survey through DGPS/Total Station, Land Use verification and demarcation of Mine Boundary (First Visit)

Identification and demarcation of mine boundaries as well as village/plot boundaries and verification of areas unidentified from satellite images for preparation of Base map

Consultants will need to prepare an list of locations (which needs verification) to be surveyed before going to the field. These locations are carefully selected after proper visual analysis of satellite images and collected maps.

He should also prepare a checklist of necessary equipments to carry along with them during the field visits.

### Checklist (in General):

1. GPS/DGPS set.
2. Camera with capability of recording locations/Geo-tagging (for photography).
3. Note Book, Pen, Marker (for field notes).
4. Water bottles.
5. Food (fruits and Juices).
6. Blanket and bed sheet / sleeping bags.
7. Satellite images with Grid points for surveying (soft and hard copies).
8. Medical Kit.
9. Caps, Sunscreen and Cloths (UPF 50).
10. Smart Mobiles (2 sets).
11. All terrain Shoes.
12. Handkerchief.
13. Goggles/shades.
14. Mask.
15. Tents (If required) etc.

Appropriate grid sampling technique for the topographic survey will be planned based on the latest satellite images and Mines boundary / surface area map / Topographic Map available through GMDC. Grid size could vary based on the actual field conditions. In general it should range from 1 ft x 1 ft to 30 ft x 30 ft depending on the actual field conditions.

A benchmark will be identified for proper superimpositions with satellite images and govt. provided maps.

Photographs of all the location of the mine boundary Pillars will be collected along with the photographs of the land use features. These all the photographs will be Geo-tagged for better visual presentation on the GIS software.

After marking of the final mine boundaries (after field verification) on GIS base map, digital code <sup>1</sup> to each photograph will be given which would help in integration of socio-economic data and GIS at local level.

### **Step 8: Preparation of Geo-referenced Base Map**

The preparation of Geo-referenced base map to an appropriate scale of 1:5000 would be a prerequisite for the preparation of Change detection analysis. The digital base map provides a common spatial framework that will be used by all participating sections / departments within GMDC for any kind of mapping and the development of detailed GIS based maps in future.

The digital base mapping will be used to establish a strong visual link between the location of a mine and its corresponding data. GIS mapping software like ArcGIS will be used to analyze, manipulate and display the appropriate mining data.

## **Preparation of geo-referenced base map<sup>2</sup>**

The preparation of geo-referenced base map shall be based on high-resolution satellite imageries and DGPS field survey. To facilitate sharing of information between various municipal sections, it is critical that GIS base mapping be compatible with standard data base formats.

National Remote Sensing Centre, Hyderabad has already standardise a format for representing a Land use map with its respective coding. This system will be adopted for representation of the features in a Land use map which will make it possible for other agencies to incorporate them in their respective studies when required. (The same format will be adopted for preparation of Land use map as well.)

The base map shall contain major physical features with reference names, such as National Highway, State Highway, main roads, railways, airport, eco -sensitive zones, important landmarks, water bodies, rivers, mine boundaries, administrative boundaries, etc.

The base map will provide the background upon which other data layers (such as Mines boundary / surface area map / Topographic Map/ contours, physical and social infrastructure etc.) are overlaid and analysed in GIS.

### **Step 9:**

#### **Preparation of Land Use Maps as per Project wise Detail for Years required in Land Use Pattern Study asked by GMDC vide email dated 17 May 2018 (Core + 10 km Buffer)**

Land use map will be prepared based on the visual interpretation to get the best results. Field verifications will be done as and when required for the better identification of the features.

Same co -ordinate system will be used as in the geo referencing of the Satellite images (UTM WGS84 Zone 42 or 43 N as per the location of the mines within the Gujarat state).

File type used to the preparation of the Maps would be in the format of “Personal Geo database” and/or “file Geo database”. If found required it shall be converted and provided in the shape file format as well (as it is widely used, and accepted in major other GIS software).

The classification system that would be adopted for Land use map generation would be based on standardized format from NRSC (national Remote Sensing Centre, Hyderabad) However since all the categories are not covered in that system required updation will be done over to cover other categories. This classification system is attached as an Annexure -1 for the reference.

There are various level of classification system adopted by NRSC. An attempt would be taken to classify to the best level possible for the mine site area i.e. Level 3) for preparation of Land use map.

**Step 10:****Overlay Analysis of Village Map on Land Use as per Project wise Detail for Years required in Land Use Pattern Study asked by GMDC vide email dated 17 May 2018**

After the completion of all the maps an attempt would be made to overlay the plot level village maps over the land use maps generated for various years. These would be useful for change analysis at village level. Based on this a village wise change detection maps can be generated. This may also help in any future development works or any socio-economic studies.

**Step 11:****Field Visit (Final – for Group discussion with the locals and verification of any anomalies or queries)**

Second field visit would be done for final verification of the features of the land use as well as cross - verification of the features presented in the village and plot level maps if any anomalies or queries are left after the final preparation of the Land use map.

During this visit a group discussion will also be done with the locals and authorities.. The focus of this discussion would be to understand the terrain and land use of the past and the changes that have occurred after the operation of the mines. Impact of any positive or negative nature on the land use and environment in their perspective. Such focus group discussion helps us better understand the environment and changes that have occurred over a period of time.

**Step 12:****Preparation of Final Land use Maps**

Land use maps will be finalized after remaining queries will be resolved after the final field verifications.

**Step 13:****Change Detection Analysis for various years (every 3 Years) for Land use of core mining area and its Buffer area**

Change detection analysis is important for understanding of the pattern of change in a given area over the period of time this is useful for planning of any future development works. Change detection analysis would be done for every 3 years as per the requirement of the project.

Software like ArcGIS would be used for the change detection analysis. It has special modules of spatial analysis tool for such analysis, which will be taken into consideration.

Change detection would be based on a simple over analysis, however special codes will be developed for getting the final desired output for the change analysis which would then be used in categorizing the change in terms of increase in area, no change or decrease in the same category of the area of features.

The changes would be categorized in 5 major groups:

1. Highly increased ( $\geq 50\%$  area)
2. Moderately increased ( $\leq 50\%$  area)

3. No change
4. Moderately decreased ( $\leq 50\%$  area)
5. Highly decreased ( $\geq 50\%$  area)

The new features that may have developed in the later years or which were not present in the earlier years will be highlighted separately, however these methodology may be modified/updated depending on the requirement of the final results of the change detection analysis.

**Step 14:**

**Layout Designing of the Maps**

Layout will be designed in such a way that all the necessary details can be displayed in the map at various scales and sizes appropriately. This would be done after a discussion with the authorities of GMDC to meet their requirements.

**Step 15:**

**Draft Reports and Presentation (Mid Review - for required modification)**

A set of Draft Reports will be prepared for the reviewing purpose for the GMDC authorities. These will then be modified if required as per the specifications of the authorities and a presentation will be given to update the authorities with the results and the output of the reports.

**Step 16:**

**Staff Training Program (Free/Open source software will be provided to GMDC for visualization of the Maps)**

We also plan to incorporate a staff training program as a part of the project so that they can be well equipped to learn and understand the intricacies of the project methodologies and results

**Step 17:**

**Feedback from GMDC authorities**

This would be helpful in understanding overall quality management during the execution of the project.

**Step 18:**

**Final Reports**

Maps and reports will be finalized after a careful review and discussions with the authorities for their requirements. Maps will be provided separately as well for quick references with necessary details.

**Step 19:**

**Final Outputs: Softcopies and Prints of Maps (A2 or A3 size) and Reports (A4 size)**

- Softcopies and Hardcopies of Satellite images in A0 Size.
- Final output will be submitted to the GMDC authorities as per their requirements.
- Maps will also be submitted separately in a larger size of A2 or A0 as per the requirement.
- Reports will be printed in A4 size.
- All the maps and report will be in colour.

- Reports and Maps of Core and Buffer Areas should be provided as separate separates.

#### **(IV) Quality Assurance:**

Care would be taken to get only the cloud free images within the study area while procuring the satellite images if necessary (if not available from Indian satellites) satellite images from foreign satellite like Quickbird/ IKONOS/ GEOEYE etc. will also be considered

Satellite image Geo reference will have RMS error of less than 0.5 units.

Care will be taken that all the Plot level village maps/ DILR maps have minimum shift as they will have a different co-ordinate system then the satellite images

Village maps are generally hand drawn and not to the scale hence utmost importance will be given for getting best possible results by matching landmarks, manmade features or natural features like water bodies, rivers

Surveying will only be done through DGPS and/or Total Station with 1 sec. accuracy.

Standard land use classification from NNRMS and/or NRSC will be given the first priority.

Change detection analysis will be done only on the basis of the category mentioned below:

1. Highly increased ( $\geq 50\%$  area)
2. Moderately increased ( $\leq 50\%$  area)
3. No change
4. Moderately decreased ( $\leq 50\%$  area)
5. Highly decreased ( $\geq 50\%$  area)

Layout designs and appropriate colour coding will be finalized after discussion with the GMDC authorities.

#### **5. 0 SCOPE OF ASSISTANCE FROM GMDC:**

- (i) To provide Mines boundary / surface area map / Topographic Map (will be provided by GMDC).
- (ii) During data / information collection at projects, GMDC can provide accommodation purely on chargeable basis, where available, on rate as applicable to GMDC guests subject to availability of accommodation.
- (iii) 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 or may provide relaxation in bidding conditions after due approval of competent authority of GMDC at any time without giving any notice to the Successful Bidders without incurring any responsibility.

## **6.0 PAYMENT TERMS:**

Terms of payment will be as following:

(i) After 1 <sup>st</sup> visit to all the projects	10%
(ii) After collection of Satellite Images & relevant information	10%
(iii) After Draft Report submission	50%
(iv) After submission of Final Reports	30%

## **7.0 COMMENCEMENT OF WORK:**

The commencement of work will be considered from 15th day of issuance of work order. The successful bidder has to submit detailed program of the work as per given guidelines within 15 days from the date of commencement of work. The time schedule submitted by the successful bidder shall include time for obtaining required approvals, preparation of reports etc. However, if delay is caused by factors beyond reasonable control of the successful bidder, GMDC may consider such delay favourably.

## **8.0 TAXES, DUTIES & LEVIES AND STATUTORY OBLIGATIONS:**

All applicable taxes and duties etc. 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.

## **9.0 SUBLETTING OF THE WORK:**

Successful Bidder will not sublet the work to any other agency.

## **10.0 TENDER FEE AND EARNEST MONEY DEPOSIT:**

- (a) A non-interest bearing DD of TENDER Fee of Rs. 2000/- (Two Thousands only) and additional GST of Rs. 360/- (Three Hundred & Sixty only) (18% of tender fee), totalling to  $2000 + 360 = 2360/-$  (Rs. Two Thousands Three Hundred & Sixty only) and Earnest Money Deposit of Rs. 2,00,000/- (Two Lakhs only) shall be submitted along with desired form provided with tender in separate sealed cover super scribed “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 Tender submitted without Earnest Money shall be summarily rejected and no claim shall be entertained on such rejected tenders.

- (b) Bidders can bid for individual project and accordingly EMD has to paid.
- (c) 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.
- (d) Tender Fee is non refundable and EMD of supplier will be refunded after the receipt of Security Deposit on receipt of written request.
- (e) If the party does not accept the LOI / work order issued by G.M.D.C., then EMD amount paid by the bidder will be forfeited.
- (f) EMD will not bear any interest.
- (g) Liquidated damages may be recovered from EMD.

#### **11.0 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 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 contractor 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 shall not bear any interest.
- (f) GMDC reserves the right to recover the charges or the penalty from the Security Deposit in the following circumstances:
  - (i) If your entity cause any damages or destroy any property belonging to GMDC.
  - (ii) The shortfall amount of all compensations, penalties and other sums of money payable by your entity or recoveries to be made under the terms of this contract which is due but not paid by the contractor in full etc.

#### **12.0 NO RELAXATION OF EMD/SD.**

No relaxation will be made for EMD / SD.

#### **13.0 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 order will be awarded to the technically and commercially qualified and responsive Successful Bidder, who 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 GMDC.

#### **14.0 LIQUIDATED DAMAGES:**

The Successful Bidders shall be responsible for “Appointment of NABET Accredited Consultant for Environmental Clearances from Ministry of Environment, Forests & Climate Change, GoI – New Delhi for various projects of GMDC in Gujarat State” as specified / described under Location and Description of the site as well as the scope of work in this tender and technical 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 successful bidder will be required to complete the entire job at the satisfaction of GMDC”. In case the successful bidder fails to complete the work in the event at the utmost satisfaction of GMDC, liquidated damages @ 1% per week of the total subject to a maximum of 10% of the total fees payable shall be levied on the successful bidder. GMDC shall be entitled to deduct such damages from the dues that may become payable to the successful bidder.

#### **15.0 ACCEPTANCE OF GENERAL TERMS & CONDITIONS:**

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

#### **16.0 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.

#### **17.0 NON FULL FILAMENT OF TERMS & CONDITIONS & TERMINATION OF THE CONTRACT:**

If the Successful Bidders 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 Successful Bidders.

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 Successful Bidders without incurring any responsibility.

## **18.0 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”.

## **19.0 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.”

## **20.0 FORCE MAJEURE:**

- a) Force majeure is herein defined as any cause which is beyond the control of the your entity 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 entity 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 entity 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 entity 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 entity 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. 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.
2. 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.
3. 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.

- 21.0** Successful Bidders will abide by all the statutory regulations applicable at the project e.g. Mines Act, Factory Act and other related Law & Regulations etc.
- 22.0** Successful Bidders is abide by all the conditions of this e-Tender as well as the terms and conditions mentioned in the tender document published for this work.

## STATUS OF BIDDER FOR e-TENDER NO. – GMDC/ENV/04/2018-19

<b>Name of the Bidder</b>	
<b>Full Address</b>	
<b>Telephone No.</b>	
<b>Fax No.</b>	
<b>E-Mail Address</b>	
<b>Name and Designation of Authorized person</b>	
<b>Copy of last three years (ended on 31/03/2017) Balance Sheet</b>	
<b>Name of bankers with full address and telephone no.</b>	
<b>Details of QCI-NABET Certificates for LU, Geology and Hydrology (Please attach copy of certificate)</b>	
<b>Details of PAN No. (Please attach copy)</b>	
<b>GST Registration Details with copy of certificate.</b>	

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

**Annexure – II**

**DETAILS OF RELEVANT WORK CARRIED OUT BY THE BIDDER FOR e-TENDER  
NO. – GMDC/ENV/04/2018-19**

<b>S. No.</b>	<b>Contract No. &amp; Date / Year</b>	<b>Client</b>	<b>Details of work</b>	<b>Value of work</b>	<b>Completion period as per contract</b>	<b>Actual date of completion</b>	<b>Remarks</b>

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

**Annexure – III**

**DETAILS OF SKILLED MANPOWER FOR e-TENDER NO. – GMDC/ENV/04/2018-19**

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

**Note: Bidders are requested to submit supporting documents including Copies of staff qualification certificate and bio-data and experience certificate etc. for above asked. Copies of NABET Qualification Certificate must also be provide.**

**Annexure IV**

**FACILITY DETAILS AVAILABLE WITH BIDDER FOR e-TENDER NO. –  
GMDC/ENV/04/2018-19**

<b>S. NO.</b>	<b>DETAIL OF EQUIPMENTS</b>	<b>QUANTITY</b>	<b>REMARKS</b>

**PRICE BID**

**“Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.**

<b>Sr. No.</b>	<b>Description of Project</b>	<b>Total Contract Value – Rs. (Exclusive GST)</b>
1	Mata No Madh Opencast Lignite mine, Dist. Kutch	
2	Tadkeshwar Opencast Lignite mine, Dist Surat.	
3	Umarsar Opencast Lignite mine, Dist. Kutch	
4	Surkha (North) Lignite Mine, Dist. Bhavnagar	
5	Amod (G-19 Extn.) Lignite Mine, Dist. Bharuch	
6	Ratadia – Nagrecha Bauxite Mine, Dist. Kutch	

## **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-380015

**Subject: e-Tender for “Study of Change in Land use pattern by using Remote Sensing and Geographical Information System (RS/GIS) Technique for Mining Lease Areas of the various mines of GMDC”.**

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,

---

**Signature and Stamp of the contractor**