

**Request for Proposal (RFP)**  
**for**  
**“Survey, Base Map creation and Implementation,**  
**post Implementation of Enterprise GIS**  
**Application”**  
**for**  
**The Office of the Commissioner of Geology and**  
**Mining, Government of Gujarat**

**(Tender no: SW03082018167)**

**Bid Processing fees: 15,000/-**  
**EMD: Rs. 75,00,000/-**



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**Last date of submission of queries: 07.08.2018 upto 1500 hrs.**  
**Date of Pre-Bid Meeting: 13.08.2018 at 1600 hrs**  
**Last date for submission of Online Bids: 27.08.2018 upto 1500 hrs.**  
**Date of opening of Technical bids: 27.08.2018 at 1600 hrs**

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### Abbreviations

- **CGM:** Office of the Commissioner of Geology Mines
- **GIL:** Gujarat Informatics Limited
- **SI:** System Integrator - A System Integrator (bidder in case of lone bidder or lead bidder in case of consortium) is an organization that implements enterprise-wide IT applications within an organization.
- **EMD:** Earnest Money Deposit
- **QCBS:** Quality & Cost Based Selection
- **CGM:** Commissioner of Geology & Mining
- **GIS:** Geographic Information System
- **GoG:** Government of Gujarat
- **VTMS:** Vehicle Tracking & Monitoring System
- **IPR:** Intellectual Property Rights
- **MIS:** Management Information System
- **OEM:** Original Equipment Manufacturer
- **SDC:** State Data Center
- **SLA:** Service Level Agreement
- **DSS:** Decision Support System
- **PQ:** Pre-Qualification
- **SLA:** Service Level Agreement
- **VTMS:** Vehicle Tracking and Management System
- **ILMS:** Integrated Lease & Management System
- **SDC:** State Data Centre
- **ICT** stands for Information, Communications Technology projects and include IT systems integration project.
- **ITES - ITES** is defined as outsourcing or offshoring of processes that can be enabled with information technology. Such outsourcing or offshoring which is technology enabled entails enterprise functions which are operations focused or customer centric or management of operations through technology enabled solutions.

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# 1. SECTION 1: INTRODUCTION TO PROJECT

## 1.1. RFP Notice

This document is for **“Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application”** for the office of the Commissioner of Geology and Mining (CGM), **Government of Gujarat**.

CGM intends to implement Enterprise GIS for the various mining activities across the state. The solution is envisaged to have an integrated approach of the existing applications and to create GIS maps and references including integrated MIS and DSS to increase the efficiency of administration.

The bidder shall be responsible for maintaining the complete integrated solution for a period of 8 years post go-live. The bidder shall be responsible for providing all types of services as mentioned in this bid document & Scope of Work, as a part of this project.

GIL on behalf of CGM invites sealed bids from eligible bidders for *Survey, Base Map creation and Implementation; post Implementation of Enterprise GIS Application*. The bidder, who intends to participate in this bid, is required to follow the below mentioned stages:

- Pre-Bid Conference
- Technical & Financial Bid Submission
- Opening of Eligibility Documents
- Evaluation of Eligibility Documents
- Opening of Technical Bid
- Evaluation of Technical bid
- Presentation by all the eligible bidders
- Opening of Financial bids of all qualified bidders
- The bidder achieving the highest combined technical and financial score will be invited for negotiations and awarded contract.

Interested companies may download the RFP document from the website [www.gil.gujarat.gov.in](http://www.gil.gujarat.gov.in) & <https://gil.nprocure.com>.

The bids must be submitted online through <https://gil.nprocure.com>. However the eligibility documents and technical bids must be submitted physically at GIL also.

Interested companies may download the RFP document from the websites [www.gil.gujarat.gov.in](http://www.gil.gujarat.gov.in) & <https://gil.nprocure.com>.

The bids must be submitted online through <https://gil.nprocure.com>. However, the eligibility documents and technical bids must be submitted physically at GIL also.

### General terms and conditions

- CGM/GIL reserves the right to reject any or all the Proposals in whole or part without assigning any reasons.
- This RFP document is not transferable.
- Minimum absolute technical score to qualify for Commercial Evaluation is 70.
- Financial bids of only those bidders who qualify on the basis of evaluation of technical bids will be opened.



The bidder shall submit the DD of Rs. <>/- towards bid processing charges and Bank Guarantee of Rs. <> towards bid security amount in sealed cover.

EMD shall be submitted in the form of Demand Draft OR in the form of an unconditional Bank Guarantee (which should be valid for 9 months from the last date of bid submission) of All Nationalized Bank including the public sector bank or Private Sector Banks or banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2016/328/DMO dated 01.05.2017 issued by Finance Department or further instruction issued by Finance department time to time in the name of "Gujarat Informatics Ltd." payable at Gandhinagar (as per prescribed format given at as per prescribed format given at Annexure A) and must be submitted along with the covering letter.

**Note:** Failing to submit physical covers of EMD and bid processing fees at GIL on or before given time limit may lead to the rejection of the bid.

## 1.2. Important Information

Sr.	Information	Details
1.	Last date for submission of written queries for clarifications by email on <a href="mailto:vipulp@gujarat.gov.in">vipulp@gujarat.gov.in</a>	07.08.2018 upto 1500 hrs.
2.	Date and time for Pre-bid conference	13.08.2018 at 1600 hrs
3.	Last date and time for submission of EMD & Bid Processing fees in GIL (physically) along with affidavit in original as format given as <b>Section 9.28: Affidavit</b>	27.08.2018 upto 1500 hrs.
4.	Last date and time for submission of eligibility & technical bids (online) and Financial bid online	27.08.2018 upto 1500 hrs.
5.	Date and time for opening of Bids	27.08.2018 at 1600 hrs.
6.	Place for submission of EMD & bid processing fee, EMD, pre-bid meeting and opening of Bids	Conference Room, Gujarat Informatics Ltd. Block No. 1, 8th Floor, Udyog Bhavan, Gandhinagar
7.	Place, date and time for technical Presentation	The place, date and time for technical presentation will be given to the eligible bidders later on.
8.	Address for communication	DGM(Tech), Gujarat Informatics Ltd. Block No. 1, 8th Floor, Udyog Bhavan, Gandhinagar E-mail: <a href="mailto:nitintatu@gujarat.gov.in">nitintatu@gujarat.gov.in</a> ; <a href="mailto:vipulp@gujarat.gov.in">vipulp@gujarat.gov.in</a> Phone: 91-79-23256022, 59237 Fax: 91-79-23238925
9.	Place, date and time for opening of financial/commercial bids	The place, date and time for opening of financial/commercial proposal will be given to the technically qualified bidders later on.
10.	Bid validity	180 days

## **2. SECTION 2: INSTRUCTIONS TO BIDDERS**

### **2.1. Definitions**

1. “Applicable Law” means the laws and any other instruments having force of law in India from time to time.
2. “Proposal/bid” means proposal submitted by bidders in response to the RFP issued by CGM/GIL for selection of Total Solution Provider.
3. “Competent Authority” means the Revenue Department.
4. “Committee” means committee formed by the CGM for the purposes of processing and evaluation of this bid.
5. “Contract Value” means the price payable to the selected firm/company under the Contract for the complete and proper performance of its contractual obligations.
6. “SI” means System Integrator - any private or public entity, which will provide the services to CGM under the contract.
7. “Contract” means the Contract signed by the parties along with the entire documentation as specified in the RFP
8. “Day” means Working day
9. “Effective date” means the date from which the contract comes into force and effect.
10. “Government” means State Government of Gujarat.
11. “CGM” means Office of the Commissioner of Geology & Mining, Gujarat.
12. “Rules” means the applicable rules under different statutes, Acts, Rules, Government Resolutions, and Circulars in relation to personal management of employees in Gujarat Government.
13. “GIL” means Gujarat Informatics Limited, Block No.1, 8<sup>th</sup> Floor, Udhyog Bhavan, Gandhinagar – 382 017, Gujarat.
14. “Personnel” means professional and support staff provided by the SI and assigned to perform services to execute an assignment and any part thereof.
15. “Services” means the work to be performed by the SI pursuant to the selection by CGM and to the contract to be signed by the parties in pursuance of any specific assignment awarded to them by CGM.
16. “Go live” means completion of work as per the RFP/Work order issued to selected bidder and successful completion of UAT/FAT and deployment of the solution on user platform.

### **2.2. Sources of funds**

CGM is calling the SI for “Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application”.

The Work Order will be placed on the selected SI by CGM directly and the payment for the services mentioned in the said work order will be made directly by CGM from their own sources of funds as per the financial terms and conditions mentioned in this document.

### 2.3. Eligibility Criteria

The bidders meeting the following eligibility criteria will be short listed and considered for technical evaluation.

Sr.	Eligibility Criteria	Attachments
1.	The Bidder (both lead bidder and consortium member) must be a company in India Registered under The Company's Act 1956 / 2013 & further amendments. OR Partnership firms registered under Limited Liability Partnerships (registered under LLP Act, 2008) OR Partnership firms registered under Indian Partnership Act, 1932. The firm should be operational at least for last 5 years as on date of publishing of RFP.	The applicant must have a valid Registration certificate. Any name change of the company must also have a valid name change registration certificate
2.	The Bidder can be a company or corporation or a consortium of companies / corporation. In case of a consortium, the same shall not consist of more than two companies / corporations and shall be formed under a duly stamped consortium agreement. The original stamped consortium agreement shall be attached along with the Bid Document. In the event of a consortium, one of the partners shall be designated as a "Lead Partner".	Consortium agreement signed between partner companies/ corporation. The consortium agreement should define clear roles and responsibilities of each of consortium partner.
3.	The Lead Partner must have a Positive Net Worth for each of the last three consecutive financial years (2015-16, 2016-17, 2017-18)	Copy of the audited Profit & Loss Statements for the concerned years
4.	The Lead Partner / bidder must have average annual turnover of INR 40 Crores for each of the last three financial years as on 31st March, 2017 years (2015-16, 2016-17, 2017-18) from the business of IT/ITES System Integration out of which minimum INR 15 Cr annually from GIS projects including Base Map Creation/ Updation, GIS Application Software Development, and Implementation. If lead bidder doesn't have the turnover of INR 15 cr from GIS projects, the same shall be considered of consortium partners also.	Certificate from a registered CA
5.	The Lead Partner / Consortium partner should have at least 50 permanent resources working for GIS based services including GIS based development.	Certificate from the Auditor / Company Secretary/ Head HR; CVs of at least 100 resources as per the format given in this RFP.
6.	The Lead Partner / bidder should have undertaken at least 2 (1 crore each – single order) large scale successful GIS project implementation (out of which at least one such project is completed) for the proposed GIS platform during last 3 years as on bid submission date .	The bidder must submit details of such projects undertaken along with clients' completion certification/ letter. The bidder have to provide letter from the client for completion of work of at least 1 Crore.
7.	The bidder (lead bidder/ consortium member, in case of consortium) should have experience in executing at least 1 GIS project in Mining and/ or Geology domain during the last 5 years as on bid submission date.	The bidder must submit details of such projects undertaken along with clients' completion certification/ letter along with work order copy
8.	The bidder/lead bidder/ consortium partner should have executed at least 2 projects in conducting survey using DGPS during the last 3 years as on bid submission date.	The bidder must submit details of such projects undertaken along with

Sr.	Eligibility Criteria	Attachments
		clients' completion certification/ letter along with work order copy
9.	The Lead Partner should have a valid CMMI Level 3 or higher Certification or ISO 9001:2008 or Latest and ISO 27001:2005 certification for IT based infrastructure services (Information Security Management System)	Valid Copy of the Certificate
10.	The Lead Bidder and consortium members (if applicable) should be registered with GST in India	Valid copy of GSTIN Registration
11.	Bidder and OEM should not be blacklisted by any Ministry of Government of India or by any State Government of India or any of the Government PSUs at the time of bidding.	Declaration letter by bidder and OEM as per format given in the RFP document

**Note:**

1. The Lead Bidder must give undertaking duly signed & sealed by Authorized Signatory that if this contract is awarded to him, he will employ all the resources with the necessary capabilities catering to different phases of project implementation, as defined in the scope of work. Resources need to be Deployed at the CGM office/ places specified by CGM Office in Gandhinagar and anywhere else in Gujarat.
2. The Lead bidder should have valid registration with the GST or any other tax complying authority as and when required by the various LAWS of the land.

**2.4. Consortium conditions**

- The details of the Consortium agreements (if any) between both the parties would be required to be submitted to the office of the CGM/GIL. Consortium would be allowed for any work as mentioned in the scope of the work, provided the lead bidder should accept the sole responsibility of the delay/ error/ non-compliance, work done by the consortium partners. The consortium shall be governed by following terms;
  - Maximum number of consortium members allowed is 2, including consortium lead bidder.
  - A bidder applying individually or as consortium member shall not be entitled to submit another RFP application for this RFP either individually or as a member of any other consortium, as the case may be.
  - Consortium members must provide a Memorandum of Agreement (MoA) covering above points and showing their intention to enter into such an Agreement at the time of bidding along with Pre-qualification Bid.
  - A bidding consortium is required to nominate a lead bidder. The formation of the consortium including identification of lead bidder and role and responsibilities of each bidder shall be supported by Memorandum of Agreement and Power of Attorney signed by all the members on a stamp paper of INR 100/-.
  - The successful bidder i.e. System Integrator (SI) shall require to enter into an agreement, with all the members of the consortium, specifying following points. These points shall also be captured in MoA.
    - Identification of lead bidder and power of attorney in favour of Lead bidder in case of consortium should be given along with the bid.
    - Roles and responsibilities of each consortium partner, the identification of the lead bidder, and providing for joint and several liability for each partner.
    - All consortium members would be engaged and available for work with CGM/GIL throughout the Contract Period.

- Each member of the consortium shall be jointly and severally liable for the due implementation, operation and maintenance of the Project as per the terms and conditions of the RFP and contract agreement.
- The role and responsibility of any member must be commensurate with the technical/financial capabilities that such member is contributing towards meeting the qualification criteria. Each consortium member is liable to contribute resources in terms of knowledge, skills and trained manpower commensurate with its role and responsibilities during the Contract Period.
- The Consortium Agreement must also state that the period of the Agreement would coincide with the Contract period plus performance bank guarantee period. Consortium must continue to be in existence during the period of the contract and that any change will be subject to approval of the Authority (office of the CGM/GIL) only.
- The final contract between the consortium members (The Consortium Contract) would be available for legal vetting and need to be corrected and improved as per suggestion made by the office of the CGM/GIL. The office of the CGM/GIL will suggest binding corrections if it finds that such contract does not meet its requirements and interests as per the Tender in letter and spirit.
- The Agreement should be on stamp paper and notarized. The signatories must be duly authorized.
- Any modification in roles and responsibilities between consortium members during Contract Period shall be allowed only after approval from office of the CGM/GIL. Any changes and deviation of roles and responsibilities of consortium members during the execution, operation and maintenance of this project shall be viewed seriously by the office of the CGM/GIL as it can affect an important work area. Such unilateral action by the SI shall entitle office of the CGM/GIL to take appropriate action including considering it an Event of Default under this Contract leading to consequences including termination with appropriate notice.
- Any dispute arising during Contract Period between the consortium members shall be resolved amicably without adversely impacting project implementation and operation. If in CGM's /GIL's opinion, dispute between consortium members adversely impacting implementation and operation of the project then Authority may its sole discretion in the interest of the project (a) Terminate the Contract after due process and/or (2) Provide a binding solution.
- In case office of the CGM/GIL intends to proceed for Termination on account of SI Event of Default and/ or unresolved disputes between the consortium members, all the consortium members shall be jointly and severally liable for implementation, operation and maintenance of project at agreed prices and payment terms specified in this Tender till Authority or any new agency appointed by it takes over the project.
- Office of the CGM/ GIL reserves the right to reject the bid in case of change in the constitution of the consortium after the submission of bid and before the execution of the Agreement.

## **2.5. Sub-Contracting conditions**

The bidder would not be allowed to sub-contract work, except for the following:

1. Field Survey Work
2. Base Map work

Sub-contracting shall be allowed only with prior written approval of CGM. However, even if the work is sub-contracted, the sole responsibility of the work shall lie with the lead bidder. The lead bidder shall be held responsible for any delay/error/non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to Authority.

## 2.6. Eligible Goods and Services

- a. All goods and services to be provided under the Contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services.
- b. For purpose of this clause, "origin" means the place where the goods are from or from which the ancillary services are supplied. Goods are produced when, through manufacturing, processing, code writing and compiling, or substantial or major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or in purpose or utility from its components.
- c. The origin of goods and services is distinct from the nationality of the Bidder.

## 2.7. Cost of Bidding

- a. The Bidder shall bear all the costs associated with the preparation and submission of its bid, and CGM/GIL will in no case be responsible or liable for these costs, regardless of conduct or outcome of bidding process.
- b. The bidder is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by the office of the CGM to facilitate the evaluation process, and in negotiating a definitive Contract or all such activities related to the bid process. The office of the CGM /GIL will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- c. This Bid document does not commit the office of the CGM/GIL to award a contract or to engage in negotiations. Further, no reimbursable cost may be incurred in anticipation of award. All materials submitted by the bidder shall become the property of the office of the CGM and may be returned at its sole discretion.

## 2.8. Content of Bidding Document

The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents in format or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

## 2.9. Pre-Bid Conference

A prospective Bidder requiring any clarification of the bidding documents may seek clarifications of his/her queries submitted on the date indicated under section 1.2 of this document. CGM/GIL will discuss the queries received from the interested bidders in the pre-bid meeting and respond the clarifications by uploading on the website. The interested bidder should send the queries as per the following format:

<b>Bidder's Request For Clarification</b>			
Name of Organization submitting request		Name & position of person submitting request:	Address of organization including phone, fax, email points of contact
Sr.	Bidding Document Reference (Clause /page)	Content of RFP requiring clarification	Points of Clarification required
1			
2			
3			
4			

Queries submitted post the above mentioned deadline or which do not adhere to the above mentioned format may not be responded to. All the responses to the queries (clarifications / corrigendum) shall be made available on the (n)Procure website (<https://gil.nprocure.com/>).

## 2.10. Conflict of Interest

- A “Conflict of Interest” is any situation that might cause an impartial observer to reasonably question whether System Integrator actions are influenced by considerations of your firm’s interest at the cost of Government. The System Integrator agrees that it shall hold the office of the CGM’s interest paramount, without any consideration for future work, and strictly avoid any Conflict of Interest with other assignments of a similar nature. In the event the System Integrator foresees a Conflict of Interest, the System Integrator shall notify the office of the CGM’s forthwith and seek its approval prior to entering into any arrangement with a third party which is likely to create a Conflict of Interest.
- Bidders shall not have a conflict of interest that may affect the Selection Process or the scope (the “Conflict of Interest”). Any bidder found to have a Conflict of Interest shall be disqualified.
- The office of the CGM requires that the bidder provides professional, objective, and impartial advice and at all times hold the office of the CGM’s interests paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work.
- The System Integrator shall disclose to office of the CGM in writing, all actual and potential Conflicts of Interest that exist, arise or may arise (either for the System Integrator or its team) during the term of the Agreement as soon as it becomes aware of such a conflict.

## 2.11. Amendment to RFP

- 2.11.1. At any time prior to the deadline for submission of bids, CGM/GIL may, for any reason, whether on its own initiative or in response to a clarification request by a prospective bidder, modify the bidding documents.
- 2.11.2. All prospective bidders who have received the bidding documents will be notified of the amendment through website and such amendments will be binding on them.
- 2.11.3. In order to allow prospective bidders reasonable time to consider the amendments while preparing their bids, CGM/GIL at its discretion, may extend the deadline for the submission of bids.

## 2.12. Language of Bid

The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and CGM/GIL shall be in English language.

## 2.13. Documents Comprising the Bid

1. The bid prepared by the Bidder shall comprise of the following documents:
  - 1.1. A Technical Bid and a Financial Bid
  - 1.2. Bid security
2. The technical Bid & Financial Bid must be submitted online through the e-tendering website of <http://gil.nprocure.com> using digital signature.
  - 2.1. The bid documents and addendums (if any) together shall be considered as final and self-contained bid documents not withstanding any previous correspondence or document issued by GIL/CGM.
  - 2.2. The bid security of Rs. 15000/- (Rupees Fifteen Thousand Only) in the form of Bank Guarantee and bid processing fee of **Rs. 75,00,000/- (Rupees Seventy five lacs Only) in the form of Demand Draft** are to be submitted physical favoring of **Gujarat Informatics Ltd, Gandhinagar** in sealed cover clearly mentioning that “EMD & Bid

Processing Fee of the Design, Develop & Maintain Enterprise Geographic Information System (GIS) for CGM” at GIL on the address mentioned in Section-1.

## **2.14. Bid Form**

- 2.14.1. The Bidder shall complete the Technical Bid and Financial Bid furnished with this document giving details as per the format mentioned in the e-Tendering website <https://gil.nprocure.com>. The bidder shall also complete the bid form as per section 9 and 10, and submit it with the financial Bid on <https://gil.nprocure.com>.

## **2.15. Bid Prices**

1. The Bidder shall indicate the prices in the format mentioned in the e-Tendering website <https://gil.nprocure.com>.
2. Following points need to be considered while indicating prices:
  - 2.1. The prices quoted should also include, inland transportation, insurance and other local costs incidental to delivery of the goods and services to their final destination within the state of Gujarat as indicated by GIL/CGM.
  - 2.2. The rates of any applicable GST which will be payable by the Client on the goods/ services (if any) if this contract is awarded, should be quoted separately,
3. The Bidder's separation of the price components will be solely for the purpose of facilitating the comparison of bids by CGM/GIL and will not in any way limit the Client's right to contract on any of the terms offered.
4. Sharing of responsibility (between CGM and the bidder) of procurement of various types of software shall be as under:
  - 4.1. The prices quoted shall be inclusive of license software required for actual running of applications developed (i.e. User level Operating System and database other software required). The prices shall be inclusive of licensing cost during the maintenance period also.
  - 4.2. The price quoted shall be inclusive of Designing, Developing & Maintaining Enterprise Geographic Information System (GIS) and Decision Support System (DSS), Training and operation & maintenance support for the period of contract. This shall also include the cost of integration with existing ILMS (Integrated Lease Management System) and any other CGM application modules as required.
  - 4.3. Bidder is expected to fill the rates/amount for all items in Financial Bid format. However, in case, the bidder chooses to quote zero, nil amount or blank, it will be his risk and the same shall in no way restrict the scope of the work. Any rate quote field kept blank would imply that bidder is quoting zero prices for that item.
  - 4.4. Deliverables created by Bidder specifically for CGM, Govt. of Gujarat and identified as such in the relevant Scope of Work, the IPR of the same shall be the Exclusive property of CGM, the ownership of the Application solution and the source code will solely lie with CGM, Government of Gujarat.
  - 4.5. While passing on the rights (license) of using any software/software tool, the Bidder shall ensure that such rights are inclusive of the use of that software for development in addition to deployment.
  - 4.6. The software licenses supplied by Bidder shall be genuine, perpetual, full use and should provide patches, fixes, security updates directly from the OEM at no additional cost to CGM for the entire period of contract, in case of product. All the licenses and support should be in the name of CGM from the date of procurement.
  - 4.7. In the event of any claim asserted by a third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the Goods or any part thereof Request for Proposal (RFP), the Bidder shall act expeditiously to extinguish such claim. If the Bidder fails to comply and CGM is required to pay compensation to a third party



resulting from such infringement, the Bidder shall be responsible for the compensation including all expenses, court costs and lawyer fees. CGM will give notice to the Bidder of such claim, if it is made, without delay where upon Bidder shall reimburse

## **2.16. Bid Currency**

Prices shall be quoted in Indian rupees only.

## **2.17. Bid Security - Earnest Money Deposit (EMD)**

1. Earnest Money Deposit **Rs. < >/- (Rupees < > only)** in the form of Bank Guarantee in favor of "Gujarat Informatics Limited" payable at Gandhinagar.
2. Proposals not accompanied by EMD shall be rejected as non-responsive.
3. The successful bidder's bid security will be discharged from GIL only after the signing of the contract and submission of performance security.
4. Unsuccessful bidder's EMD will be discharged / refunded as promptly as possible, but not later than 30 days of the validity period of the bid.
5. The EARNEST MONEY DEPOSIT shall be forfeited:
  - 5.1. if a Bidder withdraws its bid during the period of bid validity
  - 5.2. in case of a successful Bidder, if the Bidder fails:
    - 5.2.1. to sign the Contract as mentioned above or
    - 5.2.2. to furnish performance bank guarantee as mentioned above or
    - 5.2.3. If the bidder is found to be involved in fraudulent practices.

## **2.18. Validity of proposal**

1. Proposals shall remain valid for a period of 180 days (one hundred eighty days) after the date of financial bid opening prescribed in the RFP. A proposal valid for shorter period may be rejected as non-responsive. CGM/GIL may solicit the bidders' consent to an extension of proposal validity (but without the modification in proposals).
2. In exceptional circumstances, GIL may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The Bid security period provided shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be permitted to modify its bid.
3. Bid evaluation will be based on the bid prices and technical bid without taking into consideration the above corrections

## **2.19. Preparation of Proposal**

- 2.19.1. The proposal and all associated correspondence shall be written in English and shall conform to prescribed formats. Any interlineations, erasures or over writings shall not be valid.
- 2.19.2. The proposal shall be typed or written in indelible ink (if required) and shall be initialed on all pages by authorized representative of the bidder to bind the bidder to the contract. The authorization shall be indicated by Board Resolution/ Power of Attorney and shall accompany the proposal
- 2.19.3. In addition to the identification, the covering letter shall indicate the name and address of the bidder to enable the proposal to be returned in the case it is declared late pursuant, and for matching purposes.
- 2.19.4. The information submitted must be definitive and specific. Vague terms, incomplete information, counter offers, and 'uncalled for' correspondence shall not be entertained.

- 2.19.5. Alteration / Rewording / Deletion / Correction of any part in the Tender Document are not permitted. If found in any bid proposal, bid may be liable to be rejected without prior intimation to the bidder.
- 2.19.6. Bidder is required to submit the complete proposal along with required forms etc. on <https://gil.nprocure.com>. The proposal shall be exactly according to the presented formats given on the <https://gil.nprocure.com>. The technical response should be concise. Any response not as per the specified format may be liable to be rejected. No marketing literature pertaining to the bidder should be enclosed along with the proposal. If enclosed, it may be treated as disqualification.
- 2.19.7. Committee would ask Bidder(s) for detailed presentations. All such presentations shall be at the cost of bidder.
- 2.19.8. The envelope of the EMD & Bid processing fee should be addressed to:  
**The Director (e-Governance)**  
**Gujarat Informatics Ltd.**  
**Block No. 1, 8th Floor,**  
**Udyog Bhavan, Gandhinagar**  
**Gujarat – 382010**
- 2.19.9. The bidder is expected to examine carefully all instructions, forms, terms and specifications in the Tender document. Failure to furnish all information required in the Tender Document or submission of a proposal not substantially responsive to the Tender Document in every respect will be at the bidder's risk and shall result in rejection of the proposal.

## **2.20. Contents of Envelopes**

Envelop 1: DDs of EMD & Bid processing Fees

## **2.21. Submission, Receipt & Opening of proposal**

1. Submission of Bids:
  - 1.1. The Bidder shall submit the Eligibility Bid, Technical Bid and a Financial Bid as per the format mentioned in the e-Tendering website <https://gil.nprocure.com>. The bidder shall also complete the bid form as per Form I and submit it with the financial bid on <https://gil.nprocure.com>.
  - 1.2. Telex, cable, e-mailed or facsimile bids will be rejected.
2. The Bidder's representative who is present shall sign an attendance register evidencing their attendance. In the event of the specified date of bid opening being declared holiday for the tendering authority, the bid shall be opened at the appointed time and location on the next working day.
3. The bidder's names, bid modifications or withdrawals, bid prices and the presence or the absence of requisite bid security and such other details as GIL, at his discretion, may consider appropriate, will be announced at the time of opening.
4. Bids that are not opened and read out at bid opening shall not be considered for further evaluation, irrespective of the circumstances.
5. Prices shall be quoted in Indian Rupees Only.

## **2.22. Opening of Bids by CGM/GIL**

1. CGM/GIL will open all bids (only eligibility stage at the first instance), in the presence of all Bidders or their representatives who choose to attend, and at the following address:  
**Gujarat Informatics Ltd,**  
**Block no. 1/8, Sector-11,**  
**Udyog Bhavan,**  
**Gandhinagar- 382010**

2. The bidder's representative who is present shall sign an attendance register evidencing their attendance. In the event of the specified date of Bid opening being declared holiday for CGM/GIL office, the Bid shall be opened at the appointed time and location on the next working day.
3. The bidder's names, bid modifications or withdrawal, bid prices, discounts, and the presence or the absence of requisite bid security and such other details, as GIL, at its discretion, may consider appropriate, will be announced at the time of opening. No Bid shall be rejected at the opening, except for late bids, which shall be returned unopened to the bidders.
4. Bids and modification sent that are not opened and read out at bid opening shall not be considered for further evaluation, irrespective of the circumstances.
5. The technical bid of only those bidders who are matching the eligibility criteria will be opened and subsequently, the Financial Bids of only those bidders who qualify on the basis of evaluation of technical bid will be opened in the presence of the qualified bidders of their representatives at pre-specified time and date which will be communicated to the qualified bidders well in advance.

### **2.23. Clarification of Bids**

During evaluation of bids, GIL may, at its discretion, ask the Bidder for a clarification of its bid. GIL may also ask for rate analysis of any or all items and if rates are found to be unreasonably low or high, the bid shall be treated as non-responsive and hence liable to be rejected. The request for a clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted.

### **2.24. OEM/ Implementation partner participation criteria**

- 2.24.1. The bidder will be required to submit a manufacturer's authorization form from all the OEMs stating that the bidder in concern would be bidding for their products/solutions.
- 2.24.2. Bidders are required to specify only one make and model of each item and provide the details in the Technical bid.
- 2.24.3. Firms with common Proprietor/partner or connected with one another either financially or as principal and agent or as master and servant or with proprietor/partners closely related to each other such as husband, wife, father/mother and minor son/daughter and brother/sister and minor brother/sister, shall not bid separately under different names for the same contract. An independence form in the same regard must be submitted by the bidder.
- 2.24.4. If it is found that the same firm has submitted multiple bids under different names for the proposed contract, all such tender(s) shall stand rejected and bid deposit of each such firm/establishment shall be forfeited. In addition, such firms/establishments shall be liable, at the discretion of the Commissioner of geology and mining, for further penal action including blacklisting.
- 2.24.5. If it is found that close relatives (as described above) have uploaded separate tenders/quotations under different names of firms/establishments but with common address for such establishments/ firms and/or if such establishments/ firms, though they have different addresses, are managed or governed by the same person/persons jointly or severally, such tenders shall be liable for further penal action including blacklisting.
- 2.24.6. If after awarding the contract it is found that the accepted bid violated any of the directions pertaining to participation as stated above, the contract shall be liable for cancellation at any time during its validity in addition to penal action against the contractors as well as related firm/establishment.

### **2.25. Preliminary Examination**

1. CGM/GIL will examine the bids to determine whether they are complete, whether any computational errors have been made, whether sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
2. Prior to the detailed evaluation, GIL will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one, which confirms to all the terms and conditions of the bidding documents without material deviation. Deviations from or objections or reservations to critical provisions such as those concerning performance security, Warranty, Applicable law and Taxes and duties will deemed to be material deviations. CGM/GIL determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
3. If a Bid is not substantially responsive, it will be rejected by CGM/GIL and may not subsequently be made responsive by the Bidder by correction of the non-conformity.
4. Conditional bids are liable to be rejected.

## **2.26. Methodology & Criteria for Technical, Commercial and final evaluation**

1. CGM will form a Committee which will evaluate the proposals submitted by the bidders for a detailed scrutiny. During evaluation of proposals, CGM/GIL, may, at its discretion, ask the bidders for clarification of their Technical Proposals.
2. The bidders are expected to provide all the required supporting documents & compliances as mentioned in this RFP. The bidder shall propose the solution having full compliance with all the guiding principles and minimum specifications/ scope of work as mentioned in this RFP. Any deviation from the same will lead to the disqualification.
3. The bids will be evaluated for the eligibility criteria first.
4. The technical bids of the bidder(s) who comply with the eligibility criteria will be opened. During the technical evaluation, CGM/GIL may seek the clarification in writing from the bidder, if required. If bidder fails to submit the required clarifications in due time, the technical evaluation will be done based on the information submitted in the technical bid.
5. The evaluation parameters for the Enterprise GIS Project for CGM will be on a combination of the Technical Score that will carry a weight of 60% and Financial Score at 40%.
6. The evaluation score will be a combination of Technical and financial score (QCBS).
7. At any point of time, if CGM/GIL feels that the bidder is hiding any information which will affect the project cost in short or long run, CGM/GIL may reject his bid without assigning any reason or explanation.
8. Price shall be loaded appropriately for the missing component/quantity/tax etc. Price quoted in the financial bid will be final. Bidder is required to fulfill all obligations as required in the bid as per the prices quoted in the financial bid, for the proposed scope of work and bill of material, applicable taxes or missing component(s), if any for which the description is there in technical response but price is not provided in the financial sheet. Price will be appropriately loaded for the missing tax components/missing components that in the understanding of the evaluators is found to be missing from the proposed bill of material except in case where there is a written justification provided in the technical bid response. Basis of loading shall be the highest cost quoted by the bidders.
9. **The following criteria shall be used to evaluate the technical bids.**

The bidder's technical solution proposed in the Technical Evaluation bid shall be evaluated as per the evaluation criteria in the following table:

Section	Evaluation Criteria	Marks
A	Proposed Solution	10
B	Quality of Proposed Methodology	25
C	Proposed Resources for the project	15
D	Bidder's Competence	30
E	Presentation of the proposal	20

## A. Proposed Solution

### GIS Platform

CGM would evaluate the excellence of the proposed GIS Software Platform on various parameters using the compliance matrix given in **TQ-7**. Various functionalities to be provided through GIS Software Platform are given in **TQ-7**. The extent of compliance to the requirements specified in the Annexure and additional features not specified that can help in adding value to the solution will derive the following scores for the bidder.

Sr.	Criteria	Marks	Self-Assessment Marks (To be filled by the Bidder)	Supporting Document Type	Name to be given to the PDF file uploaded by the bidder
1	Meeting 100% specifications	10			
2	Meeting more than or equal to 70 % of specifications	07			
3	Meeting more than or equal to 50% of specifications	05			
4	Meeting less than 50% of the specifications	0			

## B. Quality of Proposed Project Methodology

CGM would also evaluate the quality of the proposed methodology to implement the solution. Various parameters to be considered under this section are:

- Project Management Methodology
  - Pre-Implementation
  - Implementation
  - Post-Implementation
- Approach and Methodology for Data Modeling Exercise
- Approach and methodology for post processing of satellite images and Base Map Creation
- Indicative Hardware and network sizing
- Approach for Setting up enterprise GIS for CGM and developing a GIS applications
- Risk Management Methodology

Proposed Weightage matrix for this criterion of evaluation will be:

Sr.	Criteria	Marks	Self-Assessment Marks (To be filled by the Bidder)	Supporting Document Type	Name to be given to the PDF file uploaded by the bidder

1	Bidders understanding level of proposed scope of work	2			
2	Project Management Methodology for Pre-Implementation, Implementation and post implementation phase	3			
3	Proposed methodology for DGPS survey for pillars as well as other GCPs	3			
4	Approach and methodology for Base Map Creation/Updation	3			
5	Hardware and network Sizing	3			
6	Approach for setting up enterprise GIS for CGM and developing web based applications for CGM	2			
7	Training and Capacity Building Methodology	2			
8	Risk Management Methodology Proposed	2			
9	Approach for Post Implementation support and GIS department modules development as post implementation	5			
	<b>TOTAL</b>	<b>25</b>			

### C. People

- CGM will evaluate the information submitted by the Bidder with regard to Bidder's proposed team, especially, the Team Leader (GIS), Business Analyst, Programmers, GIS Application Development Team, etc. and the team size. The Bidder must put forth the best team that has relevant GIS Software Development & Implementation experience.
- The Bidder cannot subcontract the work at any stage without prior expression of approval from CGM.
- Any change in the actual team will be allowed only after expressed written approval from the Project Manager, CGM.
- People (Proposed Team) details need to be submitted in formats given in Annexure - II.
- Weightage matrix for this criteria of evaluation will be :

Sr.	Criteria	Marks	Self-Assessment Marks (To be filled by the Bidder)	Supporting Document Type	Name to be given to the PDF file uploaded by the bidder
1	Quality of Proposed Project Manager	5			
2	Quality of GIS application development experts proposed for the project Implementation	3			

3	Quality of the GIS Manpower Proposed for Maintenance & Support for 8 years after Go Live	2			
4	Quality of Surveyors and Geologists	3			
5	Quality of GIS testers	2			
	<b>TOTAL</b>	<b>15</b>			

#### D. Bidders' Competence

Qualifying criteria for bidders is given in Section 2.3. Over and above these criteria bidders shall be rated on following parameters:

Sr	Criteria	Marks	Self-Assessment Marks (To be filled by the Bidder)	Supporting Document Type	Name to be given to the PDF file uploaded by the bidder
1	The Bidder/Lead Partner average annual turnover of Min. Rs. 15 Crores from the GIS / Geology related business including Base Map Creation/ Up-dation, GIS Application Software Development, and Implementation etc... a) 15 Crore = 5 Marks b) Between 15 to 20 Crore =10 Marks c) More than 20 Crore = 15 Marks	15		Clients' completion certification/ letter	
2	The bidder/lead bidder should have undertaken at least 2 (min 1 crore) large scale successful GIS project implementation for the proposed GIS platform in last 3 years as on bid issuance date  No of project =2 --- 1 Marks No of project >2 <=4 --- 3 Marks No of project >4 ---5 Marks	5		Clients' completion certification/ letter	
3	The bidder/lead bidder should have undertaken at least 1 successful GIS project (min. value of Rs. 1 Crore) implementation in Mining or Geology domains in last 3 years as on bid issuance date  No of project =1 --- 1 Marks	5		Clients' completion certification/ letter	

	No of projects $\geq 2 - \leq 4$ -- 3 marks No of Project $\geq 5 - 5$ Marks				
4	The bidder (lead bidder and any one other consortium member, in case of consortium) should have experience in conducting survey using DGPS No of project =1 --- 2 Marks No of projects greater than 2 and less than 5 – 4 marks No of projects greater than or equal to 5 – 5 marks	5		Clients' completion certification/ letter	
	<b>TOTAL</b>	<b>30</b>			

**E. Presentation:**

Sr	Criteria	Marks
1	Understanding of the scope of project from Geology & Mining Prospective	2
2	Proposed GIS solution for the project along with approach and methodology to be followed for the project	2
3	Capability of the Proposed Team	2
4	Strategy to manage Implementation & Post Implementation SLA's and Proposed Management Methodology	2
5	Proposed Approach & Methodology for imparting effective user training and training plan	2
6	Demonstration of the GIS application module using dummy data based on the functional requirements.	10
Total		20

A combined team from Bidder shall be asked to give presentation (Approx. duration of 60 minutes) with respect to technical evaluation criteria during the Technical Bid Evaluation Process. CGM reserves right to take detail demonstrations of the proven GIS solution proposed and visit Bidder's customer where such a similar project execution has taken place.

Evaluation shall be done based on the information provided in the technical proposal (& subsequent clarification, if any) and Clarifications / Answers given to the TEC during the Presentation by the bidders (if the presentations are held).

**2.27. Financial Bid Opening**

The Commercial bids shall not be opened by the office of the CGM until the evaluation of the Technical Proposals has been completed. After the technical evaluation is completed and the office of the CGM has issued its no objection (if applicable), CGM shall inform the Bidders who have submitted proposals and cleared the technical evaluation, and shall notify those Bidders whose Proposals did not pass technical evaluation or were considered non responsive to the Bid Document and scope of work, that their Financial Proposals will not be opened.

The office of the CGM shall simultaneously notify in writing Bidders that have cleared the technical evaluation, the date, time and location for opening the Financial Proposals. The opening date should allow Bidders sufficient time to make arrangements for attending the opening. Bidders' attendance at the opening of Financial Proposals is optional.



The Financial Bids will be opened, in the presence of Bidders' representatives who choose to attend the Financial Bid opening on date and time to be communicated to all the technically qualified Bidders. The Bidder's representatives who are present shall sign a register evidencing their attendance. The name of bidder & bid prices will be announced at the meeting.

The office of the CGM shall prepare a record of the bid opening that shall include, at a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; the Bid Price, and the presence or absence of a bid security. The Bidders' representatives who are present shall be requested to sign the attendance sheet.

The Commercial Bids will be evaluated by the office of the CGM for completeness and accuracy. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail.

The amount stated in the proposal form, adjusted in accordance with the above mentioned procedure, shall be considered as binding, unless it causes the overall proposal price to rise, in which case the proposal price shall govern.

If the bidder does not accept the correction of errors, its bid will be rejected and the bid security may be forfeited.

Activities and items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items. In case an activity or line item is quantified in the Financial Proposal differently from the Technical Proposal, the Evaluation Committee shall correct the quantification indicated in the Financial Proposal so as to make it consistent with that indicated in the Technical Proposal, apply the relevant unit price included in the Financial Proposal to the corrected quantity and correct the total Proposal cost.

The bidder with lowest cost submitted (L1 rate) will get 100 % score for commercial bid evaluation.

For all other bidders, the commercial score will be calculated using the following formula:

$$\text{Commercial Score of Bidder} = \frac{\text{Total Cost of Lowest Bidder (L1)}}{\text{Total Cost of the Bidder (adjusted to 2 decimals)}} \times 100$$

The bidder scoring highest in the final score will be selected. The Final Score formula is as below:

$$\text{Final Score} = (\text{Technical Score of Bidder} \times 60\%) + (\text{Commercial Score of Bidder} \times 40\%)$$

## 2.28. Disqualification

CGM may at its sole discretion and at any time during the evaluation process, disqualify any bidder, if the bidder has:

1. Submitted the Proposal documents after the response deadline.
2. Made misleading or false representations in the forms, statements and attachments submitted in proof of the eligibility requirements.
3. Submitted a proposal that is not accompanied by required documentation or is non-responsive.
4. Failed to provide clarifications related thereto, when sought.
5. Declared ineligible by the Government of Gujarat, or any of the departments in the Gujarat State Government, for corrupt and fraudulent practices or has been blacklisted at the time of submitting the bid.
6. Submitted a proposal with price adjustment / variation provision.

## 2.29. Award of Contract

On acceptance of Proposal for awarding the contract, CGM/GIL will notify the successful bidders in writing that their proposal has been accepted and Contract Agreement will be signed. After signing of the Contract Agreement, no variations in or modifications of the terms of the Contract shall be made except by written amendment signed by all the parties.

### **2.30. CGM/GIL's Right to Accept Any Bid and to reject any or All Bids**

CGM/GIL reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for CGM/GIL action.

### **2.31. Office of the CGM/GIL's right to terminate the selection process**

- The bidder's participation in this process may result in office of the CGM/GIL selecting the bidder to engage in further discussions and negotiations toward execution of a contract. The commencement of such negotiations does not, however, signify a commitment by the office of the CGM/GIL to execute a contract or to continue negotiations. Office of the CGM/GIL may terminate negotiations at any time without assigning any reason.
- Office of the CGM/GIL may terminate the RFP process at any time and without assigning any reason. Office of the CGM/GIL makes no commitments, express or implied, that this process will result in a business transaction with anyone.

### **2.32. Notification of Awards**

- 2.32.1. Prior to the expiration of the period of the bid validity, CGM/GIL will notify the successful bidders in writing, to be confirmed in writing by registered letter, that his bid has been accepted.
- 2.32.2. The notification of award will constitute the formation of the Contract.
- 2.32.3. Upon the successful Bidder's furnishing of performance security CGM/GIL will promptly notify each unsuccessful Bidder.

### **2.33. Signing of Contract**

- 2.33.1. At the same time as concerned CGM/GIL notifies the successful Bidder that its bid has been accepted, CGM will send the bidder the Contract Form, incorporating all the agreements between two parties.
- 2.33.2. Within 15 days of receipt of the Contract Form, the successful bidder shall sign and date the contract and return it to CGM and send copy to GIL.

### **2.34. Confidentiality**

Information relating to the examination, clarification and comparison of the proposals shall not be disclosed to any bidder or any other persons not officially concerned with such process until the selection process is over. The undue use by any bidder of confidential information related to the process may result in rejection of its proposal. Except with the prior written consent of CGM, no party, shall, at any time communicate to any person or entity any confidential information acquired in the course of the Contract.

### **2.35. Cost of Bidding**

All costs related to bidding shall be borne entirely by the bidder. Under no circumstances shall any queries / request for compensation in cases of rejection / disqualification etc. be entertained by CGM/GIL.

**2.36. Performance Bank Guarantee**

- 2.36.1. The successful Bidder has to furnish a security deposit so as to guarantee his/her (Bidder) performance of the contract.
- 2.36.2. The Successful bidder has to submit Performance Bank Guarantee @ 10% of total order value within 15 days from the date of issue of Purchase order (for warranty period + extra 3 months) from All Nationalized Bank including the public sector bank or Private Sector Banks or banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2016/328/DMO dated 01.05.2017 issued by Finance Department or further instruction issued by Finance department time to time. (The draft of Performance Bank Guarantee is attached herewith).
- 2.36.3. The proceeds of the Performance Bank Guarantee shall be payable to the Department as compensation for any loss arising from the bidder(s)'s failure to complete its obligations under the contract.
- 2.36.4. The Performance Bank Guarantee will be discharged by the Department and returned to the bidder(s) on completion of the bidder's performance obligations under the contract.
- 2.36.5. In the event of any contract amendment, the bidder shall, within 21 days of receipt of such amendment, furnish the amendment to the Performance Bank Guarantee, rendering the same valid for the duration of the contract, as amended for further period.
- 2.36.6. No interest shall be payable on the PBG amount. CGM may invoke the above bank guarantee for any kind of recoveries, in case; the recoveries from the bidder exceed the amount payable to the bidder.

**2.37. Binding Clause**

All decisions taken by CGM regarding the processing of this tender and award of contract shall be final and binding on all parties concerned.

As per the provision in Electronics & IT/ITeS Start-up Policy Resolution No. ITS/10/2015/5284/IT dated 6th June, 2016 issued by Department of Science & Technology, in e-Governance project undertaken by Government Departments or its Boards, Corporations or parastatal bodies getting grants from the Government, the chosen solution provider or system integrator will pass on job work or will outsource part of the work of a value ranging between 5 to 10 per cent of the contract value to eligible startups and to students of shortlisted Technical Colleges in Gujarat. In such arrangements, the responsibility of meeting SLAs (Service Level Agreements) will continue to belong to the solution provider or the system integrator.

### 3. SECTION 3: About CGM

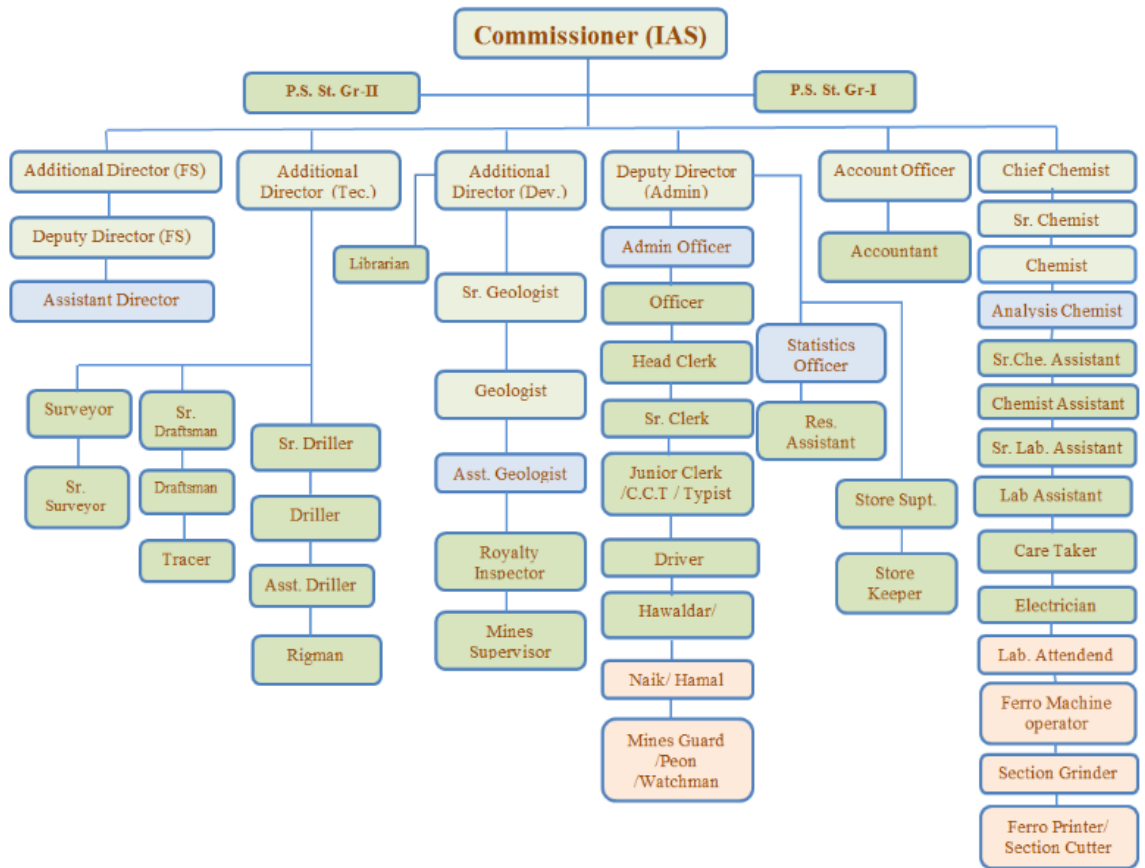
#### 3.1. About Organization

The Commissioner of Geology and Mining is working under the Industries and Mines Department Government of Gujarat. The main functions of Commissioner of Geology and Mining are:

- a. Search and Exploration of Mineral wealth of the State by adopting state-of-the-art exploration techniques
- b. Mineral Administration with conservation and preservation.
- c. Increase State's mineral revenue through higher production of minerals & their sustainable development framework
- d. Encourage value addition of minerals usage through promotion of mineral based industries in the State
- e. Prevention of illegal mining

The organization is headed by the Commissioner of Geology and Mining under administrative control of Industries and Mines Department, Government of Gujarat. The organization is having strength of technical Geologist, surveyors, Mining engineers, draft man and other administrative post sanctioned by Government.

- f. The total strength of the Department personnel is around: 700+ employees
- g. The District level offices are: 32 Offices
- h. The Regional Circles are: 3 Circle Office (Rajkot, Ahmedabad, and Kutch-Bhuj).



### **3.2. Background**

The Commissioner of Geology and Mining is working under the Industries and Mines Department, Government of Gujarat. Directly or indirectly, minerals act as basic raw materials for strategic industries, and they are important ingredients of a State's economy. These resources, being finite and non-renewable, need to be managed wisely. Gujarat State first Mining Policy, 2003 also provides guidelines for optimum utilization of minerals with minimum wastage and maximum mineral revenue generation through value addition. Exploration and consumption of minerals are barometers of industrial & economic development of a region.

The office of CGM handles Mineral Administration for the state of Gujarat which includes identification, exploration, auction, mining, and transportation etc. activities for Major and Minor minerals. There are more than 7500 leases spanned across the state at present.

To execute the core functions of the organization, CMG has also developed & implemented web-based Integrated Lease Management System (ILMS) application which has modules such as e-payment, e-Royalty pass, e-return, e-Demand Register, e-Delivery Challan, Online Lease Application and other related modules covering in one single portal for Stake Holders of Geology & Mining in Gujarat State.

The success of existing ILMS applications has encouraged the CGM to enhance the IT system with an envisaged Enterprise GIS for the existing lease holder, new applicant, mineral based industries can view the status of lease, cumulative info of royalty paid / mineral production / mineral dispatch etc. / adjacent lease / boundary of lease, explored / unexplored area, ground control points etc. with relevant features in a GUI mode.

### **3.3. Stakeholders and Users of the Proposed Solution:**

- A. CGM – The Commissioner of Geology and Mining, Gujarat
- B. Department Officials and field officers
- C. District Geologists
- D. CGM Administrator
- E. Lessee / Lease Holder
- F. Stockiest / Buyer / End-Consumers
- G. ILMS Application Provider
- H. Other Government Departments

## 4. SECTION 4: SCOPE OF WORK

### 4.1. Objectives

As part of the Lease hold area/ mineral bearing / exploration area falling under the jurisdiction of CGM Gujarat, the envisaged Enterprise GIS Solution shall enable and provide:

- Map for one-stop view encompassing integrated solution.
- Ease of visualization for enforcement team under CGM and other law-enforcement departments.
- Ease of visualization of lease-hold and mineral bearing areas.
- Ease of visualization & collation of exploration data and to support exploration activities, including mapping of exploration level wise areas, and Integrating Revenue, Forest and other maps.
- Locate, Track & Evaluate Assets with GIS combined with GPS technologies.
- Spatial-analysis of lease data vs royalty with other parameters. Location tracking of lease owned areas while generating the royalty.
- Geotagged grievances from the field.
- Superimposition of different layers for Geospatial and Proximity analysis for identification of areas that can be put of auctioning and improved turnaround time.

### 4.2. Scope of Work for Design, Develop & Maintain Enterprise GIS

In order to achieve the above mentioned objectives, CGM, Gujarat, intends to engage a system integrator to implement enterprise wide GIS for the core business function of CGM. The key scope items include:

1. Design Enterprise GIS architecture to meet the requirements of CGM
2. Supply & installation of GIS Platform for creation, storage and maintenance of geospatial data
3. Sizing of servers, storage and network for hosting the Enterprise GIS solution for CGM.
4. Procurement of Satellite Imagery for based on guidelines of IBM circular no N-11013/3/MP/90-CCOM dated 06/04/2010
5. Design and create GIS data model for enterprise wise GIS for CGM
6. Survey of existing leases (major and minor) using Differential Global Positioning System.
7. Mapping of exploration and mineral bearing areas.
8. Mapping / Digitisation of cadastral maps, land-use land-cover using cadastral maps & toposheets provided by CGM
9. Preparation of base map along with CGM specified layers as mentioned in RFP.
10. Design of Enterprise GIS application for CGM having modules catering to Exploration, Enforcement and Administration Departments.
11. Integration with existing CGM systems and applications
12. Testing, training and Go-Live of the system.
13. Annual tech support for 8 years for the customized Enterprise GIS system.
14. Post-implementation software enhancement, customization & maintenance of GIS platform and software for 8 years.

#### 4.2.1. Design of Enterprise GIS architecture to meet the requirements of CGM

CGM needs a GIS platform to support enterprise wide GIS, development of web-based GIS applications and desktop based GIS for smooth editing of GIS data. Following are the details of the approximate usage of the proposed GIS application:

Following are the estimates of the approximate usage of the proposed GIS application:

- Minimum No. of users on Intranet simultaneously viewing GIS data - 100
- Minimum No. of users on Intranet simultaneously editing GIS data - 5
- Minimum No. of users on Internet simultaneously viewing GIS data through CGM web GIS portal – 200

Above indicative numbers of users is given to get a fair idea to the prospective bidders on overall usage of the Enterprise GIS System. Bidders are required to propose the system which can be scaled up to higher usage in future.

As a part of implementation services the selected bidder will have to setup an enterprise GIS environment for office of Commissioner of Geology & Mining using the proposed GIS platform. This setup will have a centralized GIS database having all departmental GIS datasets within one enterprise GIS database of CGM. All the departments will be accessing this centralized GIS database for editing and managing their own departmental layers using web based, desktop based and mobile based interface. The SI / Selected Bidder will have to provide support to all the department officials in using the enterprise setup. The SI/ selected bidder will also have to manage and support the centralized GIS setup. The GIS System and Database Administrators from the SI / selected bidder's side will have to manage and support the system.

#### **4.2.2. Supply & installation of Infrastructure & GIS Platform for creation, storage and maintenance of geospatial data**

SI shall deliver the Enterprise GIS Software licenses to CGM and carry out its installation for CGM. However, bidder shall ensure that these licenses are as per the latest version and functionalities of the platform are in synch with the requirements of CMG. Bidders are also free to propose any other GIS solution that complies with the requirements and specifications mentioned in various features required in the Enterprise GIS platform and Application Software is given in TQ\_7 of this document.

CGM will host the enterprise GIS solution in the cloud environment and the selected SI will have to support CGM and cloud service provider to carry out the same. However, the bidder will be responsible for bringing the required OS and database licenses for the servers that will be provided by CGM. Also, it will be SI's responsibility to install and configure the licenses brought by them.

The selected bidder will have to carry out a detailed sizing of servers, hardware and network that will be required for CGM enterprise GIS implementation. The same shall also be provided as part of proposal submitted to this RFP and will also be considered in the evaluation of the proposal.

The sizing can be done based on the functionalities and users details provided. The details provided in the RFP are indicative and may change as per CGM's requirement. The solution will be hosted on a cloud environment and hence the bidder shall ensure that proposed GIS platform has compatibility with a cloud environment which will provide access to CGM user on web, desktop and mobile. The solution shall have access/capability to download copies of data sets and/or backup images through the Web interface for local storage/possession.

#### **4.2.3. Procurement of Satellite Imagery**

The bidder shall procure a satellite imagery as per guidelines mentioned in the IBM Circular No. N/110913-3-MP-90-CCOM-V-VII dated 6/4/2010. The high resolution Satellite data (cloud free) should be derived from merging of Cartosat – 2 (1m resolution if not available then go for Cartosat –

1 (2.5 Meter resolution)) and LISS-IV (5.6m resolution, IRS P6) for the state of Gujarat. Procurement of satellite imagery should be done on behalf of Office of commissioner of Geology & Mining, Gujarat and the delivered product from NRSC should be in the name of CGM, Gujarat.

Post the processing of the satellite imagery by removing the geometric anomalies (if any), the Bidder/SI shall prepare a Grid of 1Km x 1Km for positioning CGM assets with respect to its Geographic Location. These grids then further shall be divided into 250m x 250m scenes for future usage like Map Book creations, Smart Asset ID creation etc. and future analysis. All the grids and scenes shall have unique IDs.

The Bidder/SI shall then take sufficient number of Ground Control Points (GCPs) collected through Differential Global Positioning System (DGPS) survey. The Bidder/SI shall prepare an up-to-date large-scale base map (Scale 1:2000 – 1:4000) using satellite imageries. The Bidder/SI shall then prepare a new GIS Database as unified Geo-spatial Data with infrastructure details.

Using the heads on digitization technique, the satellite image is to be digitized to prepare a base map by digitizing all the features available in the satellite map like Roads, Bridges, Railway Tracks, Parks, Water Bodies (River, Lake, Pond, Drainage, Canal etc). While doing the digitization, a special care of data correctness to be taken like no overshoots / undershoots, proper layering, proper symbology etc. Bidder has to undertake the Base Map Creation/Updation activity at CGM premises only (Room of 10 X15 Sq Feet), bidder has to bring all the required IT and Non- IT infrastructure for undertaking this activity. CGM will only provide raw power and empty room.

The digital map data should be GIS compatible. Each map object should be defined uniquely by its feature code and symbology (point, line, and polygon) and should be approved by CGM. Demonstration on digital map production line, producing digital base map using any of the digital mapping system should be made to the CGM.

#### **4.2.4. Design and create GIS data model for enterprise wise GIS for CGM**

The Data Model for storing the spatial & Non-Spatial shall be created by the SI/Bidder with the help of detailed round of discussion with each concerned CGM department officials. The bidder shall use proper tools to create the data model. The final data model shall be approved by the CGM and before proceeding further the data model needs to be finalized. Once the data model is finalized, the Bidder/SI shall give the details of the data model diagram (ER Diagram) to CGM for future references or for any modifications in future. The data model shall be created in such a way that all the layers that are already available with CGM are considered while finalizing the data model. The data model may include the few layers that may not have any data. However, provision of the same shall be kept in the enterprise GIS database.

The bidder shall take care of the changes in the Data Model as per the requirements from the CGM users and shall maintain the changes history for the entire period, the selected bidder is working with CGM under the contract.

#### **4.2.5. Survey of existing leases (major and minor) using DGPS**

Bidder has to carry out the DGPS survey and other related work for different lease area controlled by CGM in different parts of the state. DGPS survey should be carried out as per the IBM Circular No. N/110913-3-MP-90-CCOM-V-VII dated 6/4/2010

The proposed scope of work will be as under:

- i. Survey of all the lease boundary pillars by using DGPS and fix up its ground position and preparation of Geo – reference plan
- j. The numbers of lease boundary pillars are tentative and depend on the type of lease and its area.



- k. The boundary pillar shall be fixed on ground with reference to at least three permanent ground features in and around mining lease.
- l. Preparation of soft copy of all above map in standard format and digitizes map in shape file which can be imported by any GIS database

**Deliverables:**

- m. Demarcated boundary as per lease
- n. Precise meridian values (latitude / longitude values and UTM co-ordinates) of boundary points as per standard geo referencing frame work
- o. Generation of GIS compatible file of the lease map and superimpose on the base map in UTM projection and WGS 84 datum

All circular / amendments / notification or any new circular / amendments issued or notified at any time by concerned competent authority / GOI shall be complied compulsory during the implementation of project without any extra cost.

**4.2.6. Mapping of exploration and mineral bearing areas**

The exploration department within the Office of the CGM has the function to conduct Search and Exploration of Mineral wealth of the State by adopting state-of-the-art exploration techniques. The department has more than 4900 scanned maps for around 700 exploration related reports.

The selected bidder needs to study the existing resources including maps and data etc. available with CGM and convert it into geospatial format and superimpose the same on the proposed base map. These maps include the exploration maps as well as exploration related reports. The exploration maps are in digital / scanned format. The bidder is required to geo reference and digitize all the maps. The exploration maps either on Cadastral maps or on Toposheets. The recent exploration data is available in the raw / converted location data from the DGPS survey carried out during exploration. Bidder has to ensure that all the exploration related information for each mineral bearing area and its related bore hole data / maps / report is attached / hyperlinked with the location information. The CGM exploration team and relevant stakeholder should be able to locate the exploration history data over a seamless map.

**4.2.7. Mapping / Digitisation of cadastral maps, land-use land-cover using cadastral maps & Topographic sheets**

The selected bidder will have to digitize the topographic sheets and cadastral maps for the entire Gujarat state. The hard copy of the cadastral maps and the topographic sheets will be provided to the selected bidder by CGM. Apart from that, if there are maps / data that are made available by GSI will have to be digitized by the selected bidder. All the digitised data will become a part of the enterprise GIS database of CGM and will be super imposed on the satellite imagery. The accuracy of the exploration maps and other geological data will be validated and approved by the concerned department of the CGM office.

**4.2.8. Existing Database Preparation**

(A) Current Database Operations:

- a. Collection in AS-IS Format (From CGM)
  - i. CGM, Govt of Gujarat shall provide all available information/data to successful bidder pertaining to Mines and minerals of Gujarat state and respective Lessees.
- b. Data Conversion to GIS Platform

- c. Data Authentication
- d. Data Validation from CGM

(B) Database Preparation:

- a. Data Collection (New)
  - ii. Recognition and Survey of required lease boundary pillars using Dual Frequency DGPS and preparation of Geo – referenced plan
  - iii. The Geo-referenced lease map prepared and shall be super imposed on vectorised cadastral map.
  - iv. The boundary pillar shall be fixed on ground with reference to at least three permanent ground features in and around mining lease.
- b. Data Compilation
  - v. Accumulating database through Physical Survey, Satellite Image Interpretation, Digitization and compiled in a systematic hierarchy.
- c. Data Authentication and Validation
  - vi. CGM Officials authenticating and validating the submitted database.
- d. Geo-Database Preparation comprising of Legacy Database and New Database

(C) Output of GIS Maps Preparation at in 1:1,000/1:2,000/1:5,000/1:10,000 Scale depending on the area of the lease and also in GIS compatible open standard format to import in any of the GIS database

(D) Development of Layer Wise information of existing leases as well as Mineral bearing area of Gujarat state.

- a. Scope involves Creation of GIS database using duly Digitized & geo-referenced Leases & Geological Maps of the state.
- b. GIS Plotting of leases of all types. Also, all other mineral leases granted, area under any litigation.
- c. Checking & Verification of overlap for new /old/ under appeal / applied / revision/ pending / surrender / court case etc. type of lease application with existing working leases.
- d. Adjoin layer of Forest, Roads, Reserved area (for PSU), and settlements with help of digital toposheets and satellite image.
- e. Cartographical map with appropriate legend & attributes displayed with important attributes.
- f. Scope involves Creation of GIS database using duly Digitized & geo-referenced Leases & Geological Maps of the state. CGM, Gujarat would provide the geological maps to bidder.
- g. Digital Toposheets would be procured by bidder, (CGM, Gujarat will only provide authorization) along with Marking of T1 points and other Fixed reference points if any used by department in granting mineral lease.

#### **4.2.9. GIS Database Preparation**

The developed system is expected to display outline of every lease appropriately geographically placed on the globe along with its attributes and spatial data, i.e. name of the lessee/applicant, extent of the area, village, survey no, taluka / sub division, district date of lease grant/expiry, date of application, current state of excavation, adherence to authorized mining boundary etc. drawn from the both the registry and GIS databases.

Stage wise key activities involved during project execution shall be as follows; The main objective of the project is Generating GIS data sets on relevant scale for entire mineral bearing areas and lease hold areas of Gujarat State by digitizing existing cadastral records, lease hold area map and satellite images. All the numeric information in the source file should be available in the digital outputs as attributes.

Application depicting all the lease details in cadastral maps shall be created by digitizing and incorporating various layers in GIS environment. The software should be capable of showing various levels of information viz., Base map of Gujarat on a scale of 1: 50000, 1:25000, 1:10000, 1:5000, satellite image, District map, taluka map followed by village level maps showing all the survey numbers along with the details of mining leases & mineral bearing areas.

The village boundaries are matched (mosaic) by appropriate tools and technologies in to a taluka map which will be a part of district map. In the village map, the following layers are to be created. Details of the layers as listed below:

#### Indicative Proposed GIS Layers & its attributes

Sr.	Layer Name	Vector Representation	Data Source	Attribute Data
1	Admin Boundaries			
A	State	Polygon	Cadastral map	Name, Area, Population, Type of mineral available, Administrative Division
B	District			
C	Taluka and Revenue Village			
2	Survey number Boundary	Polygon	Cadastral map	Area, Survey Numbers
3	Settlements / industrial area	Polygon	Cadastral map/ Satellite Imagery	Name of the settlements, Area
4	All type of Forest & Sanctuary	Polygon along with buffer	To be provided by the CGM	Name of the forest and Area
5	Water Bodies			
A	Rivers, Streams, gullies, Canals, Dams	Line (Double lines)	Cadastral map/ Satellite Imagery	Name and type of water bodies, Length
B	Ponds/Tanks/Lakes	Polygon	Cadastral map/ Satellite Imagery	Name and type of water bodies, Area
C	Coastal belt	Line	Cadastral map/ Satellite Imagery	Name of adjoining layer
D	CRZ area	Polyline	To be provided by CGM	Description
6	Roads( Metaled, Un metaled), cart track connecting leases	Linear	Cadastral map / Satellite Imagery / Toposheet	Name and type of each road, length, Connecting from to
7	Railway lines ( Broad gauge, meter gauge)	Line	Cadastral map / Satellite Imagery/ Toposheet	Name and type of each line, length, Connecting from to
8	Power lines (High/low)	Line	Cadastral map / Satellite imagery / Topo	Type of each line, Length

Sr.	Layer Name	Vector Representation	Data Source	Attribute Data
			sheets	
9	Telephone line	Line	Cadastral map / Satellite Imagery / Topo sheets	Type of line
10	Survey stones such as Bi-Junction, Tri-Junction	Point	Cadastral map / Toposheet	Type of stones
11	DGPS	Point	Field Survey	Points ID, Latitude, Longitude, Height, UTM Easting, Northing, Zone
12	Lease hold area	Polygon	CGM, Govt. of Gujarat	Name of Lease & type of Lease, Mineral name Area granted Address of Lease Holder District / Taluka / Village Survey no classification of the area , Lease Grant Date, lease period Lease Renewal / Expiry Date Royalty paid / Production / Dispatch
13	Permanent Structures	Polygon	Cadastral Map / Satellite Imagery / Toposheets	Name, Type (Places of worship, Graveyard, Archaeological sites)
14	Lease boundary pillars	Point	Field survey	No. of boundary pillars Name of pillars / identification mark Latitude / longitude
15	Geo tech photographs	Photo point image	Field survey	Photo image & Id Description of image
16	Statutory Boundaries	Polygon	Lease boundaries (7.5 meter)	Boundary & Periphery
17	Check post location	Polygon	CGM	Name, area, district, no. of weighbridge, officer incharge, capacity, unique ID
18	Stockiest location	Polygon	CGM	Name, ID, district, mineral, capacity, owner

#### **4.2.10. Digitization and Map Preparation**

The digitization process shall include Vectorization, attribute information, symbolization, layering, edge matching, topographical connectivity, and data base linking. While digitization the following to be ensured:

- a. The Digitization and geo-referencing of cadastral maps to be carried out by adhering to open standards and protocol like World Geodetic System 84(WGS 84) with UTM projection.
- b. The digitized line shall be followed in the center of the raster data.
- c. For the double line features / polygons, center lines need not be digitized.
- d. Selection of comfortable zoom level for getting smooth appearance.
- e. Logical connectivity of the features is to be followed. i.e. a river would not join a road.
- f. A boundary of area feature coincides with the linear features forming the boundary of the areas.
- g. The digitized maps should be compatible for Open Source Software for further editing and modification by the Department of Geology and Mining
- h. Edge fixing shall be carried out without loss of any data.
- i. All the attributes shall be linked with corresponding map features.
- j. The method to be adopted for digitization shall confirm as per the standards discussed below:
  - o Minimum map-able unit on maps-1 -5 mm on scale
  - o Location accuracy in GIS – 1 -5 mm on scale
  - o Minimum spatial unit in GIS- 2-5 mm on scale
  - o Registration Error threshold in GIS-0.25 - 5 mm on scale
  - o Coordinate movement/weed tolerance-0.25 -5 mm on scale

All features like Roads, Railway tracks, settlements, and recent developed features etc., should be extracted from the satellite imagery as per requirement of CGM.

#### **4.2.11. Design & Development of Enterprise GIS application for CGM**

The selected bidder should develop a web base GIS applications suite for CGM. This will cater to the viewing, analyzing, & utilizing the Geographic Information needs of the different departments of CGM. This should also play a role of decision support system for CGM departments for which the field information and geographic data plays a vital role.

Once the base map is digitized and enterprise GIS setup is done by the selected bidder, the GIS applications suite is to be developed for core GIS web based platform as departmental GIS for CGM. The selected bidder is expected to follow the complete SDLC for the development of the GIS application suite. Proposed/Developed GIS Application Suite should follow National Spatial Data Infrastructure (NSDI) Meta standards.

Web based application software is to be developed by integrating the entire cadastral database, existing Lease hold area and mineral bearing database. This application should provide access data / carry out various functions online. The application should be compatible to integrate Lease Management System module at a later stage in the proposed module.

The vendor should do system study with CGM, Govt. of Gujarat for the actual requirement of software and submit SRS for approval to the core team of CGM, Govt. of Gujarat. After approval of SRS the software shall be designed, developed and tested by Successful bidder for development & implementation.

The indicative modules of the web GIS application to be developed for CGM are as explained below:

#### **Generic Modules**

**Following are the indicative list of functionalities that will be a part of the generic module**

1. User Management:

User Management Consist of Rights allocation to various user or stakeholder of the system like internal departmental user, external users mine owners, general public or potential user who are interested for accessing data.

User management consists of categorization of viewing and analysis of data according to the user group requirement. It also consist the control of data viewing, analysis, querying, editing and GIS based different decision making system for different user.

2. GIS Viewer (also for public):

✓ **Dashboard:**

The basic dashboard will have GIS module links which will be added as a part of post implementations phase. Also there will be a common GIS module on the dashboard where below mentioned generic GIS functionalities will be available.

✓ **Layer Management:**

The solution available enterprise wide will be based and shall have capacity to manage layers by switching on or off layers. Also transparency and visibility scale shall be fixed for each layer.

✓ **Attribute Viewer:**

The Attribute Viewer allows you to view the attribute fields of selected features

✓ **Query Panel:**

Select features in a layer using a SQL-based expression against their attributes and their locations (for public and internal usage the queries will be defined by CGM).

✓ **Predefined queries:**

Predefined query to make it easier for users to view particular subsets of a map's data from an end-user perspective, executing the query is simple and is performed with a single button click. It is designed to work on a single layer / multiple layers.

✓ **Map Contents:**

Map contents list all the layers on the map and shows what the features in each layer represent. The check box next to each layer indicates whether its display is currently turned on or off.

✓ **Navigation:**

Navigating the map

✓ **Buffer :**

It creates a zone around a map feature (Point & Line) measured in units of distance or time. This buffer is useful for proximity analysis.

✓ **Proximity:**

Selecting the features based on their location relative to features in another layer. For instance, if you want to know how many homes were falling in certain Zone for tax implementation, you can select all the homes that fall within the Zone boundary.

3. Workflow Designer:

Workflow Designer needs to be given to CGM, so GIS System Administrator can develop prebuild analysis in GIS system as and when required. These workflows should be integrated with GIS viewer as a tool to perform task and analysis. It should have below mentioned components.

✓ Workflow Designer

Designer allows user to create a visual representation of workflow. User should sequence a series of activities that represent the business process. A visual simulator allows user to simulate a workflow as user designing it, providing inputs and inspecting outputs. User can standardize and easily redesign steps in GIS-related processes to specific needs. Design and deliver reusable, cross-system workflows that combine spatial and non-spatial data processing.

✓ Activity Library

Administrator can create custom activities as well as extend pre-built workflows for most common tasks. The Activity Library contains processes like email, printing, buffering, geocoding, interactive map functions as well as GIS platform activities.

✓ Workflow Engine

Controller manages the client, server and the human interactions in Workflow. It can be exposed through the REST API as part of the framework.

✓ Workflow Simulator

Administrators can create Workflows using the Workflow Designer, and then immediately test the Workflows using the built-in Workflow Simulator. The Simulator provides a debugging interface where administrators can supply values to forms, perform user interactions and step through the Workflow one activity at a time while inspecting inputs and outputs.

4. Report Designer

Template-based report designer allows GIS System Administrator to develop custom built templates created and can include a main map, legend, overview map, north arrow, corporate logos or images, titles, copyright messages, mark-up and graphics, scale and projection information. These templates should be integrated with GIS viewer to run reports for single or multiple features and export the results to a PDF or CSV file.

5. Mobile viewer GIS based application.

Mobile viewer or mobile application should be developed for various user group by giving them mobile based GIS solution for querying and retrieving relevant data like mining lease boundary, GPS data collection, Photographic capture for proof, Mobile and tablet based dashboard for GIS analysis etc. Some of the information but not limited to like base map fetching, data fetching, data editing should be available with pre- downloading or caching of data for offline (when not connected with sever) for executing of some of the field job. When user comes with server connectivity then it should sync back to the relevant server.

## Departmental Modules

### 1. Exploration & e-Auctioning module

Following are the indicative functionalities that are expected to be developed through the exploration and e-Auctioning module:

- ✓ Map based search for :

- Mineral wise exploration areas
  - Exploration level wise areas
  - Area wise (district / taluka /zone etc ) exploration spots
  - Mineral bearing areas wise searches
  - Other attribute / location wise map searches over the exploration map layers
- ✓ Identification of proximity information before e-Auctioning of the leases
    - Nearby existing leases
    - Revenue Maps and cadastral maps
    - Reserved forest and environment areas
    - Settlements / landuse and land cover details
    - Others
  - ✓ Extraction of exploration reports through:
    - Map location
    - Exploration type
    - Exploration level
    - Mineral type
    - Mineral bearing area
    - Predefined area etc.

## **2. Enforcement Module**

- ✓ Map based searches for:
    - Existing lease areas
    - Lease boundaries
    - Lease areas
    - Mineral wise leases
    - Area wise leases
    - Surveyed boundary areas
  - ✓ Spatial analysis using actual lease area / boundary Vs surveyed boundary / lease area
  - ✓ Proximity analysis using current and old lease boundary areas
  - ✓ Identification of check post, stockiest location and monitoring of vehicles over map.
- The above mentioned functionalities are just an indicative list additional functionalities will get added based on department requirements.

### MIS-GIS Integrated Web Application

#### **4.2.12. Integration with existing CGM systems and application**

CGM already has and is in process of developing new IT systems like

- ✓ Command & Control Centre for monitoring of Check posts, weighbridges and mineral carrying vehicles
- ✓ Integration vehicle tracking and monitoring system
- ✓ Integrated Lease Management System (both current and upcoming upgraded ILMS)
- ✓ Mining Surveillance system
- ✓ Geo-Mine
- ✓ ERP

The successful bidder will have to integrate GIS with all of the above application based on the requirements of the department.



- The Successful Bidder(s) shall develop and implement an integrated MIS-GIS Web application for monitoring, managing and analysis of field surveyed data, fetching data from existing ILMS system.
- It shall be a single window application to visualize MIS and GIS data on the same platform.
- The application shall have a workflow based module for scrutinizing the lease hold / mineral bearing data as per guidelines of IBM circular no specified in this RFP.
- It shall be have User Management component for defining user roles to control the access of tools and database as per CGM's requirement.
- It shall have a provision to perform Quality Control activity on the data collected from the field before storing on the parent database server.
- It shall have provision to generate custom reports. The total of number reports and types shall be finalized during System Requirement study phase.
- It shall have Dashboard with custom charts for CGM Senior Officials for monitoring and analysis of the data.
- It shall have a provision to store audit trail of user activities performed on the application.
- It shall be integrated with existing ILMS database which is running presently successfully and having revenue received, dispatch and other relevant details.
- It shall have a provision to manage hearing process of applicants and recording/storing the minutes of minutes / other relevant documents and any other supporting documents against each application processing for the same.
- The Successful Bidder(s) shall ensure that few functionalities of this application shall also be available in the mobile app for CGM official to perform field verification of the surveyed data or during the inspection of mines. Detailed requirement shall be finalized during System Requirement study phase by the successful bidder only.
- The Successful Bidder(s) shall develop a citizen centric mobile app to view his/her information. Detailed requirement shall be finalized during System Requirement study phase by the successful bidder only.
- The Successful Bidder(s) should adhere to the Advisory that has been provided by Department of Science & Technology, Government of Gujarat (GoG), regarding compliance audits, adoption of Technical Standards for Interoperability Framework and other standards published by GoG / GoI for various eGovernance Projects.
- It shall have Bi-lingual (i.e. English & Gujarati) interface.
  - ✓ Web GIS Requirements
- The Web GIS application shall be accessed by official of CGM / registered stakeholders through ILMS application. Approx. 200 Intranet & Internet users of which 50 will be concurrent users).
- Layer and data security – it shall have a provision to configure user level access to data and layers.
- Shall be compatible for accessibility from any device (i.e. Mobile, Tablet and Laptop), Standard Operating Systems and Internet Browsers.
- Should support One-Web functionality
- Shall have provision to integrate with existing ILMS Application running for all lease holder / mineral stockist / weigh bridge user / other registered users
  - Shall support security system with a full-fledged Role Based Access Control (RBAC) model

#### **4.2.13. Testing, Training and Go-Live of the System**

##### **4.2.13.1. User Acceptance Testing (UAT)**

The primary goal of Acceptance Testing is to ensure that the proposed GIS System meets requirements, standards, and specifications as set out in this RFP and as needed to achieve

the desired outcomes. The Bidder/SI will prepare the UAT criteria document and sample data for UAT, and take approval from CGM, well in advance before start of the UAT process.

For UAT the test cases should be discussed and the test data will have to be formally requested from each of the departmental users to ensure that each of the module user get real time feel of the application. This approach would also help in availing faster acceptance from respective user departments of CGM and their key stakeholders.

CGM reserves its right to undertake this exercise of Testing, Acceptance and Certification through a third party.

The basic approach for UAT should ensure that the following are associated with clear and quantifiable metrics for accountability:

- Functional requirements
- Performance
- Security
- Manageability
- SLA Reporting System
- Project Documentation
- Data Quality Review

#### **4.2.13.2. Training**

- Prepare and organize training programs to facilitate the departmental users in the efficient usage of the whole system.
- The Bidder/SI shall provide training to departmental users to efficiently use the system. The staff thus trained would subsequently train the other staff as and when required.
- The Bidder/SI shall provide training as per the proposed training plan schedule to be shared as part of Approach and Methodology section in technical bid.
- Bidder has to conduct a proper Training Needs Analysis of all the concerned staff and draw up a systematic training plan in line with the overall project plan. For all these training programs the bidder has to provide necessary course material and reference manuals (user/maintenance/ administration)
- Based on the roles and responsibilities of the CGM officials at various levels, the training plan should be proposed; it should address level wise functional and general training requirements in accordance with the existing skillset and capacity of the CGM officials.
- The Bidder/SI shall provide training to the selected officials of CGM as decided by the authorized official. The training batch size should not be more than 25 officials.
- Bidder has to train key department users for hands on training regarding the GIS application usage.
- A detailed training schedule, including the dates, areas to be covered, time and the training literature (to be supplied to CGM) at various stages of the training cycle and feedback for effectiveness will be agreed to by both parties (CGM and the Bidder/SI) during the performance of the Contract.
- Training shall also be provided for teaching the basic trouble shooting activities in case of problems.
- For imparting training; SI will have to provide training material, trainer, along with training infrastructure such as Training Rooms, Sitting arrangement, overhead projector, computing infrastructure for the trainees, etc.
- Trainings shall be provided as per the training schedule provided by SI/Bidder.

- Training shall be imparted in Gujarati and English language as per the requirement of the trainees. The printed manuals and training manuals should also be available in Gujarati and English Language.
- The trainers imparting the training should be well versed in Gujarati and English language.
- Training is an important aspect of every project, and CGM expects the successful bidder to undertake it in a very professional manner. All the module users will have to be trained with respect to the functionality of the corresponding modules.
- Trainings have to be imparted at a location mutually agreed by bidder and CGM and within the limits of CGM.
- Training to be imparted to users:

**Functional Training:** This training would focus on the usage of application software so that the users are aware of all the operations of the application systems, ensuring a smooth run of Departmental Operations. It would be covered for each of the functional module.

**Administrative Training:** This training would focus on the administration of Application Software and Server Infrastructure and would be imparted to the relevant department of CGM.

#### **4.2.13.3. System Documents, User Documents**

The Successful Bidder will provide documentation, which should follow the ITIL (Information Technology Infrastructure Library) standards. This documentation should be submitted as the project undergoes various stages of implementation. Indicative list of documents include:

- Project Commencement Documentation: Project Plan in giving out micro level activities with milestones & deadlines.
- Training Material: Training Material will include the presentations used for trainings and also the required relevant documents for the topics being covered.
- User Manuals: For all the Application Software Modules, required for operationalization of the system.
- System Manual: For all the Application Software Modules, covering detail information required for its administration.
- Installation Manual
- Test Plans and Test cases (including Unit Test Plan, System/Integration Test Plan, User Acceptance Test Plan, Security Test Plan, Load Test Plan, Regression Test Plan)
- Software Testing Documentation (including details of defects/bugs/errors and their resolution)
- Source Code versioning document
- Inspection and testing procedures manual including QA Policy as per STQC framework and Procedures for the software/hardware equipment
- Any other document(s) deemed necessary for implementation, operation and maintenance of the overall system.
- Software Design Document
  - High Level Software Design document including Software Architecture design, Logical and Physical Database Design etc.
  - Low Level Software Design document including Programming Logic, Workflows etc.
  - Complete Source Code with documentation

- The bidder shall prepare a process document in accordance with the ISO 9001 standard; containing all the process being carried out during the entire tenure of the project and share the same with CGM.
- Periodic reviews (at least once every quarter) shall be carried out for measurement of effectiveness for each of the process implemented and the same shall be shared by the System Integrator with CGM
- Escalation Mechanism
- Exit Management Plan

**Note:** The successful bidder will ensure Upkeep & Updating of all documentation and manuals.

#### **4.2.13.4. Application Software Certification**

Upon successful UAT and prior to the Go Live, the bidder shall undertake testing and certification of the Software by the Standardization Testing and Quality Certification (STQC) Directorate or any other CERT-In empanelled IT Security Auditing Company from functional and security perspective.

#### **4.2.13.5. Test & Live Implementation**

Upon completion of above activities, Successful Bidder will have to submit detailed plan for live implementation of the system. Successful Bidder has to ensure that the Application Software is completely operational as per the requirements in this RFP and all the acceptance tests are successfully concluded as per the satisfaction of CGM or CGM Consultant. CGM reserves the right to undertake Test Implementation of the system before making it Live

#### **4.2.14. Standards to be adhered**

The following technology and standard should be used while developing and implementing the overall solution for CGM

<b>Application</b>	<b>Standard</b>
Workflow Design	WFMC/BPEL or Equivalent Standard
Web Portal	W3C / WCAG Standard
Information access / Transfer Protocols	SOAP, HTTP/HTTPS, UDDI, WSDL
Interoperability	Web Services, Open Standard
Photograph	JPEG, JPG, TIFF, PDF, etc (minimum resolution 640 x 480 Pixels)
Scanned Documents	TIFF (Resolution of 600 x 600 dpi) / PDF, etc
Information Security	ISO 27001 Certified System
Operational Integrity & Security Management	ISO 17799 Certified System
Operation	ISO 9001 Certified
IT Infrastructure Management	ITIL / EITM specification
Service Management	ISO 20000 specification or latest
Project Documentation	IEEE/ISO specifications for documentation

Data Standards	All important data entities would be in line with standards published by DIT ( <a href="http://egovstandards.gov.in">http://egovstandards.gov.in</a> )
Localization Standards	All applications would comply with standards published on <a href="http://egovstandards.gov.in">http://egovstandards.gov.in</a>
Government standards	GIGW compliant solution

#### 4.2.15. Data and Facilitation scope of Bidder

At present, CGM has approximately 7500+ active leases across the state of Gujarat.

Sr.	District Name	Present Lease
1	Ahmedabad	57
2	Amreli	182
3	Kachchh	898
4	Kheda	199
5	Anand	40
6	Gandhinagar	82
7	Jamnagar	352
8	Junagadh	290
9	Porbandar	509
10	Panchmahal	248
11	Dahod	82
12	Banaskantha	461
13	Bharuch	201
14	Narmada	32
15	Bhavnagar	198
16	Mahesana	141
17	Patan	62
18	Rajkot	276
19	Vadodara	213
20	Valsad	66
21	Navsari	340
22	Sabarkantha	304
23	Surat	254
24	Tapi	154
25	Surendranagar	411
26	Mahisagar	111
27	Devbhumi Dwarka	247
28	Gir-Somnath	293
29	Botad	94
30	Morbi	286
31	Chhota-Udepur	391
32	Arravalli	245
Total Leases		7719

The areas of leases are measured in Hectors and mineral wise summed up as per below:

<b>Sr.</b>	<b>Mineral Lease in Gujarat</b>	<b>Total Area in Ha. (approx)</b>	<b>Total Leases</b>
1	Agate	186.15.68	2
2	Ball Clay	210.87.06	6
3	Bauxite	7796.75.96	210
4	Bentonite	563.76.58	281
5	Black Trap	6440.41.13	3329
6	Brick earth	1.25.00	1
7	Building Limestone	487.64.70	330
8	Calcite	10.33.47	4
9	Carbonaceous Shale	25.16.59	11
10	Chalk	611.39.55	147
11	China Clay	636.63.21	90
12	Dolerite	01.77.00	1
13	Dolomite	1202.36.84	94
14	Felspar	1.00.00	1
15	Fire clay	199.33.93	49
16	Flourspar	63.20.00	2
17	Gabbro	7.00.00	1
18	Gravel	428.50.86	126
19	Gypsum	84.94.64	6
20	Hard Murrum	50.83.40	20
21	Laterite	637.10.04	10
22	Limestone	891.87.80	1031
23	Limestone Major	13446.10.57	348
24	Manganese Ore	454.84.88	2
25	Marble	144.51.04	33
26	Marl	2197.68.32	16
27	Molding Sand	2.80.00	1
28	Murrum	71.50.87	35
29	Natural Clay	250.75.46	8
30	Ochre	22.00.00	3
31	Ordinary Clay	633.40.91	181
32	Ordinary Sand	8985.38.66	3472
33	Pozzolanic clay	49.18.00	1
34	Quartz	352.45.41	86
35	Quartzite	186.49.89	128
36	Red Clay	94.02.48	31
37	Sandstone	192.18.93	134
38	Silica Sand	1278.07.87	68
39	Soap Stone	6.23.76	3
40	White Clay	753.62.91	97
41	Granite	137.29.12	65
42	Lignite	12348.18.83	13
<b>Total Lease in Gujarat</b>			<b>10477</b>

#### **4.2.16. Post implementation services**

As a part of Post-Implementation services, the successful bidder shall undertake the following services for the period of 8 Years from the date of Implementation Completion Certificate issued by CGM. Successful Bidder would be completely responsible for the defect free functioning of the application software and would undertake following as part of Post implementation services:

- Resolve any issues including bug fixing, improvements in presentation and/or functionality and others within a duration mentioned in Service Level Agreement.
- Provide the latest updates, patches / fixes, version upgrades relevant for the software components.
- Software version management and software documentation management reflecting features and functionality of the solution.
- Provide the latest updates, patches / fixes, version upgrades, etc.
- Bidder has to ensure that annual technical support is available for software application, operating systems, and database for the entire O&M phase.
- Software version management and software documentation management reflecting features and functionality of the solution.
- Database / Application Software tuning to enhance the performance of the overall system
- Undertake regular, proactive Database Management activities.

##### **4.2.16.1. Data Management**

Successful Bidder would be responsible for extending all possible support to different departmental or contract staff for Data Management (like Data entry Screens, Report Generation, Data Analysis, Data Cleansing, etc). Data could be in English as well as in Gujarati. Data should be Unicode compliant. For the data entered during the Base Map Creation/Updation, Bidder will be responsible for data management of the collected data and its digitization. Also CGM intends to carry out GIS based field surveys for collection of spatial and non-spatial attributes from the field as well regular procurement of satellite imageries. During the post implementation phase the successful bidder will have to map the selected areas from new satellite imageries based on the requirement of CGM and help departments to identify changes on the selected areas. The successful bidder will also have to train and support the department officials in using the enterprise GIS setup by importing the surveyed GIS data for each department into the enterprise GIS database and maintaining it for department specific edits and application development.

##### **4.2.16.2. Roles and Responsibility of the System Integrator (Successful Bidder)**

- Approval & Sign Off from each department.
- Provide support and Maintenance with its own man-power for the period of **8 years** from the Go-Live stage.
- Preparation of necessary user manuals for all the modules and review of the same
- Carry out Training programs / workshops for the department personnel
- Should ensure the compliance with all the required standards mentioned in this document and to obtain the quality and security certification from **STQC** or any other **CERT-IN** certified agency at their own expense.

- Bidder/SI should prepare and provide to CGM documents including User Manuals, Configuration Manuals, Operational Manual, Maintenance Manuals, etc. as per acceptable standards.
- During the Project Term, Bidder/SI would be completely responsible for defect free functionality of the application software and would resolve any solution related issues including bug fixing etc. within Project Term agreed between CGM and the Bidder/SI.
- Bidder/SI should provide the latest updates, patches/ fixes, version upgrades relevant for the GIS solution components.



#### 4.2.17. Minimum Qualifications & Experience for key Resources

The following are minimum qualifications and experience for key onsite dedicated resources required to implement the Enterprise GIS. The following personnel would be required during the Design, Configuration, Installation and Setup.

##### Implementation team

Sr.	Role	Min. Qualification & Experience
1.	Project Manager	<ul style="list-style-type: none"> <li>• B.E. / B.Tech Computer Science / IT. + M.B.A.</li> <li>• Min 8+ Years of total Experience; Min 2+ years of relevant Experience as Project Manager in GIS Projects</li> </ul>
2.	Business Analyst	<ul style="list-style-type: none"> <li>• B.E. / B.Tech. Computers Science / M.C.A.</li> <li>• 4+ Years of Experience as a Business Analyst / System Analyst</li> </ul>
3.	Web based Programmers	<ul style="list-style-type: none"> <li>• B.E. / B.Tech. Computers Science / M.C.A.</li> <li>• 2+ Years of Experience as a programming for GIS based web Applications</li> </ul>
4.	Geologist / Mining Engineer / Environmental Engineer	<ul style="list-style-type: none"> <li>• Masters or Bachelors in Geography / Geological Sciences/ Environmental Sciences/ Mining and Metallurgy from a reputed institute</li> <li>• 4+ Years of Experience Geology and GIS based Projects</li> </ul>
5.	Testers	<ul style="list-style-type: none"> <li>• B.E. / B.Tech. Computers Science / M.C.A.</li> <li>• 2+ Years of Experience as a tester for GIS based Applications</li> </ul>
6.	Surveyor	<ul style="list-style-type: none"> <li>• Minimum Bachelor's degree from a reputed institute.</li> <li>• 3+ years of experience in GIS based survey with knowledge of DGPS surveys, data extraction and mapping.</li> </ul>
7.	System Administrator	<ul style="list-style-type: none"> <li>• Graduate with Industry certification in system administration</li> <li>• 5+ Years of Experience System Administrator for software solutions.</li> </ul>
8.	GIS based Digitizing Operator	<ul style="list-style-type: none"> <li>• Graduate / Diploma with 3+ years of experience for Digitizing and Base Map Creation/Updation</li> </ul>
9.	Database Administrator	<ul style="list-style-type: none"> <li>• Graduate with Industry certification in Database administration</li> <li>• 5+ Years of Experience Database administrator for GIS based projects</li> </ul>

##### Post Implementation Team (full time Onsite-dedicated resource)

Sr.	Role	Min. Qualification & Experience
1.	Project Manager	<ul style="list-style-type: none"> <li>• B.E. / B.Tech Computer Science / IT. + M.B.A.</li> <li>• 8+ Years of total Experience; Min. 2+ years of relevant Experience as Project Manager in GIS Projects</li> </ul>
2.	Business Analyst	<ul style="list-style-type: none"> <li>• B.E. / B.Tech. Computers Science / M.C.A.</li> <li>• 4+ Years of Experience as a Business Analyst / System Analyst</li> </ul>

Sr.	Role	Min. Qualification & Experience
3.	Web based Programmers	<ul style="list-style-type: none"> <li>• B.E. / B.Tech. Computers Science / M.C.A.</li> <li>• 2+ Years of Experience as a programming for GIS based web Applications</li> </ul>
4.	Geologist / Mining Engineer / Environmental Engineer	<ul style="list-style-type: none"> <li>• Masters or Bachelors in Geography / Geological Sciences/ Environmental Sciences/ Mining and Metallurgy from a reputed institute</li> <li>• 4+ Years of Experience Geology and GIS based Projects</li> </ul>
5.	Testers	<ul style="list-style-type: none"> <li>• B.E. / B.Tech. Computers Science / M.C.A.</li> <li>• 2+ Years of Experience as a tester for GIS based Applications</li> </ul>
6.	GIS based Digitizing Operator	<ul style="list-style-type: none"> <li>• Graduate / Diploma with 3+ years of experience for Digitizing and Base Map Creation/Updation</li> </ul>
7.	Database Administrator	<ul style="list-style-type: none"> <li>• Graduate with Industry certification in Database administration</li> <li>• 5+ Years of Experience Database administrator for GIS based projects</li> </ul>

## 5. SECTION V – WORK COMPLETION & PAYMENT TERMS

The timelines for completion of the project is as mentioned below along with payment terms

Sr.	Milestone	Deliverables	Timelines	Payment Terms *
1.	WO / LOA / PO	Acceptance on the Work Order / LOA / Purchase Order	Date of issuance of Work Order / LOA / Purchase Order (T)*	NIL
2.	Project Kick-Off	Project Inception Report covering detailed project approach and plan with initial assessment data and requirements from CGM (if any)	T + 2 Weeks	NIL
3.	Delivery & Installation of GIS platform licenses (only for desktop based editing and data creation)	Licenses delivery challan as well as installation notes along with other delivery data like media / CD / DVD.	T + 6 Weeks	10% of the capital cost as per section 11.3 of this document.
4.	Mapping of Exploration Maps, Leases both Major and Minor, Stockiest Maps, Cadastral maps, Satellite base map for 3 initial Districts	Georeferenced lease, stockiest, cadastral along maps superimposed with base map in enterprise GIS database with all required layers for 3 initial districts (decided by CGM)	T+ 24 weeks	10% of the capital cost as per section 11.3 of this document.
5.	System Requirement Specification for customized GIS application for CGM	Submission and acceptance of a detailed System Requirement Specification document	T+ 12 Weeks	10% of the capital cost as per section 11.3 of this document.
6.	System Configuration, Development & Integrations of customized GIS application with UAT with Pilot data of 3 Districts	Conference room pilot demo of the entire application. Sign off on the UAT of the developed solution by department designated committee.	T +32 Weeks	10% of the capital cost as per section 11.3 of this document.
7.	Complete Mapping of Exploration Maps, Leases both Major and Minor, Stockiest Maps, Cadastral maps, Satellite base map as per scope and finalized volume by CGM.	Georeferenced lease, stockiest, cadastral along maps superimposed with base map in enterprise GIS database with all required layers entire region within the scope of work	T+42 Weeks	20% of the capital cost as per section 11.3 of this document.
8.	Delivery & Installation of GIS platform	Licenses delivery challan as well as installation notes along with	T+43 Weeks	10% of the capital cost

Sr.	Milestone	Deliverables	Timelines	Payment Terms *
	licenses (for server based / web based GIS)	other delivery data like media / CD / DVD.		as per section 11.3 of this document.
9.	Final UAT with complete geospatial and non-spatial data for the entire region as per the scope of work	Conference room pilot demo of the entire application. Sign off on the UAT of the developed solution by department designated committee.	T + 50 Weeks	10% of the Capital cost as per the section 11.3 Point 1 of this document.
10.	End User Training	Session wise hand on training for the department users. Training Report to be delivered	T + 52 Weeks	NIL
11.	System Go – Live	Final delivery of GIS solution with all login details, user manuals, and working GIS application and enterprise GIS setup.	T + 54 Weeks	20% of the Capital cost as per the section 11.3 Point 1 of this document.
12.	Maintenance & Support of the GIS Solution & other infrastructure	Regular maintenance, upgrades & changes requested as per the requirements of CGM.	Quarterly payments for 8 years (To be calculated from CGM acceptance Support & Maintenance of proposed GIS Solution)	Equal % of Operational cost as per section 11.3 of this document for 20 quarters post go live date.

1. The CGM shall certify actual implementation. The SI has to ensure proper hand-holding & support of the system.
2. Vendor / Service Provider shall raise the component wise invoice as per the milestones achieved as mentioned above in the payment schedule & submit the invoice to CGM.
3. CGM shall verify the Invoices raised against the milestone achieved & shall release the payment.
4. CGM reserves the right to legally keep the payment on hold (indefinitely till quality restores) subject to dissatisfaction of the quality been delivered against the agreed upon deliverables of each milestone.
5. The SI's request(s) for payment shall be made to CGM along with the 2 original copies of invoice and necessary supporting documents / reports. The invoice should be in English.
6. Payment shall be made in Indian Rupees. The Payment will be subject to deductions like TDS etc. as applicable.

## 6. SECTION VI: SERVICE LEVEL AGREEMENT & PENALTY CLAUSE

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service to be provided by the successful bidder to CGM for the duration of this contract.

### 6.1. Definitions

- **“Scheduled Maintenance Time”** shall mean the time that the System is not in service due to a scheduled activity as defined in this SLA. The scheduled maintenance time would not be during “Business hours”. Further, scheduled maintenance time is planned downtime with the prior permission of CGM.
- **“Scheduled Operation Time”** means the scheduled operating hours of the System for the month. All scheduled maintenance time on the system would be deducted from the total operation time for the month to give the scheduled operation time. The total operation time for the systems and applications will be 24X7X365.
- **“System or Application Downtime”** means accumulated time during which the System is totally inoperable within the Scheduled Operation Time but outside the scheduled maintenance time and measured from the time CGM employees log a call with the SI team of the failure or the failure is known to the SI from the availability measurement tools to the time when the System is returned to proper operation.
- **“Availability”** means the time for which the services and facilities are available for conducting operations on the CGM system including application and associated infrastructure. Availability is defined as:

$$\frac{\{(Scheduled\ Operation\ Time - System\ Downtime)\}}{(Scheduled\ Operation\ Time)} * 100\%$$

- **“Incident”** refers to any event / abnormalities in the functioning of the Application Services that may lead to disruption in normal operations of the System or Application services.

### 6.2. Interpretations

- The business hours are 9:00 AM to 9:00 PM on all working days (Mon-Sat) excluding Public Holidays or any other Holidays observed by CGM. The SI however recognizes the fact that the CGM offices will require to work beyond the business hours on need basis.
- "Non-Business Hours" shall mean hours excluding “Business Hours”.
- 16X7 shall mean hours between 08:00AM – 12:00 AM on all days of the week.
- The SLA parameters shall be monitored on a monthly basis as per the individual SLA parameter requirements. However, if the performance of the system/services is degraded significantly at any given point in time during the contract and if the immediate measures are not implemented and issues are not rectified to the complete satisfaction of CGM or an

agency designated by them, then the CGM will have the right to take appropriate disciplinary actions including termination of the contract

- A Service Level violation will occur if the SI fails to meet Minimum Service Levels, to be measured on a monthly basis, for a particular Service Level. Overall Availability and Performance Measurements will be on a monthly basis for the purpose of Service Level reporting. An “Availability and Performance Report” shall be provided by the SI / Selected Bidder on monthly basis in the format finalized in consultation with CGM or any other nominated agency by CGM.
- The monthly Availability and Performance Report will be deemed to be accepted by the CGM upon review and signoff by the Nominated official from CGM, some of the Service Levels will be assessed through audits or reports; as appropriate to be provided by the SI on a monthly basis, in the formats accepted by CGM. The tools to perform the audit will have to be provided by the SI. Audits will normally be done on regular basis or as required by the CGM.
- The Post Implementation SLAs will start of the Operations and Maintenance Phase. However, SLAs will be subject to being redefined, to the extent necessitated by field experience at the CGM offices and the developments of technology practices globally. The SLAs may be reviewed on an annual/bi-annual basis as the CGM decides after taking the advice of the SI and other agencies. All the changes would be made by the CGM in consultation with the SI.
- The SI is expected to provide the following service levels. In case these service levels cannot be achieved as per the required standards, it shall result in a breach of contract and invoke the penalty clause. Payments to the SI are linked to the compliance with the SLA metrics laid down in the sections below. The penalties will be computed and calculated as per the computation explained in the following sections
- Minimum uptime for the entire IT infrastructure along with the software application and solutions is 99.9%. The uptime will be calculated based on the reports generated from SLA monitoring tools that will be provided by the selected bidder on quarterly basis. And any deduction in terms of penalties will be deducted from the quarterly invoice submitted by the bidder.

### **6.3. Penalty for delay in project execution**

- For any delay in the timelines mentioned in the RFP, CGM will charge penalty @ 0.5% of the corresponding milestone value for first two weeks and 1.0% for all the subsequent weeks or part thereof, subject to a maximum penalty cap of 10% of the respective component cost

### **6.4. Penalty calculation**

- The Penalty shall be calculated as and when the invoice is raised for a milestone by the SI / selected bidder.
- All penalties defined for O&M phase will be exclusive to each other and total penalty for any of the quarter will not exceed more than 10% of quarterly payment. For

Implementation phase penalties, the total penalties should not exceed 10% of the total Capex cost payable to SI.

- Three consecutive quarterly deductions totaling to more than 25 % of the applicable payment for the corresponding quarter will be deemed to be a sufficient condition for termination.
- In the event of any of the above (two points) happening, CGM may at its discretion will have right to terminate the contract as per the terms and Conditions of this RFP and Draft contract Agreement.
- Planned Down-time (during non-working hours) is not considered for penalty calculation. Bidder/ SI will have to take at least 3 days prior permission from CGM for the planned down-time. Planned Down-time won't be allowed for more than two times in a month.

### 6.5.SLA for Survey and Map Creation

Sr.	Parameter	Condition	Penalty
1.	<b>DGPS ground control point accuracy</b>	Should be <0.3m.	INR 5000/-for every inaccurate point and a resurvey. The penalty will be charged to a maximum of 10% of the DGPS survey milestone.
2.	<b>Map Digitization</b>	100 % features to be digitized as per the approved data model.	INR 5000/- for every missed feature in the output map. The penalty will be charged to a maximum of 10% of the map creation milestone.

### 6.6.SLA for Software Support

- Any patch released by the OEM needs to be applied to the corresponding product within 7 working days. Any delay in applying the patch will attract penalty of Rs. 2000/- per day.
- Any Software bug identified by CGM / Bidder/ SI's service engineer, will be classified in types :
  - Critical:** Having bearing on the day-to-day functioning of the respective system / availability of application (full functionality or part functionality) for the CGM users
  - Non-critical:** Not-having bearing on the day-to-day functioning of the respective system
- In case of dispute between CGM and the successful Bidder with respect to classification of bugs as Critical or Non-Critical, decision of the Commissioner, CGM, shall be final and binding on the Successful Bidder.
- Resolution time & the penalty component for the bug fixing is given below (applicable on 24 \* 7 basis):

Type of Bug	bug / problem resolution time	Penalty Amount
Critical	2 hours	Rs. 2000/- (per hour)

	1 hour if the bug / problem has re-occurred within 7 days of the earlier resolution	Rs. 2000/- per hour beyond 8 hours
		Rs. 4000/- per hour beyond 24 hours
Non-critical	3 working days	Rs. 500/- (per day)
	1 working day if the bug / problem has re-occurred within 15 days of the earlier resolution	Rs. 2000/- per day beyond 7 days
		Rs. 2000/- per day beyond 10 days

### 6.7. Response Time Performance Criteria

Response time: Response time is the time interval between the instant at which the LAN user at a terminal enters a request for a response from the Database server and the instant at which the response is received completely at the terminal.

User Activity	LAN Users (App Server to DB)	
	90% of cases	All
Menu Navigation – To display the menu as per the defined user role and profile	< 4 sec	< 6 sec
Screen Opening – To display the selected data entry screen from the menu chosen	< 4 sec	< 6 sec
Field Navigation – To navigate between the data entry fields in the Screen	< 7 sec	< 10 sec
Look up response time – To display items from List of Values	< 10 sec	< 12 sec
Look up response time – To display the required GIS & map data	< 10 sec	< 15 sec
Screen Navigation – Time taken to navigate from one screen (tab page) to another which does not involve processing in earlier screen	< 5 sec	< 7 sec
Map Navigation- Time taken in map rendering with all visible layers (with scale dependency) on using navigation tools.	< 6 sec	< 10 sec
Transaction Commit – Response time taken to commit a simple transaction	< 10 sec	< 15 sec
Query Retrieval Response Time		



User Activity	LAN Users (App Server to DB)	
	90% of cases	All
Simple query	< 8 sec	< 15 sec
Medium complexity query	< 15 sec <	< 20 sec
High Complexity query	<20 sec	< 30 sec
Reports Generation Response Time		
Simple Report	< 10 sec	< 20 sec
Medium Complexity report	< 45 sec	< 90 sec
High Complexity report	< 90 sec	< 3 min

Non-adherence to the above-mentioned response time would be considered as a bug and the penalty would be levied as per the table in section 6.7 for the non-resolution. Support service shall be available 24 \* 7

The successful bidder will have to maintain strict Privacy and confidentiality of all the data it/its staff gets access to. Adequate provisions to be made to not to allow unrestricted access to the data to people in the organization who have not got the necessary permissions. Successful Bidder cannot sell or part with any data in any form. Penalty of Rs. 1,000/- to Rs. 100,000/- would be charged on default of this service condition. The exact amount of the penalty will be decided by CGM based upon severity of the default.

The overall penalty cap will be 10% of the overall contract value.

## **7. SECTION VII: ROLES & RESPONSIBILITIES OF STAKEHOLDERS**

It is suggested that this project would require a 2 tier structure to be followed with CGM at the top tier being assisted by various committees. The SI would be the 2nd tier providing a complete support system for successful execution of this project. However the final decision in this regard rests with the CGM on level of engagements for SI.

### **7.1. Office of the commissioner of Geology & Mining (CGM)**

- Receive and appraise proposals / suggestions from the SI for project implementation
- To form Project Management Group (PMG) for monitoring the implementation program across the State.
- Ensure that the SI conducts a detailed BPR exercise while developing and implementing the automated system.
- Assist in Organizational capacity building.
- Monitoring implementation, consolidation and approvals of AS-IS, BPR, Products, Case studies etc.
- Identify the pilot departments/districts/offices and approve the project report for taking up the Phase I for project implementation.
- Define the services/modules for Pilot project implementation as prescribed in the selection criteria
- To enter into necessary agreements with SI for defining service levels for identified services, ensuring service level adherence, implementation and sustainability of the pilot project and subsequent state wide rollout.
- Work as driver for policy, regulatory and other relevant changes.
- Providing Financial Support as per the project requirements.
- Assist in providing Infrastructure and other support to the SI
- To organize for data entry of service records of all the employees

### **7.2. SI/Bidder:**

- Provide close tie-ups with all the stakeholders in the Project at all levels, including field level.
- Provide commitment and support to bring-in the process changes.
- Work closely with the different department officials, field agents, support agencies etc. to undertake the field work, comprehend the requirements, document the observations and redesign the processes by doing BPR of government administrative processes.
- Help build capacity for the staff and executive resources at all levels, by providing necessary training and undertaking awareness campaigns. CGM and GIL would also work closely with the Total Solution Provider for developing and customizing the software and implementing the technical solutions.
- To provide services, IT resources, and capacity building for creation of ecosystem for high adaptability of backend computerization and e-Governance initiatives as per departments vision.
- Coordinate and facilitate interactions between the various stakeholders like CGM, Administration officials, other instrument bidders and GIL, through its project coordinators and mobile teams.

- Preparation of Project Framework, including aspects like scalability, security, manageability and integration features.
- Submit suggestions on Business Process Reengineering (BPR).
- Carrying out the field study in order to understand the requirements of the citizens, existing delivery mechanism, levels of interfaces with the Governments, the impediments and difficulties in accessing the services and information.
- Designing an efficient and effective end to end service delivery process.
- Understanding the capacity building requirements and help create a facility for development of capacity.

For additional Details on the Roles and Responsibility of the SI please refer to Scope of work section 4.

## **8. SECTION VIII: GENERAL TERMS & CONDITIONS**

### **8.1. Application**

These general conditions shall apply to the extent that provisions in other parts of the Contract do not supersede them. For interpretation of any clause in the RFP or Contract Agreement, the interpretation of the CGM shall be final and binding on the SI.

### **8.2. Relationship between parties**

Nothing mentioned herein shall be constructed as relationship of master and servant or of principal and agent as between the 'CGM' and 'the SI. The SI subject to this contract for selection has complete charge of personnel, if any, performing the services under the Project executed by CGM from time to time. The SI shall be fully responsible for the services performed by them or on their behalf hereunder. CGM will allocate work/assignment to the SI.

### **8.3. Standards of Performance**

The SI shall give the services and carry out their obligations under the Contract with due diligence, efficiency and economy in accordance with generally accepted professional standards and practices. The SI shall always act in respect of any matter relating to this contract as faithful advisor to CGM. The SI shall abide by all the provisions/Acts/Rules etc. of Information Technology prevalent in the country as on the date of the requirements and design submissions. The SI shall conform to the standards laid down in RFP in totality.

### **8.4. Delivery and Documents**

As per the time schedule agreed between parties for specific projects given to the SI from time to time, the SI shall submit all the deliverables on due date as per the delivery schedule. No party shall, without the other party's prior written consent, disclose contract, drawings, specifications, plan, pattern, samples or other documents to any person other than an entity employed by the affected party for the performance of the contract. In case of the termination of the contract, all the documents prepared by the SI under this contract shall become the exclusive property of CGM. The SI may retain a copy of such documents, but shall not use anywhere, without taking permission, in writing, from CGM. CGM reserves right to grant or deny any such request.

### **8.5. SI Personnel**

The SI shall employ and provide such qualified and experienced personnel as may be required to perform the services under the specified project as assigned by CGM. This is a specialized domain of 'e Governance' and it is desirable from the SI to deploy the personnel, who have adequate knowledge and experience in the domain related with this project. It is mandatory that the SI shall hire the services of domain Specialists, to work on the Project effectively.

## **8.6. Applicable Law**

Applicable Law means the laws and any other instruments having the force of law in India as they may be issued and in force from time to time. The contracts shall be interpreted in accordance with the laws of the Union of India and that of the State of Gujarat

## **8.7. Use of Contract Documents and Information**

1. The SI shall not, without CGM's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the in connection therewith, to any person other than a person employed by the SI in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend to only as far as may be necessary for purposes of such performance.
2. The SI shall not, without CGM's prior written consent, make use of any document or information except for purposes of performing the Contract.
3. Any document, other than the Contract itself, shall remain the property of CGM and shall be returned (in all copies) to CGM on completion of the SI's performance under the Contract if so required by the CGM.

## **8.8. Governing Language**

The Contract shall be written in English Language. English version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the contract, which are exchanged between the parties, shall be written in the English Language. All submissions/documentations/manuals/codes shall be in English only except the user manual.

## **8.9. Intellectual Property Rights**

1. Deliverables created by Bidder specifically for CGM, Govt. of Gujarat and identified as such in the relevant Scope of Work, the IPR of the same shall be the Exclusive property of CGM, the ownership of the Application solution and the source code will solely lie with CGM, Government of Gujarat.
2. While passing on the rights (license) of using any software/software tool, the Bidder shall ensure that such rights are inclusive of the use of that software for development in addition to deployment.
3. The software licenses supplied by Bidder shall be genuine, perpetual, full use and should provide patches, fixes, security updates directly from the OEM at no additional cost to CGM for the entire period of contract, in case of product. All the licenses and support should be in the name of CGM from the date of procurement.
4. In the event of any claim asserted by a third party of infringement of copyright, patent, trademark or industrial design rights arising from the use of the Goods or any part thereof Request for Proposal (RFP), the Bidder shall act expeditiously to extinguish such claim. If the Bidder fails to comply and CGM is required to pay compensation to a third party resulting from such infringement, the Bidder shall be responsible for the compensation including all expenses, court costs and lawyer fees. CGM will give notice to the Bidder of such claim, if it is made, without delay where upon Bidder shall reimburse

### 8.10. Exit Management Plan

- After completion of 5<sup>th</sup> year of Maintenance, CGM shall identify and propose its Information Technology operations team to take over the Application maintenance activities from the Service Provider (SP).
- The SP shall create a detailed plan for Capacity Building required at CGM to manage the application and a Transition Plan (implemented over a minimum period of 1 year) to affect the handover to CGM; and implement the same in collaboration with the CGM before the completion of their engagement.
- The SP shall handover all the documents, source codes to CGM IT Team during the end of the 3<sup>rd</sup> year of operations. This will include training and transfer of Intellectual Property, Knowledge Transfer related to maintenance as per CGM's requirement
- In case if CGM fails to identify and provide adequate IT Team members for taking the handover of Application Maintenance, then based on mutual agreement, the Application Maintenance contract may further be extended.

### 8.11. Inspection/Testing

#### *Application*

- a) CGM or its representative shall have the right to inspect and/or to test the software or work of the SI to confirm their conformity to the Contract specifications at no extra cost to the CGM.
- b) As per Govt. Of Gujarat circular dated 10<sup>th</sup> March 2006, the CGM applications must be tested at EQDC, GIDC, Gandhinagar or at the location specified by CGM at the cost of SI. The SI must factor in testing cost of such testing in their financial quote. The different types of tests that has to be performed through EQDC are as mentioned below:

Functional Testing
Stress/Load testing
Performance testing

#### *Application Security Audit*

In addition to inspection & testing, the SI shall also be responsible to get application security audited by CERT-In Empaneled application security Auditors at the cost of the SI and submit the Security Audit Clearance Certificate issued by CERT-In Empaneled Security Auditors.

- a) The SI must submit the test results to CGM.
- b) Should any inspected or tested software fail to conform to the specifications, the CGM may reject the software and the SI shall either replace/redevelop the rejected software or make alterations necessary to meet specification requirements free of cost to CGM Without any quality compromise on quality of technical, performance and security aspects.
- c) CGM's right to inspect, test and, where necessary, reject the software / deliverable after the software deployment at Project Site shall in no way be limited or waived by reason

- of the software previously been inspected, tested and passed by CGM for its representative prior to the software deployment.
- d) No clause in the RFP document releases the SI from any warranty or other obligations under this Contract.
  - e) The inspection of the working of the developed software shall be carried out to check whether the software is in conformity with the requirements described in the contract. The tests will be performed after completion of installation and commissioning of all the software at the site of installation. During the test run of software, no malfunction, partial or complete failure of any module of software or bugs in the software is expected to occur. All the software should be complete With requisite integration and no missing modules/sections will be allowed. The SI shall maintain necessary logs in respect of the result of the test to establish to the entire satisfaction of CGM, the successful completion of the test specified. An average uptime efficiency of 99% for the duration of test period shall be considered as satisfactory. On successful completion of acceptability test and after CGM is satisfied with the working of the software on the, the acceptance certificate of CGM will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the software.
  - f) Before the Application modules are taken over by CGM, the SI shall supply operation manuals and SI Testing Report. These shall be in such details as will enable CGM to use the software as stated in the specifications. The documentation shall be in the English/Gujarati language and in such form and numbers as stated in the contract document. Unless and otherwise agreed, the software shall not be considered to be complete for the purpose of taking over until such documentation has supplied to CGM.

### **8.12. Suspension**

CGM may, by written notice to SI, suspend all payments to the SI hereunder if the SI fails to perform any of its obligations under this contract including the carrying out of the services, provided that such notice of suspension.

1. Shall specify the nature of failure.
2. Shall request the SI for remedy of such failure within a period not exceeding thirty (30) days after receipt by the SI of such notice of failure.

### **8.13. Termination**

Under the Contract, CGM may, by written notice terminate the SI in the following ways:

1. Termination by Default for failing to perform obligations under the Contract of if the quality is not up to the specification or in the event of non-adherence to time schedule.
2. Termination for Convenience: CGM by written notice sent to the SI, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for CGM's convenience, the extent to which performance of the SI under the Contract is terminated, and the date upon which such termination becomes effective.
3. The software that is complete and ready for rendering / deployment within 30 days after the SI's receipt of notice of termination shall be accepted by CGM at the Contract terms and prices. For the remaining services, CGM /GIL may elect:
4. To have any portion completed and delivered at the Contract terms and prices; and/or
5. To cancel the remainder and pay to the SI an agreed amount for partially completed software and for software previously procured by the SI.
6. Termination for Insolvency: CGM /GIL may at any time terminate the Contract by giving written notice to the SI, if the SI becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the SI, provided that such termination will not

prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to CGM/GIL.

7. In all the three cases termination shall be executed by giving written notice to the SI. Upon termination of the contract, payment shall be made to the SI for:
  - a. Services satisfactorily performed and reimbursable expenditures prior to the effective date of termination
  - b. Any expenditure actually and reasonably incurred prior to the effective date of termination
8. No consequential damages shall be payable to the SI in the event of such termination.

#### **8.14. Termination for Default**

1. The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Bidder, terminate the Contract in whole or part:
2. if the bidder fails to deliver any or all of the product as per the delivery schedule including installation, Final acceptance test & commissioning mentioned in the bid, or within any extension thereof granted by the Purchaser or
3. if the Bidder fails to perform any other obligation(s) under the Contract/Purchase order.
4. If the Bidder, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

#### **8.15. Fraud & Corruption**

CGM requires that SI selected through this RFP must observe the highest standards of ethics during the performance and execution of such contract. In pursuance of this policy, CGM:

1. Defines, for the purposes of this provision, the terms set forth as follows:
  - a. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of CGM or any personnel of Department in contract executions.
  - b. "Fraudulent practice" means a mis-presentation of facts, in order to influence a procurement process or the execution of a contract, to CGM, and includes collusive practice among bidders (prior to or after Proposal submission) designed to establish Proposal prices at artificially high or non-competitive levels and to deprive CGM of the benefits of free and open competition.
  - c. "Unfair trade practices" means supply of services different from what is ordered on, or change in the Scope of Work which was given by the CGM in Section 3.
  - d. "Coercive Practices" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the execution of contract.
2. Will reject a proposal for award, if it determines that the bidder recommended for award by CGM to having been engaged in corrupt, fraudulent or, unfair trade practices and coercive practices.
3. Will declare a SI ineligible, either indefinitely or for a stated period of time, for awarding the contract, if it at any time determines that the SI has engaged in corrupt, fraudulent and unfair trade practice in competing for, or in executing the contract.

#### **8.16. Force Majeure**

1. Notwithstanding anything contained in the RFP, the SI shall not be liable for liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failures to perform its obligations under the agreement is the result of an event of Force Majeure.



2. For purposes of this clause "Force Majeure" means an event beyond the control of the SI and not involving the SI's fault or negligence and which was not foreseeable. Such events may include wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargos. The decision of the CGM regarding Force Majeure shall be final and binding on the SI.
3. If a Force Majeure situation arises, the SI shall promptly notify to the CGM in writing, of such conditions and the cause thereof. Unless otherwise directed by the CGM in writing, the SI shall continue to perform its obligations under the agreement as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

#### **8.17. Payments in case of Force Majeure**

1. During the period of their inability of services as a result of an event of Force Majeure, the SI shall be reimbursed for additional costs reasonably and necessarily incurred by them during such period purposes for the purpose of the services and in reactivating the service after the end of such period. During this services restoration period, SI shall not be eligible for agreed upon contract payment terms. The contract payment terms shall be brought into effect once SI restores delivery of contractual based services to CGM.

#### **8.18. Termination for Insolvency**

1. The Department may at any time terminate the contract by giving written notice to the bidder(s), if the bidder(s) becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the bidder(s), provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Department. Bidder agrees to handover all requisite data in terms of code, documents, etc. along with requisite to CGM identified team in this case.

#### **8.19. Resolution of Disputes**

If any dispute arises between parties, then there would be two ways for resolution of the dispute under the Contract.

##### **Amicable Settlement**

Performance of the contract is governed by the terms the conditions of the contract, however at times dispute may arise about any interpretation of any term or condition of contract including the Schedule of Requirement, the clauses of payments etc. In such a situation disputes arising between parties are out of contract, either party of the contract may send a written notice of dispute to the other party. The party receiving the notice of dispute will consider the notice and respond to it in writing within 30 days after receipt. If that party fails to respond within 30 days, or the dispute cannot be amicably settled within 60 days following the response of that party, then clause 8.18 shall become applicable. Amicable settlement clause shall be only applicable in case of dispute is arising out of contract. The said clause shall not be applicable in the case of cyber-crimes and any other type of security breach relating to PHI carried out by either bidder organization itself or its employees.

##### **Resolution of Disputes**

In the case dispute arising between the parties in the contract, which has not been settled amicably, any party can refer the dispute for Arbitration under (Indian) Arbitration and Conciliation Act, 1996. Such disputes shall be referred to Arbitral Tribunal as prescribed by Ministry of Law, Government of India. The Indian Arbitration and Conciliation Act, 1996

and any statutory modification or reenactment thereof, shall apply to these arbitration proceedings.

Arbitration proceedings will be held in India at Gandhinagar and the language of the arbitration proceeding and that of all documents and communications between the parties shall be in English. The decision of the majority of arbitrators shall be final and binding upon both the parties. All arbitration awards shall be in writing and shall state the reasons for the award. The expenses of the arbitration as determined by the arbitrators shall be shared equally between the two parties. However, the expenses incurred by each party in connection with the preparation, presentation shall be borne by the party itself. Arbitration clause shall be only applicable in case of dispute arising out of contract. The said clause shall not be applicable in the case of cyber-crimes and any other type of confidentiality/security breach relating to PHI carried out by either bidder organization itself or its employees. Both the parties agree the jurisdiction of Adjudicating Authority, Gujarat state and Cyber Appellate Tribunal, New Delhi under Information Technology Act, 2000 (including any amendments therein) in case of any contraventions, security and confidentiality breaches.

### **8.20. Arbitration**

1. Arbitration proceedings will be held in India at Gandhinagar and the language of the arbitration proceeding and that of all documents and communications between the parties shall be in English.
2. The decision of the majority of arbitrators shall be final and binding upon both the parties.
3. All arbitration awards shall be in writing and shall state the reasons for the award.
4. The expenses of the arbitration as determined by the arbitrators shall be shared equally between the two parties. However, the expenses incurred by each party in connection with the preparation, presentation shall be borne by the party itself.

### **8.21. Contract Period**

The contract period is of 9 years. However the Department will take the review on all the activities carried out, performance reports submitted by bidder after the completion of 8 Years. The SI agrees that in any case SI shall not terminate the contract. However, the department reserves a right to terminate the contract by sending a notice to the bidder in the events of non-performance, security violations and non-compliance and other professionally undesirable circumstances.

### **8.22. Agreement Amendments**

No variation in or modification of the terms of the agreement shall be made except by written amendment signed by both the parties. However, Department shall, as the situation warrants, in consultation and agreement with bidder shall make major additions to the scope and agree for suitable payments. SI needs to agree upon the time frame set by CGM for implementation of amendments.

### **8.23. Limitation of Liability**

In no event shall either party be liable for any indirect, incidental, consequential, special or punitive loss or damage including but not limited to loss of profits or revenue, loss of data, even if the party shall have been advised of the possibility thereof. In any case, the aggregate liability of the bidder, whatsoever and howsoever arising, whether under the contract, tort or other legal theory, shall not exceed the total charges received as per the Contract, as of the

date such liability arose, from the Purchaser, with respect to the goods or services supplied under this Agreement, which gives rise to the liability.

#### **8.24. Severability**

If any term, clause or provision of the agreement shall be judged to be invalid for any reason whatsoever such invalidity shall not affect the validity or operation of any other term, clause or provision of the agreement and such invalid term clause or provision shall be deemed to have been deleted from the agreement and if the invalid portion is such that the remainder cannot be sustained without it, both parties shall enter into discussions to find a suitable replacement to the clause that shall be legally valid.

#### **8.25. Maintenance service including Warranty Support:**

Free maintenance services including Warranty support shall be provided by the Bidder during the contract period without altering the terms.

#### **8.26. Taxes and Duties**

The SI shall fully familiarize themselves about the applicable GST and other applicable taxes on amount payable by CGM under the contract. The SI shall pay such domestic tax, duties, fees and other impositions (wherever applicable) levied under the applicable law. The billing should be done in Gujarat only.

#### **8.27. Legal Jurisdiction**

All legal disputes between the parties shall be subject to the jurisdiction of the courts situated in Gandhinagar/Ahmedabad of Gujarat only.

#### **8.28. Notice**

Any notice, request or consent required or permitted to be given or made pursuant to this contract shall be in writing. Any such notice request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the party to whom the communication is addressed, or when sent to such party at the address mentioned in the project specific Contract Agreement.

## 9. SECTION: IX ANNEXURES

### 9.1. Pre-Qualification Documents Checklist

Sr.	Documents to be submitted	Submitted (Y / N)	Documentary Proof (Page No.)
1.	DD of tender fee (in separate envelop)		
2.	EMD		
3.	Bid Cover Letter		
4.	Power of Attorney/board resolution to the authorized signatory of the RFP		
5.	Copy of certificate of incorporation (in case of a consortium all the members have to submit) (Form PQ_2)		
6.	Power of Attorney for lead bidder of consortium (Form PQ_3) (applicable in case of a consortium)		
7.	Consortium Agreement with clearly defined roles and responsibilities of each consortium partner (applicable in case of a consortium)		
8.	Certificate from the statutory auditor/CA clearly specifying the net worth of the company for last three financial years 2016-17, 2015-16, 2014-15 (Form PQ_4, in case of a consortium all the members have to submit)		
9.	Certificate from the statutory auditor/ CA specifying the overall annual turnover for last three financial years 2015-16, 2016-17, 2017-18 (Form PQ_4, PQ_5, in case of a consortium all the members have to submit)		
10.	Technically qualified full-time professionals (Form PQ_6) (in case of a consortium all the members have to submit)		
11.	Certificate from the statutory auditor/ CA clearly specifying the annual turnover from GIS based services and GIS based Projects 2015-16, 2016-17, 2017-18 (Form PQ_7, in case of a consortium all the members have to submit)		
12.	Details of the projects executed (Form PQ_8A and PQ_8B) along with work orders and completion certificate from client		
13.	Undertaking for the manpower to be deployed on the project (Form PQ_9)		
14.	Declaration that the firm is not blacklisted by Central Government or any State Government organization/ department in India at the time of submission of the bid		

<b>Sr.</b>	<b>Documents to be submitted</b>	<b>Submitted (Y / N)</b>	<b>Documentary Proof (Page No.)</b>
	(Form PQ_10, in case of a consortium all the members have to submit)		
15.	Copy of the audited profit & loss statements for last three financial years 2015-16, 2016-17, 2017-18 (in case of a consortium all the members have to submit)		
16.	Copy of valid GST registration		
17.	Copy of PAN card along with documentary proof of Income Tax returns for the last three financial years i.e. 2015-16, 2016-17, 2017-18 (in case of a consortium all the members have to submit).		
18.	Performance Security form		

**9.2.FORM: Bid Cover Letter**

<<To be printed on Lead Bidder Company's Letterhead and signed by Authorized Signatory>>

Date: DD/MM/YYYY

To,

DGM-Tech, GIL

**Subject:** "Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining".

**Reference:** Tender No: <No> dated <DD/MM/YYYY>

Dear Sir,

Having examined the Bid document (and the clarification / corrigendum issued thereafter, if any), the receipt of which is hereby duly acknowledged, we, the undersigned, offer to provide the professional services as required and outlined in the Bid document for the Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining. We attach hereto our responses to pre-qualification requirements and technical and commercial proposals as required by the Bid document. We confirm that the information contained in these responses or any part thereof, including the exhibits, and other documents and instruments delivered or to be delivered to the office of the CGM, is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead office of the CGM in its shortlisting process.

We fully understand and agree to comply that on verification, if any of the information provided here is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.

We agree for unconditional acceptance of all the terms and conditions set out in the Bid document (and subsequent clarification/corrigendum, if any) document and also agree to abide by this tender response for a period of 180 days from the Bid Opening Date. We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed the Bid document.

We agree that you are not bound to accept any tender response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products/ services specified in the tender response.

It is hereby confirmed that I/We are entitled to act on behalf of our company/corporation/firm/ organization and empowered to sign this document as well as such other documents, which may be required in this connection.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail Address :

**9.3.PQ\_1 Format of Earnest Money Deposit in the form of Bank Guarantee**

Ref:

Bank Guarantee No.

Date:

To,  
 DGM (Technical)  
 Gujarat Informatics Limited  
 8th Floor, Block -1, Udyog Bhavan,  
 Sector - 11, Gandhinagar - 382017  
 Gujarat, India

Whereas ----- (here in after called "the Bidder") has submitted its bid dated ----- in response to the Tender no: <> for *Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application*, for the Office of the Commissioner of Geology and Mining, Gandhinagar KNOW ALL MEN by these presents that WE -----  
 -----  
 having our registered office at ----- (hereinafter called "the Bank") are bound unto the \_\_\_\_\_ ( hereinafter called " date of validity of BG"), to Gujarat Informatics Limited in the sum of ----- for which payment well and truly to be made to Gujarat Informatics Limited , the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this -----day of -----  
 -----2015.

**THE CONDITIONS of this obligation are:**

1. The E.M.D. may be forfeited:
  - a. if a Bidder withdraws its bid during the period of bid validity
  - b. Does not accept the correction of errors made in the tender document;
  - c. In case of a successful Bidder, if the Bidder fails:
    - (i) To sign the Contract as mentioned above within the time limit stipulated by purchaser  
or
    - (ii) To furnish performance bank guarantee as mentioned above or
    - (iii) If the bidder is found to be involved in fraudulent practices.
    - (iv) If the bidder fails to submit the copy of purchase order & acceptance thereof.

We undertake to pay to the GIL/Purchaser up to the above amount upon receipt of its first written demand, without GIL/ Purchaser having to substantiate its demand, provided that in its demand GIL/ Purchaser will specify that the amount claimed by it is due to it owing to the occurrence of any of the abovementioned conditions, specifying the occurred condition or conditions.

This guarantee will remain valid up to 9 months from the last date of bid submission. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that if this guarantee is extended for a period as mutually agreed between bidder & owner/purchaser, the guarantee shall be valid for a period so extended provided that a written request for such extension is received before the expiry of validity of guarantee.

The Bank shall not be released of its obligations under these presents by any exercise by the OWNER/PURCHAER of its liability with reference to the matters aforesaid or any of them or by

reason or any other acts of omission or commission on the part of the OWNER/PURCHASER or any other indulgence shown by the OWNER/PURCHASER or by any other matter or things.

The Bank also agree that the OWNER/PUCHASER at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the SELLER and not withstanding any security or other guarantee that the OWNER/PURCHASER may have in relation to the SELLER's liabilities.

Dated at \_\_\_\_\_ on this \_\_\_\_\_ day of \_\_\_\_\_ 201.

\_\_\_\_\_

Signed and delivered by

\_\_\_\_\_

For & on Behalf of

Name of the Bank & Branch &  
Its official Address

**Approved Bank: All Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative & Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2016/328/DMO dated 01.05.2017 issued by Finance Department or further instruction issued by Finance department time to time.**



**9.4.PQ\_2 Bidder Information Format**

<To be printed on Lead Bidder Company's Letterhead and signed by Authorized Signatory>

To,

DGM-Tech, GIL

**Subject:** "Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application, for the Office of the Commissioner of Geology and Mining, Gandhinagar".

Dear Sir,

Please find below details of lead bidder and other consortium members for participation in "**Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application**", for the Office of the Commissioner of Geology and Mining, Gandhinagar" tender.

NOTE: To be filled for the lead bidder and each consortium member.

<b>Bidder Information Sheet</b>			
<b>Sr.</b>	<b>Particulars</b>	<b>Lead Bidder</b>	<b>Consortium Member 1/2 /3 (Separate columns)</b>
1.	Name of the Organization		
2.	Type of Organization (Pvt. Ltd./Public Limited/LLP)		
3.	Country of Registered Office		
4.	Address of Registered Office		
5.	Company Registration Details		
6.	Date of Registration		
7.	Details of any Global Certifications (ISO/ ITIL/ CMMi etc.) (please attach relevant certificates)		
8.	PAN/ Equivalent		
9.	VAT/ Equivalent		
10.	Address of Registered Office in India		
11.	No. of Years of Operation in India		
12.	Stake in Consortium (%)		
13.	Authorized Signatory Name		
14.	Authorized Signatory Designation		
15.	Authorized Signatory Contact Details		

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

**Name** :  
**Designation** :  
**Address** :  
**Telephone & Fax** :  
**E-mail Address** :

**Note:** To be submitted with any other supporting details specified as document proof in Section 5.1.

**9.5.PQ\_3: Power of Attorney for Lead Member of Consortium (In case of Consortium)**

Whereas the office of the CGM has invited applications from interested parties for the **“Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application, for the Office of the Commissioner of Geology and Mining, Gandhinagar”**.

Whereas \_\_\_\_\_ and \_\_\_\_\_ (Collectively “Consortium”) being Members of the Consortium are interested in bidding for the Project in accordance with the terms and conditions of the Request for Proposal (RFP document) and other connected documents in respect of the Project, and

Whereas, it is necessary for the Members of the Consortium to designate one of them as the Lead Member with all necessary power and authority to do for and on behalf of the Consortium, all acts, deeds and things as may be necessary in connection with the Consortium’s bid for the Project and its execution.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS

We, \_\_\_\_\_ having our registered office at \_\_\_\_\_, M/s \_\_\_\_\_ having our registered office at \_\_\_\_\_, M/s \_\_\_\_\_ having our registered office at \_\_\_\_\_, (hereinafter collectively referred to as the “Principals”) do hereby irrevocably designate, nominate, constitute, appoint and authorize M/s. \_\_\_\_\_ having its registered office at \_\_\_\_\_, being one of the Members of the Consortium, as the Lead Member and true and lawful attorney of the Consortium (hereinafter referred to as the “Attorney”). We hereby irrevocably authorize the Attorney (with power to sub-delegate) to conduct all business for and on behalf of the Consortium and any one of us during the bidding process and, in the event the Consortium is awarded the concession/contract, during the execution of the Project and in this regard, to do on our behalf and on behalf of the Consortium, all or any of such acts, deeds or things as are necessary or required or incidental to the pre-qualification of the Consortium and submission of its bid for the Project, including but not limited to signing and submission of all applications, bids and other documents and writings, participate in bidders and other conferences, respond to queries, submit information/ documents, sign and execute contracts and undertakings consequent to acceptance of the bid of the Consortium and generally to represent the Consortium in all its dealings with the office of the CGM, and/ or any other Government Agency or any person, in all matters in connection with or relating to or arising out of the Consortium’s bid for the Project and/ or upon award thereof till the Concession Agreement is entered into with the office of the CGM.

AND hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us/ Consortium.

IN WITNESS WHEREOF WE THE PRINCIPALS ABOVE NAMED HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_

For \_\_\_\_\_  
(Signature)  
\_\_\_\_\_  
(Name & Title)

For \_\_\_\_\_  
 (Signature)  
 \_\_\_\_\_  
 (Name & Title)

For \_\_\_\_\_  
 (Signature)  
 \_\_\_\_\_  
 (Name & Title)

Witnesses:

1.

2.

(Executants)

(To be executed by all the Members of the Consortium)

**Notes:**

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Also, wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*
- *For a Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed The Hague Legislation Convention, 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.*

**9.6.PQ\_4: Auditor's Certificate for Net worth of Bidder and Consortium Members**

Date: DD/MM/YYYY

To,  
DGM-Tech, GIL

Dear Sir,

This is to certify that the Net Worth as per books and records of \_\_\_\_\_ for the following financial years are as under.

NOTE: To be filled for the lead bidder and each consortium member.

Sr.	Financial Year Ending	Net Worth (in INR Crores)
1.	31 March 2015	
2.	31 March 2016	
3.	31 March 2017	
<b>Average Turnover</b>		

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail Address :

**Note:** To be submitted with any other supporting details specified as document proof in Section 5.1.

**9.7. PQ\_5: Bidder's and Consortium Members' Overall Annual Turnover**

<To be printed on Lead Bidder Company's Letterhead and signed by Authorized Signatory>

Date: DD/MM/YYYY

To,

DGM-Tech, GIL

**Subject:** "Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining".

Dear Sir,

I have carefully gone through the Terms & Conditions contained in the RFP document for "**Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining**". I hereby declare that below are the details regarding Overall Turnover for our organization as well as the Turnover of consortium members for last 3 financial years.

Sr.	Details	FY 2015-16 (in INR Crores) (i)	FY 2016-17 (in INR Crores) (ii)	FY 2017-18 (in INR Crores) (iii)	Average Turnover [(i)+(ii)+(iii)/3]
1.	Overall Annual Turnover - Lead Bidder				
2.	Overall Annual Turnover - Consortium Member 2				

Contact details of officials for future correspondence regarding the bid process:

Details	Authorized Signatory	Secondary Contact
Name		
Title		
Company Address		
Mobile		
Fax		

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_

**Signature of Authorized Signatory (with official seal)**

Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail Address :

**Note:** To be submitted with any other supporting details specified as document proof in Section 5.1.

**9.8. PQ\_6 Undertaking for Technically Qualified Full-time Professionals on Company's Payroll**

<<To be printed on Company's Letterhead and signed by Authorized Signatory>>

Date: DD/MM/YYYY

To,  
DGM-Tech, GIL

Dear Sir,

I have carefully gone through the Terms & Conditions contained in the RFP document for “**Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application**”. I hereby declare that my company <company's name> has <number > technically qualified professionals as on 31 August 2017.

NOTE: To be filled for the lead bidder and each consortium member.

Using the format below, please provide the summary information on the profiles you propose to include for evaluation and the roles they are expected to play in the project:

Sr.	Name of the Resource	Current Role	Qualifications	Total Experience (in years)	Certifications (e.g., PMP or ITIL or TOGAF or CCNP etc.)
1.					
2.					
3.					

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail Address :



**9.9.PQ\_7: Auditor's Certificate for Turnover of Bidder/Consortium Members from GIS based projects**

Date: DD/MM/YYYY

To,  
DGM-Tech, GIL

Dear Sir,

This is to certify that the Annual Turnover, from GIS based projects (# as defined in PQ), as per books and records of \_\_\_\_\_ for the following financial years are as under.

NOTE: To be filled for the lead bidder and each consortium member.

Sr.	Financial Year Ending	Annual Turnover (in INR Crores)
1.	31 March 2016	
2.	31 March 2017	
3.	31 March 2018	
<b>Average Turnover</b>		

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail Address :

**Note:** To be submitted with any other supporting details specified as document proof in Section 5.1

**9.10. PQ\_8A: Experience of Implementing GIS based Projects**

*<<To be printed on Company's Letterhead and signed by Authorized Signatory>>*

Date: DD/MM/YYYY

To,  
DGM-Tech, GIL

Dear Sir,

I have carefully gone through the Terms & Conditions contained in the RFP document for “**Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining**”. I hereby declare that below are the details regarding relevant work that has been taken up by our company and all the consortium members. Every project should have a separate form with its respective details filled.

**NOTE:** To be filled separately for each project undertaken by the lead bidder and consortium members.

Name of the Project	Lead Bidder				
	Project 1	Project 2	Project 3	-	Project n
<b>General Information</b>					
Client for which the project was executed					
Name of the client contact person(s)					
Designation of client contact person(s)					
Contact details of the client contact person(s)					
<b>Project Details</b>					
Description of the project					
Scope of work of the bidder					
Deliverables of the bidder					
Technologies used					
Outcomes of the project					
<b>Other Details</b>					
Total cost of the project					
Total cost of the services provided by the bidder					
Duration of the project (number of months, start date, completion date, current status)					

Name of the Project	Lead Bidder				
	Project 1	Project 2	Project 3	-	Project n
Other relevant information <for each type of project>					
<b>Mandatory Supporting Documents</b>					
Work Order/Contract for the project					
Completion certificate/Client certificate giving present status of the project and view of the quality of services by the bidder					

Name of the Project	Consortium Member	
	Project 1	Project n
<b>General Information</b>		
Client for which the project was executed		
Name of the client contact person(s)		
Designation of client contact person(s)		
Contact details of the client contact person(s)		
<b>Project Details</b>		
Description of the project		
Scope of work of the bidder		
Deliverables of the bidder		
Technologies used		
Outcomes of the project		
<b>GIS Elements</b>		
GIS specific scope within the project		
GIS deliverables of the bidder		
GIS platforms, technologies used		
<b>Other Details</b>		
Total cost of the project		
Total cost of the services provided by the bidder		
Duration of the project (number of months, start date, completion date, current status)		
Other relevant information <for each type of project>		

<b>Mandatory Supporting Documents</b>		
Work Order/Contract for the project		
Client certificate giving present status of the project and view of the quality of services by the bidder		

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :

Designation :

Address :

Telephone & Fax :

E-mail Address :

**Note:** To be submitted with any other supporting details specified as document proof in Section 5.1.

**9.11. PQ\_8B FORM: Performance Statement**

For each project, please provide a profile, based on the following template. The profile for single project must not exceed one page.

Sr.	Information Sought	Details
<b>Customer Information</b>		
1	Customer Name	
2	Name of the contact person from the client organization who can act as a reference with contact coordinates	
	Name	
	Designation	
	Address	
	Phone Number	
	Mobile Number	
	Email ID	
<b>Project Details</b>		
3	Project Title	
4	Start Date / End Date	
5	Current Status (In Progress / Completed)	
6	Number of responding firm's staff deployed on this project (peak time)	
<b>Value of the Project</b>		
7	Order value of the project (in rupees lakhs)	
8	Narrative description of project: (Highlight the components / services involved in the project that are of similar nature to the project for which this Tender is floated)	
9	Description of actual services provided by the responding firm within the project and their relevance to the envisaged components / services involved in the project for which this RFP is floated	
10	Description of the key areas where significant contributions are made for the success of the project	
11	Order Copies & Performance Certificate received from Client is attached with this statement	

**9.12. PQ\_9: Undertaking for Details of Deployment Plan**

<<To be printed on Company's Letterhead and signed by Authorized Signatory>>

Date: DD/MM/YYYY

To,

DGM-Tech, GIL

**Subject:** "Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining".

Dear Sir,

I have carefully gone through the Terms & Conditions contained in the RFP document for "**Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining**". I hereby declare that the following development plan based deputation of resources will be done during the project.

**NOTE:** To be filled separately by the lead bidder and each consortium member.

<b>Deployment Plan</b>				
<b>Phase</b>	<b>Name of resource</b>	<b>Proposed Role</b>	<b>Proposed Duration</b>	<b>Man month Cost</b>
Requirement Gathering	1)			
	2)			
	3)			
	4)			
Development	1)			
	2)			
	3)			
	4)			
Testing	1)			
	2)			
	3)			
	4)			
Implementation	1)			
	2)			
	3)			
	4)			
Maintenance	1)			
	2)			
	3)			
	4)			

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :

**Designation** :  
**Address** :  
**Telephone & Fax** :  
**E-mail Address** :

**Note:** To be submitted with any other supporting details specified as document proof in Section 7.22.

**9.13. PQ\_10 FORM : Self-Declaration**

(TO BE SUBMITTED PHYSICALLY)

**AFFIDAVIT**

(To be submitted IN ORIGINAL on Non-Judicial Stamp Paper of Rs 100/- duly attested by First Class Magistrate/ Notary public)

I/We, \_\_\_\_\_, age \_\_\_\_\_ years residing at \_\_\_\_\_  
 in capacity of \_\_\_\_\_ M/s. \_\_\_\_\_  
 hereby solemnly affirm that

All General Instructions, General Terms and Conditions, as well as Special Terms & Conditions laid down on all the pages of the Tender Form, have been read carefully and understood properly by me which are completely acceptable to me and I agree to abide by the same.

I/We have submitted following Certificates I Documents for T.E. as required as per General Terms & Conditions as well as Special Terms & Conditions of the tender

Sr.	Name of the Document
1	
2	

All the Certificates I Permissions I Documents I Permits I Affidavits are valid and current as on date and have not been withdrawn I cancelled by the issuing authority.

It is clearly and distinctly understood by me that the tender is liable to be rejected if on scrutiny at any time, any of the required Certificates I Permissions I Documents I Permits I Affidavits is I are found to be invalid I wrong I incorrect I misleading I fabricated I expired or having any defect.

I/We further undertake to produce on demand the original Certificate I Permission I Documents I Permits for verification at any stage during the processing of the tender as well as at any time asked to produce.

I/We also understand that failure to produce the documents in "Prescribed Proforma" (wherever applicable) as well as failure to give requisite information in the prescribed Proforma may result in to rejection of the tender.

My I/ Our firm has not been banned I debarred I black listed at least for three years (excluding the current financial year) by any Government Department I State Government I Government of India I Board I Corporation I Government Financial Institution in context to purchase procedure through tender.

We confirm that I/We have meticulously filled in, checked and verified the enclosed documents I certificates I permissions I permits I affidavits I information etc. from every aspect and the same are enclosed in order (i.e. in chronology) in which they are supposed to be enclosed. Page numbers are given on each submitted document. Important information in each document is "highlighted" with the help of "marker pen" as required.

The above certificates/ documents are enclosed separately and not on the Proforma printed from tender document.



I We say and submit that the Permanent Account Number (PAN) given by the Income Tax Department is \_\_\_\_\_, which is issued on the name of \_\_\_\_\_  
 [Kindly mention here either name of the Proprietor (in case of Proprietor Firm) or name of the tendering firm;1, whichever is applicable].

I/We understand that giving wrong information on oath amounts to forgery and perjury, and I/We am/are aware of the consequences thereof, In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our EMD/PBG/cancel the award of contract. In this event, this office reserves the right to take legal action on me/us.

I / We have physically signed &stamped all the above documents along with copy of tender documents (page no. ---- to --).

We hereby confirm that all our quoted items meet or exceed the requirement and are absolutely compliment with specification mentioned in the bid document.

My I/ Our Company has not filed any Writ Petition, Court matter and there is no court matter filed by State Government and its Board Corporation, is pending against our company .

I / We hereby commit that we have paid all outstanding amounts of dues/taxes/cess/charges/fees with interest and penalty.

In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of Tender Committee for disqualification will be accepted by us.

Whatever stated above is true and correct to the best of my knowledge and belief.

Date:

Stamp & Sign of the Tenderer

Place:

(Signature and seal of the Notary)

**9.14. Documents Checklist for Technical Bid**

Sr.	Documents to be submitted	Submitted (Y / N)	(Page No.)
1.	Bidder competence (Turnover) related docs (Form TQ_1 & TQ_2)		
2.	Details of meeting functional specifications as mentioned in section 4.4 for customized GIS application		
3.	Details of projects executed (Form TQ_3) of the following projects (under separate headers) <ul style="list-style-type: none"> <li>• Executing large scale GIS projects in the past 3 years</li> <li>• Experience in executing projects in Mining and Geology domains</li> <li>• building and integrating bespoke application or COTS products and integrate it with applications as mentioned in Scope of Work in the past 3 years</li> <li>• Experience in executing government projects at central/ state level</li> </ul>		
4.	Understanding of the project		
5.	Description of the design, detailed technical solution architecture and various components including (infrastructure architecture, application architecture, data architecture and layer architecture)		
6.	Details of the application software proposed		
7.	Integration approach with existing applications and infrastructure		
8.	Reasoning for selection of the proposed technology over other options		
9.	Strength of the bidder to provide services including examples or case-studies of similar solutions deployed for other clients		
10.	Approach and methodology for design, installation, configuration and maintenance of hosted components, data recovery, hosting infrastructure of the project		
11.	Approach and methodology for management of SLA requirements specified in the bid. Bidder is required to clearly articulate how the SLA requirements would be adhered.		
12.	Detailed project plan with timelines, resource allocation, milestones etc. for supply, installation and commissioning of the various project components		
13.	Risk mitigation plan		

<b>Sr.</b>	<b>Documents to be submitted</b>	<b>Submitted (Y / N)</b>	<b>(Page No.)</b>
14.	Project Management Methodology for Pre-Implementation, Implementation phase and support for Post-Implementation		
15.	Technically qualified full-time professionals (Form TQ_4)		
16.	Manpower deployed on the project (Form TQ_5)		
17.	CVs of the manpower proposed (Form TQ_6)		
18.	Make and model of all IT as well as Non-IT components		
19.	Compliance to Technical & Functional specifications as mentioned in the Scope of Work		
20.	Detailed Bill of Materials without prices		
21.	Authorization letter from OEMs (Form TQ_7) for all the items mentioned in Section 4.2		

**9.15. TQ\_1 Bidder's and Consortium Members' Annual Turnover**

<To be printed on Lead Bidder Company's Letterhead and signed by Authorized Signatory>

Date: DD/MM/YYYY

To,

DGM- Tech, GIL

Dear Sir,

**Subject:** "Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining".

I have carefully gone through the Terms & Conditions contained in the RFP document for "**Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining**". I hereby declare that below are the details regarding Overall Turnover from GIS related businesses for our organization as well as the Turnover of consortium members for last 3 financial years.

Sr.	Details	FY 2015-16 (in INR Crores) (i)	2016-17 (in INR Crores) (ii)	FY 2017-18 (in INR Crores) (iii)	Average Turnover [(i)+(ii)+(iii)/3]
1.	Overall Annual Turnover - Lead Bidder				
2.	Overall Annual Turnover - Consortium Member 2				

Contact details of officials for future correspondence regarding the bid process:

Details	Authorized Signatory	Secondary Contact
Name		
Title		
Company Address		
Mobile		
Fax		

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

---

**Signature of Authorized Signatory (with official seal)**

Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail Address :

**Note: To be submitted with any other supporting details specified as document proof in Section 5.3 (Technical evaluation criteria).**

**9.16. TQ\_2: Auditor's Certificate for Net worth of Bidder and Consortium Members**

Date: DD/MM/YYYY

To,  
DGM-Tech, GIL

Dear Sir,

This is to certify that the Net Worth as per books and records of \_\_\_\_\_ for the following financial years are as under.

NOTE: To be filled for the lead bidder and each consortium member.

Sr.	Financial Year Ending	Net Worth (in INR Crores)
1.	31 March 2016	
2.	31 March 2017	
3.	31 March 2018	
<b>Average Turnover</b>		

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail Address :

**Note:** To be submitted with any other supporting details specified as document proof in Section 5.3 (Technical Evaluation Criteria).

**9.17. TQ\_3: Details of Experience of Executing Projects**

<<To be printed on Company's Letterhead and signed by Authorized Signatory>>

Date: DD/MM/YYYY

To,

DGM-Tech, GIL

Dear Sir,

I have carefully gone through the Terms & Conditions contained in the RFP document for “**Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining**”. I hereby declare that below are the details regarding relevant work that has been taken up by our company and all the consortium members.

NOTE: To be filled separately for each project undertaken by the lead bidder and consortium members.

Name of the Project	Lead Bidder				
	Project 1	Project 2	Project 3	-	Project n
<b>General Information</b>					
Client for which the project was executed					
Name of the client contact person(s)					
Designation of client contact person(s)					
Contact details of the client contact person(s)					
<b>Project Details</b>					
Description of the project					
Scope of work of the bidder					
Deliverables of the bidder					
Technologies used					
<b>Other Details</b>					
Total cost of the project					
Total cost of the services provided by the bidder					
Duration of the project (number of months, start					

Name of the Project	Lead Bidder				
	Project 1	Project 2	Project 3	-	Project n
date, completion date, current status)					
Other relevant information <for each type of the project type>					
<b>Mandatory Supporting Documents</b>					
Work Order/Contract for the project					
Client certificate giving present status of the project and view of the quality of services by the bidder					

Name of the Project	Consortium Member	
	Project 1	Project n
<b>General Information</b>		
Client for which the project was executed		
Name of the client contact person(s)		
Designation of client contact person(s)		
Contact details of the client contact person(s)		
<b>Project Details</b>		
Description of the project		
Scope of work of the bidder		
Deliverables of the bidder		
Outcomes of the project		
<b>Other Details</b>		
Total cost of the project		
Total cost of the services provided by the bidder		
Duration of the project (number of months, start date, completion date, current status)		
Other relevant information <for each type of the project type>		
<b>Mandatory Supporting Documents</b>		



Name of the Project	Consortium Member	
	Project 1	Project n
Work Order/Contract for the project		
Client certificate giving present status of the project and view of the quality of services by the bidder		

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :  
Designation :  
Address :  
Telephone & Fax :  
E-mail Address :

**Note:** To be submitted with any other supporting details specified in Technical Evaluation section /section 5.3.

### 9.18. TQ\_4 Project Team - Undertaking for Technically Qualified Full-time Professionals on Company's Payroll

<<To be printed on Company's Letterhead and signed by Authorized Signatory>>

Date: DD/MM/YYYY

To,  
DGM-Tech, GIL

Dear Sir,

I have carefully gone through the Terms & Conditions contained in the RFP document for **“Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining”**. I hereby declare that my company <company's name> has <number > technically qualified professionals as on 31 August 2017.

NOTE: To be filled for the lead bidder and each consortium member.

Using the format below, please provide the summary information on the profiles you propose to include for evaluation and the roles they are expected to play in the project:

Sr.	Name of the Resource	Proposed Role	Highest Qualification	Total Experience (in years)	Total Relevant Experience for the Proposed Position (in Years)	Certifications (e.g., PMP or ITIL or TOGAF or CCNP etc.)
1.						
2.						
3.						

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :

Designation :

Address :

Telephone & Fax :

E-mail Address :

**9.19. TQ\_5: Undertaking for Manpower Deployed on Project**

<<To be printed on Company's Letterhead and signed by Authorized Signatory>>

Date: DD/MM/YYYY

To,

DGM-Tech, GIL

Dear Sir,

I have carefully gone through the Terms & Conditions contained in the RFP document for **“Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining”**. I hereby declare that following resources are being proposed for the project.

NOTE: To be filled separately by the lead bidder and each consortium member.

**Proposed Resources/Manpower Till Go Live**

Sr.	Role	Month wise time to be spent by each personnel (in days)						Total	
		Month 1	Month 2	Month 3	...	...	Go-Live		
1	Project Manager								Onsite/Offsite
2									Onsite/Offsite
3									Onsite/Offsite
4									Onsite/Offsite
5									Onsite/Offsite
6									Onsite/Offsite
7									Onsite/Offsite
8									Onsite/Offsite
9									Onsite/Offsite
10									Onsite/Offsite
11									Onsite/Offsite
12									Onsite/Offsite
13									Onsite/Offsite
14									Onsite/Offsite
15									Onsite/Offsite
16									Onsite/Offsite
17									Onsite/Offsite
	<Add more rows as required>								

			<b>Total</b>						

**Proposed resources for Go-Live (Operation & Maintenance)**

Sr.	Role	Month wise time to be spent by each personnel (in days)						Total	
		Month 1	Month 2	Month 3	...	...	Go-Live		
1	Project Manager								Onsite/Offsite
2									Onsite/Offsite
3									Onsite/Offsite
4									Onsite/Offsite
5									Onsite/Offsite
6									Onsite/Offsite
7									Onsite/Offsite
8									Onsite/Offsite
9									Onsite/Offsite
10									Onsite/Offsite
11									Onsite/Offsite
12									Onsite/Offsite
13									Onsite/Offsite
14									Onsite/Offsite
15									Onsite/Offsite
16									Onsite/Offsite
17									Onsite/Offsite
	<Add more rows as required>								
			<b>Total</b>						

**Proposed resources for Go-Live (Operation & Maintenance)**

Sr.	Manpower Detailed Breakup				Total
		Year 1	Year 2	Year 3	
1	Project Manager				Onsite/Offsite

2					Onsite/Offsite
3					Onsite/Offsite
4					Onsite/Offsite
5					Onsite/Offsite
6					Onsite/Offsite
7					Onsite/Offsite
8					Onsite/Offsite
	<Add more rows as required>				Onsite/Offsite
		<b>Total</b>			

#### Summary of proposed resources

Sr.	Name of the Resource	Proposed Role	Highest Qualification	Total Experience (in years)	Total Relevant Experience for the Proposed Position (in Years)	Certifications (e.g., PMP or ITIL or TOGAF or CCNP etc.)
1.						
2.						
3.						
4.	<Add more rows as required>					

I further certify that I am competent officer in my company to make this declaration.

Yours sincerely,

\_\_\_\_\_  
Signature of Authorized Signatory (with official seal)

Name :

Designation :

Address :

Telephone & Fax :

E-mail Address :

**Note:** To be submitted with any other supporting details specified as document proof in Section 5.3.

**9.20. TQ\_6: CVs of the Manpower Proposed**

&lt;&lt;CV of the proposed Manpower to be submitted in the following format&gt;&gt;

1.	Name of the Staff																				
2.	Current Designation in the Organization																				
3.	Proposed Role in the Project																				
4.	Proposed Responsibilities in the Project																				
5.	Date of Birth																				
6.	Education	▪ <Degree>/<Diploma>, <College/University>, <Year of Passing>																			
7.	Key Training and Certifications																				
8.	Language Proficiency	<table border="1"> <thead> <tr> <th>Language</th> <th>Reading</th> <th>Writing</th> <th>Speaking</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Language	Reading	Writing	Speaking												
Language	Reading	Writing	Speaking																		
9.	Employment Record (For the Total Relevant Experience)	<table border="1"> <thead> <tr> <th>From / To:</th> <th>Employer</th> <th>Position Held</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>				From / To:	Employer	Position Held													
From / To:	Employer	Position Held																			
10.	Total No. of Years of Work Experience																				
11.	Total No. of Years of Experience for the Role Proposed																				
12.	Highlights of relevant assignments handled and significant accomplishments	<p>Use following format for each project</p> <table border="1"> <tr> <td><b>Name of Assignment/Project:</b></td> <td></td> </tr> <tr> <td><b>Year:</b></td> <td></td> </tr> <tr> <td><b>Location:</b></td> <td></td> </tr> <tr> <td><b>Client:</b></td> <td></td> </tr> <tr> <td><b>Main Project Features:</b></td> <td></td> </tr> <tr> <td><b>Positions Held:</b></td> <td></td> </tr> <tr> <td><b>Activities Performed:</b></td> <td></td> </tr> </table>				<b>Name of Assignment/Project:</b>		<b>Year:</b>		<b>Location:</b>		<b>Client:</b>		<b>Main Project Features:</b>		<b>Positions Held:</b>		<b>Activities Performed:</b>			
<b>Name of Assignment/Project:</b>																					
<b>Year:</b>																					
<b>Location:</b>																					
<b>Client:</b>																					
<b>Main Project Features:</b>																					
<b>Positions Held:</b>																					
<b>Activities Performed:</b>																					

**Note:** Each CV must be accompanied by the following undertaking from the staff member:

**Certification**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

[Signature of staff member]

Date:

(Authorized Signatory)

Name: \_\_\_\_\_

Designation & Authority: \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Stamp: \_\_\_\_\_

Company Name: \_\_\_\_\_

Business Address: \_\_\_\_\_



**9.21. TQ\_7: GIS Platform Compliance Matrix**

Please follow coding to answer the compliance matrix given as below:

**Column A Coding**

Y = This feature is provided

N = This feature cannot be provided.

Note: If “Y” is the response for a requirement in Column A, you must complete Column B.

**Column B Coding**

F = Fully meets requirement “out-of-the box”

P = Meets with additional procedures

Note: If “P” is the response for a requirement in Column B, you must complete Column C.

**Column C Coding**

W = Work around Available

A = Available in next version which is scheduled within 6 months of the tender opening date (include estimated date of release)

C = Customization / change of source code would be required

Sr. No.	Criteria	Column A (Y/N)	Column B (F/P)	Column C (M/W/A/C)
1	Platform for GIS Application Software should be able to operate on Windows OS, Linux etc.			
2	GIS Software must allow CGM to implement a centrally managed GIS providing the advantage of lower cost of ownership through single, centrally managed, focused GIS applications (such as a Web application) that can be scalable to support multiple users and saves the cost of installing and administering desktop applications on each user's machine. And the same technology shall be used for seamless integration			
3	Proposed customized GIS Application Software should be able to integrate with the other Solution being developed at CGM			
4	Software should provide for audit trail of changes to the data and also support metadata management			
5	The software should have provision for definition of map projection system and geodetic datum to set all the maps in a common projection and scale			
6	The software should provide facility to click on any feature of the map and return a select set of attributes for feature			
7	Facility to perform the spatial intersection analysis like plot area with buffer zone to calculate road-widening impact on adjacent land. The software should also have the functionalities like spatial overlap, summarize lease area.			
8	GIS Software should be able to import / export data from / to various formats like AutoCAD, Arc GIS, MapInfo, GeoMedia, etc.			
9	Software should support printing spatial data at different scales and at adjustable print quality			
10	The software should support images with More than 8 bits per band (11,16,24)			
11	ODBC compliance enabling interface with RDBMS like Oracle, SQL server, Access etc. should be there			
12	The system should provide facility to exchange the GIS Data with other platform applications/office tools like Word, and Excel to use GIS data and generate reports like graph and charts.			
13	Advanced editing and data capturing functions, which will help the user to prepare the graphic data in desired format should be available			
14	Software should allow the user to perform undo / redo operations during edits			
15	Facility to capture the geometry from the layout maps, by maintaining the coincident geometry i.e. when a new polygon is captured simply by selecting an existing polygon to digitize the common boundary thereby ensuring no slivers or gaps between adjacent area features like parcels.			
16	The software should allow user to open raster images, or satellite images of various standard format.			

Sr. No.	Criteria	Column A (Y/N)	Column B (F/P)	Column C (M/W/A/C)
17	Software should allow users to export query results to various file formats like EMF, BMP, TIFF, JPEG, PDF, etc.			
18	Software should have provision to create and save macros / templates using the inbuilt Rapid Application Development (RAD) platform			
19	Software should support fully automatic and semi-automatic raster to vector conversion tools			
20	Facility to define joins between the two tables (graphic / non-graphic) of the database to get integrated information in the table and perform GIS analysis			
21	The software should allow user to create layers or shortcuts to geographic data that store symbology for displaying features			
22	The customized application should provide the user facility to make dynamic queries on GIS GUI. The application should allow users to store and retrieve standard queries used by them in day to day operation			
23	Software should have various query tools for queries based on attributes, location, etc.			
24	The software should have a provision of hyper linking the GIS feature as well as its attribute fields with existing documents, drawing files or scanned maps related to that feature			
25	The software should have the ability to add data from internet or intranet users to the existing map data so that data from other sources can also be utilized by CGM			
26	Software should have basic Navigation tools like the software should have tools to Pan, Zoom, and Rotate the Map according to user requirements and should also be able to use Mouse Wheel for zoom-in and zoom-out, The software should have ability to search and to zoom into the user specified x, y coordinates, The software should have facility to create and organize user desired number of Spatial Bookmarks and should be able to share the same.			
27	The software should support Map Services, Open Geospatial Consortium, Inc. (OGC), Web Coverage Service (WCS), Open Geospatial Consortium, Inc., Web Map Service (WMS), creation & consumption both.			
28	The software should have capabilities to direct read the CAD data, edit the CAD data as well can assign coordinate system to the CAD data.			
29	The software should support all types of raster formats and services like ERDAS IMAGINE, Grid Stack, and Grid Stack File, Geodatabase Raster, GIF, JFIF, JPEG, JP2, PNG, GeoTIFF, Oracle Spatial GeoRaster & Web Coverage Service (WCS, OGC standard), Web Map Service (WMS), any other OGC standard.			
30	Should be able to support broad range of clients including browsers, desktops, Mobile Handsets, Palmtops, Tough books, etc.			

Sr. No.	Criteria	Column A (Y/N)	Column B (F/P)	Column C (M/W/A/C)
31	Should support a variety of Mobile Devices & Platforms like Android, iOS, Windows along with bundled Apps and SDKs for customizing Apps.			
32	The software should support vector and raster referencing and also with the help of various transformation methods.			
33	The software should support multiple Predefined Geographic Coordinate Systems, multiple Projected Coordinate Systems, and multiple Vertical Coordinate Systems and Ability to Create and Use Custom Coordinate Systems			
34	The software should have geometric construction options and geometric creation tools.			
35	The software should have capabilities to create hotspot, density and interpolation			
36	The software should have extensive capabilities for spatial editing like editing, Multiple Layers, integration with field editing, snapping, topology, tolerance, multipart feature editing.			
37	The software should support Coordinate Geometry tools.			
38	The software should support parcel editing			
39	The software must have Multiuser GIS database editing option where users can Isolate Editing Projects in Separate Versions/sessions/workspaces (Create).			
40	The software should support the Topology and Topology rules.			
41	The software should have tools and options like raster management, conversion tools, proximity, analysis, packaging, spatial statistics, geometric network tools, data indexing etc.			
42	The software should have various symbology options, User-Imported Picture Symbols (PNG, JPG, JPEG, GIF), Modify the Geometric Effects of a Symbol: Line Width, Hatch Size. And the software should have Geology and Mining related symbologies.			
43	The software should have advanced cartography options			
44	The software should had address matching and geocoding tools			
45	The software should have advanced labelling options which can have labelling options for Mining and geology related data.			

**9.22. TQ\_8: Format for Authorization Letters from OEMs**

<<To be printed on OEM's Letterhead and signed by Authorized Signatory of OEM>>

Date: DD/MM/YYYY

To,  
DGM-Tech, GIL

**Subject:** "Survey, Base Map creation and Implementation, post Implementation of Enterprise GIS Application for the office of the Commissioner of Geology and Mining" – Authorization Letter from OEMs.

**Reference:** Tender No: <No> dated <DD/MM/YYYY>

Dear Sir,

We \_\_\_\_\_, (name and address of the manufacturer) who are established and reputed manufacturers of \_\_\_\_\_ having factories at \_\_\_\_\_ (addresses of manufacturing/development locations) do hereby authorize M/s \_\_\_\_\_ (name and address of the bidder) to bid, negotiate and conclude the contract with you against the above mentioned tender for the above equipment/software manufactured/developed by us.

We herewith certify that the above mentioned equipment/software products are not end of the life and we hereby undertake to support these /software for the duration of minimum 6 years from the date of this letter.

Yours faithfully,

(Signature of the Authorized Signatory of OEM)

Name:

Designation:

Seal:

Date:

Place:

Business Address:

(Signature of the Authorized Signatory of Lead Bidder)

Name:

Designation:

Seal:

Date:

Place:

Business Address:

### 9.23. TQ\_9: BOM for provided components

The Bidder should provide the proposed Bill of Material (BoM) here. Bidders are required to mention the details of the make/brand and model against each line item, wherever applicable. The bid can be considered non-responsive in the absence of such details. Once the bidder provides this information along with the technical bid, the bidder will not be allowed to change the proposed make and model.

The list of items mentioned hereunder is indicative. The Bidder shall consider the components and quantity to fulfill the RFP and project requirements in totality.

**BoM:** The bidder should give details of all the proposed IT components, without specifying the costs in the format given below. Please note that the bid shall get disqualified if Bidder gives price details in the technical document.

#	Name of Item	OEM/ Make	Exact Model	Part No.	Quantity/ License Count Offered	Compliance to the requirements mentioned in RFP (Y / N)
1.	GIS Platform License (Enterprise server based)					
2.	GIS Platform – Desktop (Enterprise Editing license)					
3.	Software Licenses for Servers					
4.	Servers (Database/Application / Web / Staging)					

- Make and Model (one & only one unique Make and Model per BOQ item is required) of all IT along with datasheets highlighting Technical Specification parameters in each datasheet for compliances.
- Compliance to Technical and Functional specifications as mentioned in the RFP against each specification feature.

**Indicative Minimum Technical Requirements for IT Infrastructure** (*Bidder is required to propose infrastructure in line with the technical & functional requirements and fulfills SLA's as specified in the RFP document*)

**9.24. FORM: Project Team**

Using the format below, please provide the summary information on the profiles you propose to include for evaluation and the roles they are expected to play in the project:

<b>Sr.</b>	<b>Proposed Role</b>	<b>Number of Resources</b>	<b>Area of Expertise</b>	<b>Key Responsibilities</b>

**CV for Professional Staff Proposed**

Please provide detailed professional profiles of the staff proposed for evaluation. The profile for a single staff member must not exceed two pages.

<b>Sr.</b>	<b>Description</b>	<b>Details</b>
1	Name	
2	Designation	
3	Role proposed for	
4	Current responsibilities in the responding firm	
5	Total years of relevant experience	
6	Years of experience with the responding firm	
7	Educational qualifications:	
	Degree	
	Academic institution graduated from	
	Year of graduation	
	Specialization (if any)	
8	Professional certifications (if any)	
9	Professional Experience details (project-wise):	
	Project name	
	Client	
	Key project features in brief	
	Location of the project	
	Designation	
	Role	
	Responsibilities and activities	
Duration of the project		
10	Covering Letter: Summary of the Individual's experience which has direct relevance to the project (maximum 1 page)	

Each CV must be accompanied by the following undertaking from the staff member:

**Certification**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

[Signature of staff member]

Date:

(Authorized Signatory)

Name: \_\_\_\_\_

Designation & Authority: \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Stamp: \_\_\_\_\_

Company Name: \_\_\_\_\_

Business Address: \_\_\_\_\_



**9.25. Performance Bank Guarantee Form**

(To be stamped in accordance with Stamp Act)

Ref: \_\_\_\_\_ Bank Guarantee No. \_\_\_\_\_  
 Date: \_\_\_\_\_

To  
 Name & Address of the Purchaser/Indenter

\_\_\_\_\_  
 \_\_\_\_\_

Dear Sir,

In consideration of Name & Address of the Purchaser/Indenter, Government of Gujarat, Gandhinagar (hereinafter referred to as the OWNER/PURCHASER which expression shall unless repugnant to the context or meaning thereof include successors, administrators and assigns) having awarded to M/s. \_\_\_\_\_ having Principal Office at \_\_\_\_\_ (hereinafter referred to as the "SELLER" which expression shall unless repugnant to the context or meaning thereof include their respective successors, administrators, executors and assigns) the supply of \_\_\_\_\_ by issue of Purchase Order No. \_\_\_\_\_ Dated \_\_\_\_\_ issued by Gujarat Informatics Ltd. ,Gandhinagar for and on behalf of the OWNER/PURCHASER and the same having been accepted by the SELLER resulting into CONTRACT for supplies of materials/services as mentioned in the said purchase order and the SELLER having agreed to provide a Contract Performance and Warranty Guarantee for faithful performance of the aforementioned contract and warranty quality to the OWNER/PURCHASER, \_\_\_\_\_ having Head Office at (hereinafter referred to as the 'Bank' which expressly shall, unless repugnant to the context or meaning thereof include successors, administrators, executors and assigns) do hereby guarantee to undertake to pay the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) to the OWNER/PURCHASER on demand at any time up to \_\_\_\_\_ without a reference to the SELLER. Any such demand made by the OWNER/PURCHASER on the Bank shall be conclusive and binding notwithstanding any difference between Tribunals, Arbitrator or any other authority.

The Bank undertakes not to revoke this guarantee during its currency without previous consent of the OWNER/PURCHASER and further agrees that the guarantee herein contained shall continue to be enforceable till the OWNER/PURCHASER discharges this guarantee. OWNER/PURCHASER shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance by the SELLER of the aforementioned CONTRACT. The OWNER/ PURCHASER shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the SELLER, and to exercise the same at any time in any manner, and either to enforce to forebear to enforce any covenants contained or implied, in the aforementioned CONTRACT between the OWNER/PURCHASER and the SELLER or any other course of or remedy or security available to the OWNER/PURCHASER.

The Bank shall not be released of its obligations under these presents by any exercise by the OWNER/PURCHAER of its liability with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of the OWNER/PURCHASER or any other indulgence shown by the OWNER/PURCHASER or by any other matter or things.

The Bank also agree that the OWNER/PUCHASER at its option shall be entitled to enforce this Guarantee against the Bank as a Principal Debtor, in the first instance without proceeding against the

**SELLER** and notwithstanding any security or other guarantee that the **OWNER/PURCHASER** may have in relation to the **SELLER's** liabilities.

Notwithstanding anything contained herein above our liability under this Guarantee is restricted to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) and it shall remain in force up to and including \_\_\_\_\_ and shall be extended from time to time for such period as may be desired by the **SELLER** on whose behalf this guarantee has been given.

Dated at \_\_\_\_\_ on this \_\_\_\_\_ day of \_\_\_\_\_ 2017

\_\_\_\_\_  
Signed and delivered by

\_\_\_\_\_  
For & on Behalf of

Name of the Bank & Branch & Its official Address

**9.26. FORM: Financial Bid****Financial Bid Format**

<b>Item</b>	<b>Total Price (INR)</b>	<b>Total Price in words (INR)</b>
<b>[1] Capital Cost</b>		
<i>[1.1] Software license cost</i>		
<i>[1.2] Implementation Cost</i>		
<b>Total Capital Cost [1] = [1.1 + 1.2]</b>		
<b>[2] Operational Cost for 8 Years</b>		
<i>[2.1] Annual Maintenance Cost for 8 Years</i>		
<i>[2.2] Man-month rates – Various Technical Resources</i>		
<b>Total Operational Expenditure [2] = [2.1 + 2.2]</b>		
<b>Total Project Cost [1+2]</b>		
<b>Note:</b> All unit rates indicated in the schedules shall be inclusive of (not limited to supply), installation, duties, transport, packing and transit insurance charges etc.		

**Details of Commercial Components****[1] Capital Cost Details****[1.1] Software license cost**

<b>Sr.</b>	<b>System Software</b>	<b>Quantity</b>	<b>Unit Cost (INR)</b>	<b>Total Cost (INR)</b>
1.	Software Licenses for Database Server			
2.	Software Licenses for Servers			
3.	Web Server License			
4.	GIS Platform License (Enterprise)			
5.	GIS Platform – Desktop (Editor license) (minimum 3)			
6.	Any other, please specify			
<b>Total (INR)</b>				

**[1.2] Implementation cost**

<b>Sr.</b>	<b>Description</b>	<b>Quantity (A)</b>	<b>Unit Cost (INR)</b>	<b>Total Cost (INR)</b>
1.	Procurement of satellite imagery			
2.	Processing of satellite imagery and base map creation			
3.	Georeferencing, Mosaicking and creating thematic layers for the Lease hold village cadastral.			
4.	Georeferencing, digitization and mapping of exploration maps			

Sr.	Description	Quantity (A)	Unit Cost (INR)	Total Cost (INR)
5.	Cost of survey, digitization & mapping of existing Major leases using DGPS			
6.	Cost of survey, digitization & Mapping of existing Minor leases using DGPS			
7.	Customized GIS Application Development including training			
<b>Total(INR)</b>				

## [2] Operation & Maintenance

### [2.1] Annual Maintenance Cost (ATS / Application Support)

Year	Amount (INR) (A)
First	
Second	
Third	
Fourth	
Fifth	
Sixth	
Seventh	
Eighth	
<b>Total</b>	

### [2.2] Man Power charges for Project personnel

Details of the Personnel/ Profile	Number of Resources to be deployed (A)	Number of Man Months (B)	Unit Man month charges (C)	Total Charges (A*B*C)
Project Manager				
Team Lead (GIS)				
Business Analyst / Functional Consultant				
Database Administrator				
Team members (Developers)				
System Administrator				
Geologist / Mining Engineer / Environmental Engineer				
<b>Grand Total</b>				

#### Note:

- Taxes are extra as applicable GST at the time of invoicing.
- The cost of the above parts / services should be matched with the breakup of each component mentioned in Part.

**9.27. List of Products/Solutions Which Requires MAF from OEMs**

The bidder/lead bidder shall submit Manufacturers Authorization Certificate (MAF) from Original Equipment Manufacturers (OEMs) of the following products/ solutions:

<b>Sr.</b>	<b>Product</b>	<b>Submitted (Yes/No)</b>
1.	GIS Application Platform	
2.	Centralized Anti-virus Solution	
3.	RDBMS Licenses (If Any)	
4.	Next generation/UTM Firewall	
5.	Server Load Balancer	
6.	All Servers	
7.	Storage (Primary and Secondary)	
8.	Tape Drive and Backup Solution	
9.	Online UPS	

**9.28. AFFIDAVIT****(TO BE SUBMITTED PHYSICALLY ALONG WITH EMD & BID PROCESSING FEES)**

(To be submitted IN ORIGINAL on Non-Judicial Stamp Paper of Rs 100/- duly attested by First Class Magistrate/ Notary public)

I/We, \_\_\_\_\_, age \_\_\_\_\_ years residing at \_\_\_\_\_ in capacity of \_\_\_\_\_ M/s. \_\_\_\_\_ hereby solemnly affirm that

All General Instructions, General Terms and Conditions, as well as Special Terms & Conditions laid down on all the pages of the Tender Form, have been read carefully and understood properly by me which are completely acceptable to me and I agree to abide by the same.

I I We have submitted following Certificates I Documents for T.E. as required as per General Terms & Conditions as well as Special Terms & Conditions of the tender

Sr. No.	Name of the Document
1	
2	

All the Certificates I Permissions I Documents I Permits I Affidavits are valid and current as on date and have not been withdrawn I cancelled by the issuing authority.

It is clearly and distinctly understood by me that the tender is liable to be rejected if on scrutiny at any time, any of the required Certificates I Permissions I Documents I Permits I Affidavits is I are found to be invalid I wrong I incorrect I misleading I fabricated I expired or having any defect.

I I We further undertake to produce on demand the original Certificate I Permission I Documents I Permits for verification at any stage during the processing of the tender as well as at any time asked to produce.

I I We also understand that failure to produce the documents in "Prescribed Proforma" (wherever applicable) as well as failure to give requisite information in the prescribed Proforma may result in to rejection of the tender.

My I Our firm has not been banned I debarred I black listed at least for three years (excluding the current financial year) by any Government Department I State Government I Government of India I Board I Corporation I Government Financial Institution in context to purchase procedure through tender.

I I We confirm that I I We have meticulously filled in, checked and verified the enclosed documents I certificates I permissions I permits I affidavits I information etc. from every aspect and the same are enclosed in order (i.e. in chronology) in which they are supposed to be enclosed. Page numbers are given on each submitted document. Important information in each document is "highlighted" with the help of "marker pen" as required.

The above certificates/ documents are enclosed separately and not on the Proforma printed from tender document.

I I We say and submit that the Permanent Account Number (PAN) given by the Income Tax Department is \_\_\_\_\_, which is issued on the name of \_\_\_\_\_ [Kindly mention here either name of the Proprietor (in case of Proprietor Firm) or name of the tendering firm;1, whichever is applicable].

I I We understand that giving wrong information on oath amounts to forgery and perjury, and I/We am/are aware of the consequences thereof, In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our EMD/PBG/cancel the award of contract. In this event, this office reserves the right to take legal action on me/us.

I / We have physically signed & stamped all the above documents along with copy of tender documents (page no. ---- to -- ).

I I We hereby confirm that all our quoted items meet or exceed the requirement and are absolutely compliment with specification mentioned in the bid document.

My I Our Company has not filed any Writ Petition, Court matter and there is no court matter filed by State Government and its Board Corporation, is pending against our company .

I / We hereby commit that we have paid all outstanding amounts of dues/taxes/cess/charges/fees with interest and penalty.

In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of Tender Committee for disqualification will be accepted by us.

Whatever stated above is true and correct to the best of my knowledge and belief.

Date:

Stamp & Sign of the Tenderer

Place:

(Signature and seal of the Notary)