

**Clarifications of Queries of Tender 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**

**Tender no. SW03082018167**

#	Tender Pg. no.	Clause as per Tender	Clarification required	Clarifications by GIL
1.	Pg No.11 Clause No. 2.3 Eligibility Criteria - SI No.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.	Since this bid is specifically for GIS and related scope, we request to change the term as below:  The Lead Partner / bidder must have average annual turnover of INR 25 Crores in last three financial years from GIS software, GIS application & related GIS survey & services.	No Change. As per RFP.
2.	Pg No.11 Clause No. 2.3 Eligibility Criteria - SI No.5	The Lead Partner / Consortium partner should have at least 50 permanent resources working for GIS based services including GIS based development.- Request of attachment - CVs of at least 100 resources as per the format given in this RFP.	Since criteria requires 50 permanent resources, CVs of 50 resources should be submitted. Request you to kindly clarify and suggest.	Ok. CVs of 50 resources should be submitted.
3.	Pg No.11 Clause No. 2.3 Eligibility Criteria - SI No.6	The Lead Partner / bidder should have undertaken at least 2 (1 crore each – single order) large scale	GIS projects are generally turn key in nature and are of longer execution period followed by long team O&M	Refer Corrigendum I

		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 .	phases. Hence, it is requested to allow the project completed without any cap of nos of years.	
4.	Pg No.11 Clause No. 2.3 Eligibility Criteria-SI No.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.	GIS projects are generally turn key in nature and are of longer execution period followed by long team O&M phases. Hence, it is requested to allow the project completed without any cap of nos of years.	Refer Corrigendum I
5.	Pg No.11 Clause No. 2.3 Eligibility Criteria-SI No.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.	GIS projects are generally turn key in nature and are of longer execution period followed by long team O&M phases. Hence, it is requested to allow the project completed without any cap of nos of years.	Refer Corrigendum I
6.	Pg.15, Clause No.2.13 Documents comprising the bid. SI NO. 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.	1. Request to amend as " <b>The bid Processing fee</b> of Rs. 15000/- (Rupees Fifteen Thousand Only) in the form of <b>Demand Darft</b> and <b>bid security</b> of Rs. 75,00,000/- (Rupees Seventy five lacs Only) in the form of <b>Bank Gaurantee</b> are to be submitted physical favoring of Gujarat Informatics Ltd, Gandhinagar. 2. Request to add following clause in line with the guidelines of Government of India: "EMD payment is exempted for Micro and Small Enterprises (MSE) who are registered with NSIC( National Small scale instrties corporations) on the date of tender submission. Copy of valid NSIC Certificate for MSEs has to be submitted along with the bid."	1. <b>The bid Processing fee</b> of Rs. 15000/- (Rupees Fifteen Thousand Only) in the form of <b>Demand Darft</b> and <b>bid security</b> of Rs. 75,00,000/- (Rupees Seventy five lacs Only) in the form of <b>Bank Guarantee/ DD</b> are to be submitted physical favouring of Gujarat Informatics Ltd, Gandhinagar 2. No Change. As per RFP
7.	Pg No.23, Claus No.2.26 Methodology & Criteria for Technical, Commercial and final evaluation, SI No. 9 (D) - Bidder	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	GIS projects are generally turn key in nature and are of longer execution period followed by long team O&M phases. Hence, it is requested to allow the project completed without any cap of nos of years.	Refer Corrigendum I

	Competence Item No.2	No of project >2 <=4 --- 3 Marks No of project >4 ---5 Marks		
8.	Pg No.23, Claus No.2.26 Methodology & Criteria for Technical, Commercial and final evaluation, SI No. 9 (D) - Bidder Competence Item No.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 No of projects >=2 – <=4 -- 3 marks No of Project >=5 – 5 Marks	GIS projects are generally turn key in nature and are of longer execution period followed by long team O&M phases. Hence, it is requested to allow the project completed without any cap of nos of years.	Refer Corrigendum I
9.	Pg No.23, Claus No.2.26 Methodology & Criteria for Technical, Commercial and final evaluation, SI No. 9 (D) - Bidder Competence Item No.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 No of projects >=2 – <=4 -- 3 marks No of Project >=5 – 5 Marks	We request you to kindly consider project value of 75 L and above for these project.	No Change. As per RFP
10.	Pg No.31, Clause No.4.2.1-Design of Enterprise GIS architecture to meet the requirements of CGM	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	As we understand there are more than 10,000 leases hence, nos of lease holders who would access this portal would be very high compared to the nos considered here. This portal can have many more nos of accesses as other stakeholders, hence overall user count can be very high over a period of 8 years. As such the ask is for web-based solution, users count should not have any kind of restriction even in form of view, editing etc. As a best practice sizing is done on maximum nos of users unlike minimum nos mentioned here. Hence, we suggest to amend the nos of users of all type to <b><u>UNLIMITED to safeguard the interest of CGM.</u></b>	Refer Corrigendum I
11.	Pg No.34 & 35. Clause No. 4.2.9- GIS Data Preparation, SI No.8 &9.	8. Power lines (High/Low) Line -Cadastral map/ Satellite imagery / Toposheet-Type of each line,Length 9.Telephone line Line- Cadastral map/ Satellite Imagery / Topo sheets-Type of line	As type of line will not be visible in satellite imagery, it would not be possible to create this layer without actual ground survey. Since ground survey of these data across the state is a mammoth task and may not be that important for CGM. Hence we request to clarify the need of this layer appropriately.	The layers are to be drawn using the different sources as mentioned against it. If it is not visible from these sources, no field survey is required.
12.	Pg No.40, Claus No. 4.2.11-Department	The above mentioned functionalities are just an indicative list additional	Since this clause can even be interpreted as development of entire e-auctioning system. As from the	CGM already has an e-Auctioning system. The functionalities

	Module - SI No.1 - Exploration and e-Auctioning Module.	functionalities will get added based on department requirements.	RFP it is not clear that CGM is having existing e-Auctioning application or not, it is more prudent to clarify whether e-Auction system is part of scope or only the functions relevant to GIS domain needs to be developed and integrated with third party e-Auctioning system. In case it has to be developed, an elaborated scope should be mentioned.	mentioned in the section 4.2.11 "Exploration & e-Auctioning module" is requirement of GIS based application that will help the e-Auctioning.
13.	Pg No.41, Clause No.4.2.12- Integration with existing CGM systems and Applications.	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).	As we understand there are more than 10,000 leases hence, nos of lease holders who would access through ILMS may be very high compared to the nos considered here. Overall user count can be very high over a period of 8 years. As such the ask is for web based solution, users count should not have any kind of restriction. Hence we suggest to amend the nos of users of all type to <b><u>UNLIMITED to safeguard the interest of CGM.</u></b>	As above. Refer query no. 10
14.	Pg No.47 Clause No.4.2.16.1 - Data Management	For the data entered during the Base Map Creation/Update, 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.	1. Who would be responsible for procuring satellite imagery during O&M phase of 8 years? 2. What would be the frequency for procuring satellite imagery? 3. What would be the frequency of GIS based field survey for collection of spatial and non-spatial attributes. Kindly clarify.	1. CGM will be procuring the satellite imagery during the O&M phase. 2. To be finalised once the vendor is on board and in the post implementation stage. 3. GIS based field survey to be carried out once as mentioned in the initial scope.
15.	Pg No. 49 Clause No. 4.2.17- Minimum Qualifications & Experience for key Resources Minimum Qualifications & Experience for key Resources	Minimum Qualification	We suggest to add Masters in Geomatics as well as allowed qualification for all the categories of manpower asked.	We have given minimum requirements for both phases. However, bidder is free to propose equivalent or better resources.
16.	Pg No. 52 Clause No.5 .SECTION V – WORK	Maintenance & Support of the GIS Solution & other	Since maintenance & support is for 8 years, total nos. of quarters should be 32 post go live date here.	Yes. Maintenance & Support of the GIS Solution & other

	COMPLETION & PAYMENT TERMS- Sr No.12	infrastructure -Equal % of Operational cost as per section 11.3 of this document for 20 quarters post go live date.		infrastructure -Equal % of Operational cost as per section 11.3 of this document for <b>32 quarters post go live date.</b>
17.	Pg No. 105 Clause No. 9.21 TQ_7: GIS Platform Compliance Matrix		<p>As functions of CGM also includes prevention of illegal mining, encroachment, forest area/plantation analysis, it is prudent to use this system as well to monitor, analyse, act and control this activities. Using image processing components like change detection, change classification, volumetric analysis using satellite imagery etc. would be very helpful in extracting the maximum value out implementation of this project. Hence, we request to add under mentions functionalities to the GIS platform, which would make overall solution more comprehensive with little or no additional investment to CGM.</p> <ol style="list-style-type: none"> <li>1. It should have Image Processing based change detection for mining using two different satellite imagery.</li> <li>2. It should have Layer stacking to create composite image from a number of band of the satellite imageries.</li> <li>3. The software should have image enhancement module to enhance the imageries. It should have enhancement algorithm such as Linear, Logarithmic, Histogram Equalize, Histogram Matching, Density Slice, Gaussian, Squire root, Tone Balancing for Mine Change Detection.</li> <li>4. The software should have image transformation module such Vegetation Index, Principal Component Analysis (PCA), Inverse PCA, Pan sharpening, Wavelet fusion, etc. for Forest and Plantation Analysis.</li> <li>5. Proposed software should have image classification modules such as supervised and unsupervised classification along with image segmentation.</li> </ol>	No change. As per RFP.

			<p>6. The software should be capable to process the temporal or time series image data. The software should provide change detection module such as: Basic Change Detection Advance Change Detection Auto Change Detection.</p> <p>7. The advance change detection module should be capable to ingest multiple input images to find the change. It also handles the multi resolution satellite image along with mis-registration. It should supports various methods of advance change detection such as single band differencing, cross correlation, Image regression, Image ratioing, PCA, Change Vector Analysis (CVA), Magnitude Differencing, Vegetation Index Differencing, Tasseled Cap, Chi-Square, Unsupervised Change Detection, etc.</p>	
18.	Page No. 11, Sec. 2.3	Eligibility Criteria - 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	As the annual audit finalization for FY 2017-18 is in progress, we therefore request to consider provisional P&L & balance sheet statement for FY 2017-18. Please consider.	Yes. Provisional P&L & balance sheet statement for FY 2017-18 will be considered.
19.	Page No. 12, Sec. 2.3	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.	We seek details on no possible locations for deployment of resources during project and maintenance phase. Please confirm.	Team will be deputed at Central location at CGM office from where they can assist District Geologists.
20.	Page no. 27, Sec 2.37	2.37. Binding Clause - As per the provision in Electronics & IT/ITeS Start-up Policy Resolution No.	We understand that clause is only applicable in case of availability of eligible start-up/Student body.	Yes.

		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		
21.	Page No. 31 Sec. 4.2.1	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.	Please specify, how many department & department users will perform data editing using GIS desktop software	Three (3) Divisions i.e. Exploration, Administration and Enforcement
22.	Page No. 31 Sec. 4.2.1	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.	Please clarify, "Servers that will be provided by CGM" are these servers are other than Cloud hosting service provider servers or the same	No. Servers refer to the setup on cloud. Bidder is required to install and manage OS licences, Database & other system software on the cloud.
23.	Page No. 31 Sec. 4.2.1	The sizing can be done based on the functionalities and users details provided. The details provided in the	Please suggest tentative Data Size and incremental rate for more accurate sizing	Data sizing is to be carried out by bidder based on the inputs and requirements provided in the RFP.

		RFP are indicative and may change as per CGM's requirement.		
24.	Page No. 38 Sec. 4.2.11(3)	Workflow Designer	Please clarify, Workflow designer functionality requires on desktop environment or web base enterprise application environment	It should be on web-based environment.
25.	Page No. 40 sec. 4.2.12	Integration with existing CGM systems and application: CGM already has and is in process of developing new IT systems like (1) Command & Control Centre for monitoring of Check posts, weighbridges and mineral, (2) carrying vehicles, (3) Integration vehicle tracking and monitoring system, (4) Integrated Lease Management System (both current and upcoming upgraded ILMS), (5) Mining Surveillance system, (6) Geo-Mine, (7) ERP	Please Clarify, These applications are retrieving & storing data from centralize database or each having their own database servers and which database server is being used currently by CGM	Currently all these applications are under development and bidder will be provided with more details once the bidder is on board.
26.	Page No. 33 sec 4.2.7	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.	We Understand that CGM will provide Survey of India Topographic sheets for digitization, if yes. Please suggest scale of Map, that shall be required for digitization.	Yes, CGM will provide survey of India toposheets with scales of 1:25K, 1:50K.
27.	Page No. 33 sec 4.2.7	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.	We understand that cadastral map mine lease areas in respective places are to digitized as part of current scope. Please confirm.	Yes
28.	Page 31, Sec 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	Since satellite Imagery are to be sources from NRSC, any delay on part of NRSC in supplying required imagery data shall be discounted in the overall project time line and the SI shall not be held responsible for the same. Please confirm.	Yes



		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.		
29.	Page 32, Sec 4.2.3	The Bidder/SI shall then take sufficient number of Ground Control Points (GCPs) collected through Differential Global Positioning System (DGPS) survey.	Please confirm if these GCP are to referred with respect to Sol Control Points or any other Mining department reference points. Also please suggest count of GCP's/GCP grid If required.	Bidder will have to take GCPs based on the area.
30.	Page 32, Sec 4.2.3	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 <b>(Room of 10 X15 Sq Feet)</b> , 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.	Given the project timelines we seek approval to carry out digitization /data building and related activities at SI own offices. Please consider.	No change. As per RFP.
31.	Page 32, Sec 4.2.4	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 user proper tools to create the data model. The final data model shall be approved by the CGM and before	We seek suggestion on Data model, with reference to Policy/System/Practices prevailing at National Level or any other state.	No change. As per RFP

		proceeding further the data model needs to be finalized.		
32.	Page 32, Sec 4.2.4	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	As per IBM circular No. N/110913-3-MP-90-CCOM-V-VII dated 6/4/2010, the lease boundary pillar are to established at interval of 50 meters. Also the design of corner pillar & intermediate pillar vary. Establishing boundary pillar post identification is time consuming work we therefore request to omit civil work of construction from current scope. Please consider.	There is no civil work in the Scope of this RPF
33.	Page 44 & 45, Sec 4.2.15	4.2.15. Data and Facilitation scope of Bidder	We request for detailed inputs on district wise mine area., to estimate effort for boundary establishment & DGPS survey.	No Change
34.	Page 32, Sec 4.2.4	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	We understand that comprehensive support shall be provided by department for support from Revenue Department & District administration, during field survey.	Tenderer will assist bidder as and when required like writing letters to other department for support/permissions etc. however, ultimate responsibility is of bidder only..
35.	Page 33, Sec 4.2.8	4.2.8. Existing Database Preparation (D) Development of Layer Wise information of existing leases as well as Mineral bearing area of Gujarat state. - 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	We seek details on input available from Department for incorporating these details.	No Change. As per RFP.
36.	Page 47, Sec 4.2.16.1	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	During the maintenance phase (8 years) bidder shall only be doing updation of base map from Satellite Imagery updation. All other data set shall be created & maintained by Mining Department & associated staff. Please confirm.	Yes.

		<p>Cleansing, etc).....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</p>	<p>Also there shall be no scope of field survey during the maintenance phase. Please suggest.</p>	
37.	Page 51, Sec V	<p>5. SECTION V – WORK COMPLETION &amp; PAYMENT TERMS - 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.</p>	<p>We request to consider district wise payment for data creation to support field operations and prevent threat of time delay in specific areas (if any due to field conditions). There by ensuring that over-all work &amp; cash flow is not impacted. Please consider.</p>	<p>No change. As per RFP</p>
38.	Section 2.3 Eligibility Criteria, Point No. 6, Page No. 11	<p>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 .</p>	<p>We understand that the proposed GIS platform means the GIS platform that we have already implemented in our past GIS project experience</p>	<p>Refer Corrigendum I</p>
39.	9.21. TQ_7: GIS Platform Compliance Matrix, Page No. 105		<p>As per our understanding of the project there are certain other points where in the proposed platform should have the capabilities and should comply as per the</p>	<p>No change. As per RFP</p>

			CGM's requirements. Addition of the below functionalities will not only serve the CGM's purpose of GIS but it will also serve as a single platform for other mining activities too.	
			Please find the points as follows :-	
40.			GIS system will facilitate to Update of geo- scientific data in digital form to ascertain the suitability of the block of the land for mineral extraction based upon the ongoing or completed exploration / prospecting work as per other mandatory or scientific requirements.	No change. As per RFP
41.			GIS system should have capable to integrate with Mineral Concession Application Processing Module of CGM Department	No change. As per RFP
42.			The online scrutiny of mineral concession applications supported by GIS system displays the overlapping positions with previously held areas in real time	No change. As per RFP
43.			The GIS system will facilitate-  Updation of digital data of geo-scientific exploration and prospecting, effective geology survey, mines allocation, lessee management, mining monitoring, inspection, vigilance of different type of mining leases, prevention of illegal mining, issue of permits / licenses, address grievances of lessees, etc.	No change. As per RFP
44.			The GIS system will facilitate-  Availability of scheme details and eligibility criteria for prospecting, major / minor minerals registers with updated information, GIS layout of the mining leases, schemes, plans, geo-scientific data, etc., statistical and graphical reports on functioning of the CGM Department	No change. As per RFP
45.			The GIS system will facilitate to plot all the check posts, district offices as well as Mines boundaries on the Digital map based on latitude & longitude and relevant information of Lessee/Licensee.	No change. As per RFP
46.			GIS system should able to generate thematic reporting State, mining circle, district, Block, village as well as mines wise. Different reports will be generated on base map. The reports will be linked to MIS reporting system	No change. As per RFP

			based on these data MIS and GIS reports which will also be presented with tables and graphs.	
47.			GIS system should able to generate maps of Mining leases/ Prospecting license/ Quarry License/ Reconnaissance Permit/Geo scientific maps	No change. As per RFP
48.	Section 2.26, C. People	Quality of Manpower evaluation	In the clause it is mentioned that the quality of each manpower would be tested and accordingly the marks would be given. Can you please clarify how the quality of the manpower would be evaluated and on what basis marks would be assigned?	CGM may ask for interviews of the proposed resources.
49.			Please clarify the estimated cost of project	No change. As per RFP
50.			Please reduce EMD amount and performance bank guarantee	No change. As per RFP
51.			Please split the work in two part	No change. As per RFP
52.			Please reduce required turnover amount	No change. As per RFP
53.			Please reduce the amount of large scale successful GIS project implementation for the proposed GIS platform in last 3 years as on bid issuance date from 1 cr to 75 lakhs.	No change. As per RFP
54.	4.1. Objectives, Page 30	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.	Kindly confirm if there is requirement in mobile application to work in online & offline synchronization mode for updates from field.	No change. As per RFP
55.	4.1. Objectives, Page 30	Locate, Track & Evaluate Assets with GIS combined with GPS technologies.	Kindly clarify, what kind of functionalities would require for Locate, Track & Evaluate Assets. Is department is looking for on filed integration with GPS with functionality to cached maps in terms of disconnected environment for further updating of lease land.	CGM already has developed a GPS based vehicle tracking application, the GIS map shall be integrated in the same application for viewing the vehicle locations.
56.	4.2. Scope of Work for Design, Develop & Maintain Enterprise GIS, Page 30	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.	We understand this to be inclusive of COTS GIS Platform up-gradation from the OEM. Kindly confirm.	Yes, If the bidder proposes a COTS platform.

57.	4.2.2. Supply & installation of Infrastructure & GIS Platform for creation, storage and maintenance of geospatial data, Page 31	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.	Kindly confirm if there is already a specific cloud environment available with the department? Or SI/OEM are free to choose any market standard commercial cloud platform.	Department has a cloud environment setup by Gujarat State Data Centre. The bidder shall not use / propose any other cloud platform.
58.	4.2.3. Procurement of Satellite Imagery, Page 31-32	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.	Now a day various State/Central government agency, are using a base map available in public domain (world imagery in natural color, Imagery with Labels, Free street map, Topographic Map) services as a reference along with the original created Base Map. We recommend CGM consider these functionalities to Leverage the power of these available base map services as an additional benefit.	No Change. As per the RFP
59.	4.2.12. Integration with existing CGM systems and application, Page 40	<ul style="list-style-type: none"> <li>• Command &amp; Control Centre for monitoring of Check posts, weighbridges and mineral carrying vehicles</li> <li>• Integration vehicle tracking and monitoring system</li> <li>• Integrated Lease Management System (both current and upcoming upgraded ILMS)</li> <li>• Mining Surveillance system</li> <li>• Geo-Mine</li> <li>• ERP</li> </ul>	Kindly provide the details about all the existing application available with the department, also provide the details services/APIs etc. for Integration scenarios. We Understand that the department already has GIS/Map based Integrated vehicle tracking and monitoring system to track and monitor, Requesting you Kindly clarify the What kind of further integration would require with VTMS? Is department would like to share OGC Services/REST Services/APIs/Stream feeds from Devices. Any Analysis?	Currently all these applications are under development and bidder will be provided with more details once the bidder is on board. GIS based Command control software set up with this project will serve as the single software for all the activities of CGM. All the software proposed by the bidder has be integrated with the same through API for showing all the information/alerts/notifications etc on the screen of CCC software.
60.	6.2. Interpretations, Page 54	Minimum uptime for the entire IT infrastructure along with the software application and solutions is 99.9%.	We understand that integrated Enterprise GIS solution SLA is also required to be in the same line with >=99%. Please confirm.	Yes.
61.	9.21. TQ_7: GIS Platform Compliance Matrix, Page 106	35. The software should have capabilities to create hotspot, density and interpolation	Kindly provide the use cases for density and interpolation tool for mining lease management as we understand that this tool would not be required, Please confirm.	To be provided once the bidder on board
62.	9.21. TQ_7: GIS Platform Compliance Matrix, Page 106	41. The software should have tools and options like raster management, conversion tools, proximity, analysis, packaging,	The Geometric Network tool-set contains tools to create, manage, and run trace tasks on geometric networks. Normally used to represent and model the behaviour of a common network infrastructure such as	No change. As per RFP

		spatial statistics, geometric network tools, data indexing etc	Water distribution, electrical lines, gas pipelines, telephone services, and water flow in a stream, Road network. Is the department looking for such kind of functionalities or for coordinate geometry to maintain lease land parcel? Kindly confirm.	
63.		General	We recommend CGM to consider these advance GIS Functionalities during Application Development: support dynamic legend bar for all the GIS layers with various scale setting options, Option to show the layers with blink or highlight during query.	No change. As per RFP
64.		General	Suggestion: The 3D web GIS interface would be helpful in better understanding of 3D terrain of Mine area. The surface profile graph application also represents the topography of Hilly saurashtra and rough terrain of northeast region of Gujarat. We recommend CGM to consider these advance GIS Application functionalities.	No change. As per RFP
65.	6.7; Response Time Performance Criteria; Pg 57	Support service shall be available 24 * 7	We understand 24*7 support is required from Bidder. Kindly confirm.	Yes
66.	2.3. Eligibility Criteria	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	Kindly share the RFP format for Non Blacklisting	It is covered in the Affidavit Section 9.28 of the RFP.
67.	4.2.6. Mapping of exploration and mineral bearing areas, Page 33	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.	We understand that CGM is also thinking of enterprise GIS function for exploration department, where various 3D analysis like borehole detail, Surface Volumes, Geophysical data, Elevation model, Surface profiles, Kriging method for geostatistical analysis, Fracture/Lineament Density, Dip and Strike Calculation can be done with enterprise GIS . Also, we all know that major mining region in Gujarat is a mostly Hilly terrain (sourashtra and northeast region of Gujarat). Kindly confirm if department looking for such kind of 3D functions for exploration department?	No change. As per RFP
68.	4.2.6. Mapping of exploration and	The exploration department within the Office of the CGM has the function to	We understand that CGM is looking for an enterprise GIS solution for entire mining life cycle and related activities.	No Change

	mineral bearing areas, Page 33	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.	In this RFP department already asked DGPS survey, Mapping of exploration and mineral bearing areas, Mapping / Digitization of cadastral maps, land-use land-cover using cadastral maps & topo sheets, etc. By using the same techniques and the DEM model department also can achieve the following goals for Web based Exploration Analysis Modules: 1) Analysis and distribution pattern of exploration data with interpolation method. 2) 3D Display and analysis of borehole drilling data. 3) 3D Elevation surfaces profile on 2D lease land/ entire mine area. 4) Geostatistical analysis for Fracture/Lineament Density, Dip and Strike Calculation throughout the mining area. Kindly clarify, if department looking for above mentioned modules, It will help Master System Integrator to estimate the development effort and cost.	
69.	4.2.11. Design & Development of Enterprise GIS application for CGM, Page number 39	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.	We wants to understand that What will be the total number of mobile user would require? How many users simultaneously edit from the field? This will help to design the Enterprise Solution for MSI.	No Change
70.	9.21. TQ_7: GIS Platform Compliance Matrix	15 Facility to capture the geometry from the layout maps, by maintaining the coincident geometry i.e. when a new	We understand that the department putted General GIS Criteria in GIS Platform Compliance to manage the land parcels of the lease. The department might be aware	No Change



		<p>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.</p>	<p>that nowadays all the standard GIS platform has the following capabilities to maintain the data granularity and accuracy for land parcel management.</p> <ol style="list-style-type: none"> <li>1) A parcel fabric techniques to stores a continuous surface of connected land parcels or land parcel network with Adjustment.</li> <li>2) A GIS topology is a set of rules and behaviours that model how points, lines, and polygons share coincident geometry.</li> <li>3) Spatial adjustment tools is also important for edge match of a Land parcel, Land parcel attribute (information) transfer.</li> <li>4) Coordinate geometry is one of the most important tool for land parcel management. This helps in creating and managing measures for each segment of feature boundary as in Field Measurement Books. Kindly confirm if the department is looking for above mentioned modules to maintain the data granularity and accuracy of land parcels.</li> </ol>	
71.		Open standard GIS solution	<p>An Open standard GIS solution maintains the following standard.</p> <p>ISO 6709:2008:Standard representation of geographic point location by coordinates</p> <p>ISO 19101:2002:Geographic information -- Reference model</p> <p>ISO 19103:2005:Geographic information -- Conceptual schema language</p> <p>ISO 19107:2003:Geographic information -- Spatial schema</p> <p>ISO 19115:2003:Geographic information -- Metadata</p> <p>ISO 19109:2005:Geographic information -- Rules for application schema</p> <p>19113:2002:Geographic information -- Quality principles</p> <p>ISO 19157:Geographic information -- Data quality</p> <p>Hope CGM also considers all the mentioned Open and Interoperable Geospatial Standards. Kindly confirm.</p>	No Change
72.	Clause 2.3 in Page 11	4.The Lead Partner / Bidder must have	We are an innovative IT system integrator and operational since Sep' 2014. We are a registered MSME	No Change. As per RFP

			company and we have a positive network. However, for the DGPS survey works, we have a reputed Infrastructure partner who has delivered GIS based surveys for all infrastructure related projects in India and can qualify in Revenue criteria. Being a consortium, we would like to point out that the qualification criteria of having INR 40 Cr revenues in the last 3 years from IT /ITES is really tough for MSME start-ups. Similarly, the revenue of INR 15 Cr from GIS related projects including IT implementation will also be a daunting task. We would like to request to relax this norms to be fair and competitive in this Bidding. Our average annual turnover is INR 6 Cr and we feel that we have the capability to execute the project of this magnitude based on our current assignments. Please consider this.	
73.	Clause 2.3 in Page 11	5.The Lead Partner / Consortium partner	Are we required to submit 100 CVs while submitting the bid? Else , an undertaking from the Bidder's letterhead assuring the required resources is sufficient?	As above. Clarification of query no. 2.
74.	Clause 2.3 in Page 11	7.The bidder (lead bidder/ consortium member, in case of consortium)	We have delivered innovative solutions in GIS domain and been mentioned in NITI Aayog's Composite Water Index Report. We would like to request to relax this norm of having delivered at least one project in Mining/Geology; however, we have delivered GIS based projects for SURface Water & Groundwater department in Andhra Pradesh. Can this be considered for Geology experience?	No Change. As per RFP
75.	Section 2.3 Eligibility Criteria, Poin No. 4, Page No. 11	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.	We believe that the clause means that - <b>The Lead Partner / bidder must have annual turnover of INR 40 Crores for each of the last three financial years as on 31st March 2018</b> (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. Kindly Confirm.	No Change. As per RFP

76.	Section 2.3 Eligibility Criteria, Point No. 5, Page No. 11	<b>Eligibility Criteria</b> - The Lead Partner / Consortium partner should have at least 50 permanent resources working for GIS based services including GIS based development. <b>Attachments</b> - Certificate from the Auditor / Company Secretary / Head HR; CVs of at least 100 resources as per the format given in this RFP.	Under Eligibility Criteria 50 Permanent Resources working for GIS based services are required whereas under Attachments, CVs of at least 100 resources are required. Since both of these statements are contradictory, so kindly clarify how many CVs are required in total?	As above. Clarification of query no. 2.
77.	Section 2.3 Eligibility Criteria, Point No. 9, Page No. 12	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)	As per our understanding, the application has to be hosted on SDC Servers so the bidder's certification for ISO 27001:2005 is not required.  Hence we suggest you to kindly remove ISO 27001:2005 Certification from the clause.	Refer Corrigendum I
78.	Form 9.8 PQ_6 Undertaking for Technically Qualified Full-time Professionals on Company's Payroll, Page No. 80	I hereby declare that my company <company's name> has <number > technically qualified professionals as on <b>31 August 2017</b> .	Total number of required manpower with the company should be counted till 31st August 2017 or 31st July 2018 ? Kindly Confirm.	Please read " <b>31 August 2017</b> " as <b>31 August 2018</b> ".
79.	Section 4.2.5. Survey of existing leases (major and minor) using DGPS, Page No.32	Survey of all the lease boundary pillars by using DGPS and fix up its ground position and preparation of Geo – reference plan	Will the department officials demarcate the boundary pillar? Kindly clarify	Department officials will help locating the boundary pillar.
80.	Section 4.2.5. Survey of existing leases (major and minor) using DGPS, Page No.33	The boundary pillar shall be fixed on ground with reference to at least three permanent ground features in and around mining lease.	Will the bidder have to erect the boundary pillar? If yes, would the specification be as per IBM circular?	No. No erection of boundary pillars is required.
81.	4.2.13.2. Training, Page No. 42		We understand that the batch size should not exceed 25. Kindly let us know the tentative number of trainees.	25-30
82.	2.13. Documents Comprising the Bid, Point 2 (2.2), Page No. 15	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	We believe that the clause should be read as follows - <b>The bid security of Rs. 15000/- (Rupees Fifteen Thousand Only) in the form of Demand Draft and bid processing fee of Rs. 75,00,000/- (Rupees Seventy five lacs Only) in the form of Bank Guarantee</b> are to be submitted physical favoring of Gujarat Informatics Ltd,	As above. Clarification of query no. 6.

		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.	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.	
83.	4.2.9 GIS Database Preparation, Page No. 35	Indicative Proposed GIS Layers & its attributes:  Admin Boundaries: Attribute Data-Type of mineral	As per our knowledge, Cadastral maps do not provide information on the type of mineral. What data source shall be used for the same.  Kindly clarify.	CGM has lease plans and exploration maps in physical as well scanned format. The same will the mineral details.
84.	4.2.2. Supply & installation of Infrastructure & GIS Platform for creation, storage and maintenance of geospatial data, Page No. 31	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.	We understand that the supply of servers are not to be done by the bidder.  Please clarify	Yes
85.	4.2.3. Procurement of Satellite Imagery	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.	We understand that the bidder is required to bring the licenses required for this activity too.	Yes
86.	Section 2.26, D. Bidders’ Competence, Page No. 23	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 No of projects >=2 – <=4 -- 3 marks No of Project >=5 – 5 Marks	Kindly revise this clause as follows - The bidder/lead bidder should have undertaken at least 2 successful Government 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 Government GIS projects = 2 --2 marks No of Govt. or Non Govt. GIS Projects > 2 – <=4 -- 3 marks No of Govt. or Non Govt. GIS Projects >=5 -- 5 marks	No Change. As per RFP

87.	4.2. Scope of Work for Design, Develop & Maintain Enterprise GIS Page no. 30	IBM Circular No. N/110913-3-MP-90-CCOM-V-VII dated 6/4/2010.	Please provide the same or share the link from where it can be downloaded	No Change. As per RFP
88.	4.1. Objectives Page no. 30	Locate, Track & Evaluate Assets with GIS combined with GPS technologies	what are the CGM assets- How many are there /sqkm to be surveyed	No Change. As per RFP
89.	4.2.7. Mapping / Digitisation of cadastral maps, land-use land-cover using cadastral maps & Topographic sheets Page no. 33	The hard copy of the cadastral maps and the topographic sheets will be provided to the selected bidder by CGM.	What are the numbers of maps /documents to be scanned and Digitised and their categories- please provide the sample	This has already mentioned in the scope section 4.2.6
90.	4.2.7. Mapping / Digitisation of cadastral maps, land-use land-cover using cadastral maps & Topographic sheets Page no. 33	The hard copy of the cadastral maps and the topographic sheets will be provided to the selected bidder by CGM.	What are the type of cadastral Maps, toposheets, Geological Maps, Lease Maps or other Maps to be scanned and Digitised and their scale	<b>Query not clear.</b>
91.	4.2.7. Mapping / Digitisation of cadastral maps, land-use land-cover using cadastral maps & Topographic sheets Page no. 33	The hard copy of the cadastral maps and the topographic sheets will be provided to the selected bidder by CGM.	what are the features need to be captured from these toposheets and other maps	All important feature that are relevant to CGM and exploration maps need to be captured from these toposheets and other maps.
92.	4.2.3. Procurement of Satellite Imagery Page no. 31	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 Bidder/SI shall prepare a Grid of 1Km x 1Km for positioning CGM assets with respect to its Geographic Location.	We understand that scene wise fusion is expected by us of cartosat and LISS-IV data whether Mosaicing and tiling of the satellite image is part of scope	Yes

93.	4.2.7. (B) Database Preparation: a. Data Collection (New) Page no. 33	The boundary pillar shall be fixed on ground with reference to at least three permanent ground features in and around mining lease.	Specifications of the Pillars and their measurement duration and accuracy requirements	Pillar location is to be identified, No boundary pillar erection is required
94.	4.2.7. (B) Database Preparation: a. Data Collection (New) Page no. 33	The boundary pillar shall be fixed on ground with reference to at least three permanent ground features in and around mining lease.	Accuracy expectation of DGPS readings and Duration at different assets	No Change. As per RFP
95.	4.2.8. (D) Development of Layer Wise information of existing leases as well as Mineral bearing area of Gujarat state. Page no. 34	Cartographical map with appropriate legend & attributes displayed with important attributes.	Please provide the list of attributes and other GIS requirements	Attributes will be extracted during the data modelling process as mentioned in section 4.2.4
96.	4.2.12. Integration with existing CGM systems and application Page no. 40	Implement an integrated MIS-GIS Web application for monitoring, managing and analysis of field surveyed data, fetching data from existing ILMS system.	What is the expectations for MIS- what analysis is expected	To be finalised during the detailed functional requirement stage
97.	4.2.12. Integration with existing CGM systems and application Page no. 40	Integrated Lease Management System (both current and upcoming upgraded ILMS)	Existing ILMS database-Please give its link for understanding	No Change
98.	4.2.12. Integration with existing CGM systems and application Page no. 40	It shall have Bi-lingual (i.e. English & Gujarati) interface. ü Web GIS Requirements	Please keep in English only	No Change. As per RFP
99.	4.2.5. Survey of existing leases (major and minor) using DGPS Page no. 32	Survey of all the lease boundary pillars by using DGPS ( At least 2 hours observation )and fix up its ground position and preparation of Geo – reference plan	it seems that Lease boundary Pillar loaction is marked in the Maps and it has to be fixed while survey. Any monumentation is also required for these pillars?	No Monument is required

100.	4.2.3. Procurement of Satellite Imagery Page no. 31	(E) Purchase of latest high resolution Satellite data (cloud free) 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) covering an area of 500 m periphery from the lease boundary from NRSC and the Geo-referenced lease map shall be super imposed on high resolution satellite image.	The Output required is of the scale of in 1:1,000/1:2,000/1:5,000/1:10,000- these will be supported by World view -3 or 2 satellite data.  Please advise	No Change. As per RFP
101.	4.2.8 (B) Database Preparation Page no. 34	Legacy Data	How much is the size/amount of legacy data to be migrated and to be digitised freshly. Please suggest.	Already mentioned in section 4.2.6
102.	2.26. Bidders' Competence Page no. 23	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 Supporting Document Type: Clients' completion certification / letter	We request you to kindly amend the clause as under Client completion certificate/letter/CA Certificate	CA Certificate to be submitted.
103.	1.2. Last date and time for submission of eligibility & technical bids (online) and Financial bid online	Closing date of bids : 27.08.2018 upto 15.00 Hrs.	Pre-bid Meeting is going to held on 13th August 2018 and Pre-bid queries submission date is 07th August 2018. In view of the same, we request GIL kindly extend the bid submission timeline for 03 weeks' time from the date of publishing the pre-bid clarification.  Request to consider.	No change. As per RFP
104.	6.3 Penalty for delay in project execution Page no. 54	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	We request you to modify the clause as below: For any delay in the timelines mentioned in the RFP, CGM will charge penalty @ 0.1% of the corresponding milestone value for first two weeks and 0.5% for all the subsequent weeks or part thereof, subject to a maximum penalty cap of 5% of the respective component cost	No Change. As per RFP

105.	6.4. Penalty calculation Page no. 54	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.	We request you to modify the clause as below: 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 5% of quarterly payment. For Implementation phase penalties, the total penalties should not exceed 5% of the total Capex cost payable to SI.	No Change. As per RFP
106.	6.4. Penalty calculation Page no. 55	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.	We request you to modify the clause as below: Three consecutive quarterly deductions totaling to more than 15 % of the applicable payment for the corresponding quarter will be deemed to be a sufficient condition for termination.	No Change. As per RFP
107.	6.4. Penalty calculation Page no. 55	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.	We request you to remove this clause as this clause is against the terms and conditions of the contract.	No Change. As per RFP
108.	6.5. SLA for Survey and Map Creation Page no. 55	<b>DGPS ground control point accuracy</b> INR 5000/-for every inaccurate point and a resurvey. The penalty will be charged to a maximum of 10% of the DGPS survey milestone.	We request you to modify the clause as below: INR 1000/-for every inaccurate point and a resurvey. The penalty will be charged to a maximum of 5% of the DGPS survey milestone.	No Change. As per RFP
109.	6.5. SLA for Survey and Map Creation Page no. 55	<b>Map Digitization</b> 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.	We request you to modify the clause as below: INR 1000/- for every missed feature in the output map. The penalty will be charged to a maximum of 5% of the map creation milestone.	No Change. As per RFP
110.	6.6 SLA for Software Support Page no. 55	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.	We request you to modify the clause as below: 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. 500/- per day.	No Change. As per RFP
111.	6.6. SLA for Software Support Page no. 55-56	Type of Bug:- Critical bug / problem resolution time:- 2 Hours Penalty Amount:- Rs. 2000/- (per hour)	Requesting to modify the Penalty Amount: Penalty Amount:- Rs. 1000/- (per hour)	No Change. As per RFP



112.		1 hour if the bug / problem has reoccurred within 7 days of the earlier resolution Rs. 2000/- per hour beyond 8 hours Rs. 4000/- per hour beyond 24 hours	Requesting to modify the Penalty Amount: Rs. 1000/- per hour beyond 8 hours Rs. 2000/- per hour beyond 24 hours	No Change. As per RFP
113.		Type of Bug:- 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	Requesting to modify the Penalty Amount: 3 working days: Rs. 100/- (per day) 1 working day if the bug / problem has re-occurred within 15 days of the earlier resolution Rs. 1000/- per day beyond 7 days Rs. 1000/- per day beyond 10 days	No Change. As per RFP
114.	General Query	Changes to be incorporated	We request GIL to please incorporate all the changes in the final RFP document, so that there is no deviation in response document of the pre-bid queries and the final RFP  Please confirm	The clarifications as may be issued by GIL should be considered as part of RFP.
115.	General	General	Generic Generic Does the Application needs to have BI Lingular Capabilities?  If yes, kindly let us know the languages that need to be incorporated?	Refer section 4.2.12. English and Gujarati
116.	General and Special conditions of the contract	All SCC and GCC clauses	We request GIL to keep provision of contractual clause discussion (GCC & SCC) and change in any clause with mutual consent during negotiation and contract signing stages.  We request you to kindly confirm	No Change. As per RFP
117.	2.3. Eligibility Criteria Pg. No. 11	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 .	CGM is requested to consider and relax the criteria as under for wider participation:  “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	Refer corrigendum I

			project is completed) during last 10 years as on bid submission date”	
118.	2.3.Eligibility Criteria Pg. No. 11	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.	As geology is a part of various infrastructure projects, we request GIL to also consider GIS projects executed in other domains like Land, Asset mapping, Property/City/Township Planning, Irrigation, Road, Pipelines etc.	No Change. As per RFP
119.	D. Bidders' Competence Pg. No.23	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		NA
120.	2.3.Eligibility Criteria Pg. No.12	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)	We understand the requirement as  The Lead Partner should have a valid  Either  (1) CMMI Level 3 or higher Certification OR  (2) ISO 9001:2008 or Latest and ISO 27001:2005 certification for IT based infrastructure services  Please clarify/confirm.	1. Refer Corrigendum I
121.	4.2.10. Digitization and Map Preparation  Page No 37	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	Minimum mappable unit, accuracy registration error, coordinate movement for scale 1:2000 is of the order of 10 cm which is not possible to achieve using Cartosat -1/2 & LISS IV with resolution 1 m/2.5m – please clarify.	The accuracy requirement is for layers digitised from mining plan. The mining plan is developed using field survey and has higher accuracy.  The layers digitised from satellite imagery will be considered for accuracy based on the resolution of the image.

		<ul style="list-style-type: none"> <li>o Location accuracy in GIS – 1 -5 mm on scale</li> <li>o Minimum spatial unit in GIS- 2-5 mm on scale</li> <li>o Registration Error threshold in GIS- 0.25 - 5 mm on scale</li> <li>o Coordinate movement/weed tolerance-0.25 -5 mm on scale</li> </ul>		
122.	<p>4.2.3 Procurement of satellite imagery</p> <p>Page No 31, 32</p>	<p>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.</p>	<p>Bidder understand that all maps need to hosted in GIS server as soft copy. Hence scale may not be applicable to soft copy map deliverable – please clarify.</p>	<p>No Change. As per RFP</p>
123.	<p>4.2.Scope of Work for Design, Develop &amp; Maintain Enterprise GIS</p> <p>Pg.No. 30</p> <p>4.2.12. Integration with existing CGM systems and application</p> <p>Pg.No. 40</p>	<p>11. Integration with existing CGM systems and applications</p>	<p>What will be the mechanism for integration with existing system? Like using data/functionality exchange services, data base level etc.</p> <p>Please clarify</p>	<p>It can be through service, APIs, connectors etc.</p>
124.			<p>If integration will be by means of data/functionality exchange services then we understand that</p>	<p>1. Yes 2. Yes</p>

			<ol style="list-style-type: none"> <li>1. Bidder/SI will have to develop data/functionality exchange services in the proposed GIS system</li> <li>2. For existing systems such services will be made available to Bidder/SI for integration by respective SIs or CGM</li> </ol> <p>Please clarify /confirm</p>	
125.	<p>4.2.2. Supply &amp; installation of Infrastructure &amp; GIS Platform for creation, storage and maintenance of geospatial data <i>Pg.No.31</i></p> <p>&amp;</p> <p>9.27. List of Products/Solutions Which Requires MAF from OEMs <i>Pg.No.117</i></p>	General	<p>Please clarify the following:-</p> <ol style="list-style-type: none"> <li>1. We understand that there is no hardware supply involved as part of scope of work for this RFP</li> <li>2. Bidder/SI is required to provided sizing for server/hardware/network required for this project and CGM will do the procurement of required server/hardware/network infrastructure</li> <li>3. When hardware supply is not part of scope then why MAF for items like firewall, servers, storage, anti-virus, UPS etc. is being asked from Bidder</li> <li>4. Also advise how to submit MAF, in case open source GIS/RDBMS are proposed</li> </ol> <p>Please clarify/confirm</p>	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. Yes</li> <li>3. Refer corrigendum</li> <li>4. In case of open source, Bidder shall provide a declaration on providing the support for the platform for the tenure of the project. Refer Corrigendum</li> </ol>
126.	<p>4.2.2. Supply &amp; installation of Infrastructure &amp; GIS Platform for creation, storage and maintenance of geospatial data  <i>Pg.No.31</i></p>	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	<p>Please clarify the following</p> <ol style="list-style-type: none"> <li>1. Is bidder required to provided Operating systems (OS) licenses also?</li> <li>2. If yes, since OS licensing depends on server configuration- cores etc., is bidder required to include cost/licensing for OS as per the server sizing (to be provided with the proposal)?</li> <li>3. In addition, what if the final hardware/server procured/made available by CGM varies from the proposed sizing?</li> </ol>	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. Yes</li> <li>3. Based on the verification of sizing once the vendor is on board, licences shall be procured by the bidder.</li> </ol>

			Please clarify/confirm	
127.		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	Server/Hardware/Network can include may components right from desktop PC systems, to storage, servers, LAN/WAN, backups, firewall, balancers, anti-virus, DR provisioning etc.  Request to provide list of components for which sizing is to be provided.	Sizing for the entire solution is to be provided considering all components
128.	4.2.11. Design & Development of Enterprise GIS application for CGM  Pg.No.38	Dashboard: The basic dashboard will have GIS module links which will be added as a part of post implementations phase.	We understand that solution development in this project is a single phase activity, followed by support for 8 years including minor changes/customization, and not a phased activity  Please clarify/confirm	Yes
129.			Are GIS modules to be developed in phases i.e. Implementation & Post Implementation? Please clarify  If yes, then  1. Has CGM identified which modules/tools/functionalities are to be developed during implementation phase and which ones to be developed during post implementation phase  2. Please provide phase wise list of modules/tools/functionalities to be developed	No Change. As per RFP
130.	4.2.13.2. Training  Pg.No.42		Please provide details as to overall how many staff/officials will have to be trained. This is required for estimation purposes	This will be done in batches. Each batch shall have about 20-30 persons.
131.	5. SECTION V – WORK COMPLETION & PAYMENT TERMS	Equal % of Operational cost as per section 11.3 of this document for 20 quarters post go	We understand that no. of quarters will be 32	As above.

	Pg.No.52	live date	Please clarify/confirm	
132.	Page No 31,32 4.2.3 Procurement of satellite imagery	The high resolution Satellite data (cloud free) should be derived from merging of Carto sat – 2 (1m resolution) if not available then go for Carto sat –1 (2.5 Meter resolution)) and LISS-IV (5.6m resolution, IRS P6) for the state of Gujarat. ....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.	After merging Carto sat -2 /Carto sat -1(2.5 / 1 m) image with LISS (5 m) image, Pan sharpened image have resolution of 2.5 m/ 1 m. To prepare maps in 1:2000 scale, satellite image resolution of order of 0.5 m is required. Request to clarify the Largest scale of base map need to be prepared using satellite image?	As above. Clarification of query no. 117
133.	Page No 31,32 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 Carto sat – 2 (1m resolution if not available then go for Carto sat –1 (2.5 Meter resolution)) and LISS-IV (5.6m resolution, IRS P6) for the state of Gujarat.	Request to share Area of Interest Polygon (AOI) as shp/kml file for which satellite image needs to be procured or satellite image needs to be procured for entire Gujarat state?	No Change. As per RFP
134.	Page No 31,32 4.2.3 Procurement of satellite imagery	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	Bidder understands that Image Procurement, Geo referencing, Image Pan sharpening and other image processing task can be performed at bidder premise and after completing image processing preparation of base map needs to be carried out at client place?	No change. As per RFP.

		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		
135.	2.3.Eligibility Criteria Pg. No. 11	6.The Lead Partner / bidder should ..... 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. <b>The bidder have to provide letter from the client for completion of work of at least 1 Crore.</b>	In the absence of client letter regarding <b>completion of work of at least 1 Crore</b> , CGM is requested to consider <b>Certificate from the Chartered Accountant/Statutory Auditor</b> for the payment received from client against the project.	No Change
136.	2.3.Eligibility Criteria Pg. No. 11	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) <b>for the proposed GIS platform</b> during last 3 years as on bid submission date .	Since GIS platforms are evolving, clients tend to go for various innovative platforms from time to time as per project requirement. Hence we request CGM to consider experience of <b>at least one project in the proposed platform and remaining in any GIS platform</b> to encourage competition.	Refer Corrigendum I
137.	D. Bidders' Competence Sl.no.2 Pg. No.23	2. The bidder/lead bidder should have undertaken at least 2 (min 1 crore) large scale successful GIS project implementation <b>for the proposed GIS platform</b> in last 3 years as on bid issuance date.		Refer Corrigendum I
138.	9. The following criteria shall be used to evaluate the technical bids.  A. Proposed Solution	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	Marking based on <b>Column A, B &amp; C Coding</b> is not clear. Kindly provide <b>further break-up of basis of allocation of marking as per Column A, B &amp; C Coding (Y, N, F, P, W, A &amp; C)</b> to have better clarity for the bidders.	No Change

	GIS Platform Page no: 21	Meeting less than 50% of the specifications: 0		
139.	9.21. TQ_7: GIS Platform Compliance Matrix Page:105	<p><b>Column A Coding</b> 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.</p> <p><b>Column B Coding</b> 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.</p> <p><b>Column C Coding</b> 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</p>		No Change
140.	4.2.6. Mapping of exploration and mineral bearing areas Page: 33	<p>The department has more than <b>4900 scanned maps</b> for around 700 exploration related reports.</p> <p>The selected bidder needs to study the existing resources including maps and data etc. available with CGM and <b>convert it into geospatial format</b> and superimpose the same on the proposed base map. These maps include the exploration maps as well as exploration related reports. <b>The</b></p>	<ol style="list-style-type: none"> <li>1. We understand that bidders needs <b>digitize &amp; vectorize</b> these 4900 scanned maps. Kindly confirm.</li> <li>2. Kindly confirm the approx area of theses maps as to estimate the cost.</li> <li>3. Kindly inform the % of maps which are available in Vector format if any.</li> </ol>	<ol style="list-style-type: none"> <li>1. Yes</li> <li>2. Area varies from report to report.</li> <li>3. No data is available in vector format.</li> </ol>



		<b>exploration maps are in digital / scanned format.</b> The bidder is required to geo reference and <b>digitize all the maps.</b> The exploration maps either on Cadastral maps or on Toposheets.		
141.	Clause 4.2, Scope of Work for Design, Develop & Maintain Enterprise GIS Sl.No.4/page 30	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.	Request GIL-CGM to provide details of guidelines of IBM circular no N-11013/3/MP/90-CCOM dated 06/04/2010 for Procurement of Satellite Imagery	No Change
142.	Clause 4.2.2, Supply & installation of Infrastructure & GIS Platform for creation,storage and maintenance of geospatial data / page 31	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.	Kindly clarify whether the GIS solution will be hosted on private or public cloud environment	To be hosted on GoG owned private cloud at state data centre, Gandhinagar.
143.	Clause 4.2.7, Mapping / Digitisation of cadastral maps, land-use land-cover using cadastral maps & Topographic sheets / page 33	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.	All the digital vector cadastral maps are available with the revenue department, Govt. of Gujarat. We kindly request you to facilitate in supplying those digital cadastral maps to the vender for super imposed on the satellite imagery. Otherwise fresh digitization of the cadastral maps for the entire state of Gujarat is a separate project by itself.	Cadastral Map will be provided by CGM
144.	Clause 4.2.7, Mapping / Digitisation of cadastral maps, land-use land-cover using cadastral maps & Topographic sheets / page 33	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.	Kindly clarify whether all the topo sheets covering entire state of Gujarat will have to be vectorized, if yes, please suggest the necessity of the same. Because the vectorization of all the topo sheet features/layers for entire state of Gujarat it self is a separet project.	Topo sheets will be provided by CGM
145.	Clause 4.2.13.2, Training, Bullet Point no "6"/ page 42	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.	Kindly provide the details of venues and the total no. of CGM officials to be trained for this project along with the training duration.	Will be provided once the SI is on the board. However, we have asked the prices per batch.

146.	Clause 4.2.15, Data and Facilitation scope of Bidder / page 45 & 46	The areas of leases are measured in Hectors and mineral wise summed up as per below:	The area mentioned in the table is not clear. Kindly clarify the total mining area in Gujarat for the planning purpose. Also, provide the all the mining area extends in either *.DWG or *.Shp format	No Change. As per RFP
147.	Clause 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/ Page 23 & 24	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 No of projects >=2 – <=4 -- 3 marks No of Project >=5 – 5 Marks	Request to GIL-CGM to kindly revise the clause and consider for the below mentioned experience in Mining or Geology domain.  The bidder/lead bidder should have undertaken at least 1 successful GIS project (min. Value of Rs. 25 Lakhs) implementation in Mining or Geology domains in last 5 years as on bid issuance date  No of project =1 --- 2.5 Marks No of projects >=2 -- 5 marks	No Change. As per RFP
148.	2.3. Eligibility Criteria Page 11 of 119	S.No. 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.	We request the authorities to kindly amend the clause as below; "The bidder (lead bidder/ consortium member, in case of consortium) should have experience in executing at least 1 GIS project for any State/Central Government department during the last 5 years as on bid submission date."	Refer Corrigendum I
149.	2.3. Eligibility Criteria Page 11 of 119	S.No. 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.	We request the authorities to kindly amend the clause as below; "The bidder/lead bidder/ consortium partner should have executed at least Two Base Map creation/Mapping / Digitization of cadastral map projects during the last 3 years as on bid submission date."	Refer Corrigendum I
150.	2.5. Sub-Contracting conditions Page 13 of 119	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.	We would like to request the authorities to kindly remove the "Field Survey Scope" from the RFP because it is difficult for any vendor to complete the field survey activity across the 7500+ active lease areas within the given timelines i.e. within 43 weeks as it will require to deploy more than 45 survey teams. So, we suggest the department should float a separate tender for survey requirements. Moreover, most of the GIS companies engaged in enterprise GIS implementation do not carry out survey activities themselves and they will anyway subcontract it to survey companies only.	No Change

151.	D. Bidders' Competence Page 23 of 119	S.No. 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	We request the authorities to kindly amend the clause as below; "The bidder/lead bidder should have undertaken at least 2 (min 1 crore) large scale successful GIS project implementation 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"	Refer Corrigendum I
152.	D. Bidders' Competence Page 23 of 119	S.no. 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 No of projects >=2 – <=4 -- 3 marks No of Project >=5 – 5 Marks	We request the authorities to kindly amend the clause as below; "The bidder/lead bidder should have undertaken at least 1 successful GIS project (min. value of Rs. 1 Crore) implementation on Turnkey basis for any State/Central Government department in India in last 3 years as on bid issuance date No of project =1 --- 1 Marks No of projects >=2 – <=4 -- 3 marks No of Project >=5 – 5 Marks	Refer Corrigendum I
153.	D. Bidders' Competence Page 23 of 119	S. No. 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	We request the authorities to kindly amend the clause as below; "The bidder (lead bidder and any one other consortium member, in case of consortium) should have experience in Base Map creation/Mapping / Digitization of cadastral maps  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"	Refer Corrigendum I
154.	General	Bid submission date: 27.08.2018 up to 1500 hrs.	We request the authorities to kindly extend the bid submission date by at least 2 weeks from the date of release of corrigendum for clarifications as it is difficult for any bidder to submit a responsive proposal.	

155.	2.3. Eligibility Criteria/Sr. no. 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.	We request GIL to kindly give some relaxation in the turnover criteria and amend the clause as below: The Lead Partner / bidder must have average annual turnover of <b>INR 15 Crores</b> 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 <b>INR 5 Cr</b> 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.	No change. As per RFP.
156.	2.3. Eligibility Criteria/Sr. no. 5	The Lead Partner / Consortium partner should have at least 50 permanent resources working for GIS based services including GIS based development.	We assume that cumulative strength of lead and consortium member shall be considered for the evaluation. Please confirm.	Yes
157.	2.3. Eligibility Criteria/Sr. no. 5	Certificate from the Auditor /Company Secretary/ Head HR; CVs of at least 100 resources as per the format given in this RFP.	It must be a typo error. It should be 50 resources.	As above.
158.	2.3. Eligibility Criteria/Sr. no. 5	Certificate from the Auditor /Company Secretary/ Head HR; CVs of at least 100 resources as per the format given in this RFP.	We request GIL to allow bidder to submit list of 50 resources instead of CVs of each resources.	As above.

159.	2.3. Eligibility Criteria/Sr. no. 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.	We request GIL to allow on-going project with an in-progress certificate from the client confirming completion of at least Rs. 1 Cr. of the work.	No change. As per RFP.
160.	D. Bidders' Competence/Sr. No.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	We request GIL to consider cumulative turnover from GIS projects and amend the clause as below: The Bidder/Lead Partner cumulative 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	No change. As per RFP
161.	D. Bidders' Competence/Sr. No.1	Supporting doc: Clients' completion certification/ letter	It must be a typo error. CA certificate should be asked to claim the turnover.	As above.
162.	D. Bidders' Competence/Sr. No.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	We request GIL to allow on-going project with an in-progress certificate from the client confirming completion of at least Rs. 1 Cr. of the work.	No change. As per RFP

163.	D. Bidders' Competence/Sr. No.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	We request GIL to please remove word "for the proposed GIS platform" and allow GIS projects experience having scope of DGPS Survey, GIS Application Development and Base Map Preparation; which will be more relevant to the project.	No change. As per RFP
164.	D. Bidders' Competence/Sr. No.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	In pre-qualification criteria, Lead or Consortium member project experience in Mining or Geology domains are allowed. Hence, We request GIL to please allow consortium member experience under this clause.	Refer Corrigendum I
165.	E. Presentation/Pg. No.24	Sr . No. 6: Demonstration of the GIS application module using dummy data based on the functional requirements	How a bidder proposing custom develop solution would be able to demonstrate the GIS application at evaluation stage.? Whether GIL/CGM preferring COTS product for GIS platform?	Bidder is actually supposed to demonstrate existing similar implementation which is most relevant to the requirements mentioned in the RFP.
166.	9.21. TQ_7: GIS Platform Compliance Matrix	9.21. TQ_7: GIS Platform Compliance Matrix	Some of the features of the desired Enterprise GIS Platform is favouring proprietary OEM software. We request GIL/CGM to review the requirement and promote the open source software as per advisory issued by Ministry of IT, GOI for promoting the Open Source Solutions in the e-Governance systems in Govt. Departments on April 2015.  <a href="http://egovstandards.gov.in/sites/default/files/Framework%20for%20Adoption%20of%20Open%20Source%20Software%20in%20e-Governance%20Systems.pdf">http://egovstandards.gov.in/sites/default/files/Framework%20for%20Adoption%20of%20Open%20Source%20Software%20in%20e-Governance%20Systems.pdf</a>	No change

167.	9.21. TQ_7: GIS Platform Compliance Matrix/Point No. 18	Software should have provision to create and save macros / templates using the inbuilt Rapid Application Development (RAD) platform	This feature of GIS Platform is supporting a specific proprietary OEM. We request GIL to please remove this requirement.	Refer Corrigendum I
168.	9.21. TQ_7: GIS Platform Compliance Matrix/Point No. 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	Editing of data through internet should not be allowed because of data security reason. We request GIL/CGM please remove word "Internet" from the clause.	No Change. As per RFP.
169.	9.21. TQ_7: GIS Platform Compliance Matrix/Point No. 31	Should support a variety of Mobile Devices & Platforms like Android, iOS, Windows along with bundled Apps and SDKs for customizing Apps.	What is the benefit to GIL/CGM of having such and very specific requirement of "along with bundled Apps and SDKs for customizing Apps.". The Enterprise GIS should support variety of Mobile Devices & Platforms like Android, iOS, Windows 7 & 8 etc. only. Please confirm.	Refer Corrigendum I
170.	9.21. TQ_7: GIS Platform Compliance Matrix/Point No. 39	The software must have Multiuser GIS database editing option where users can Isolate Editing Projects in Separate Versions/sessions/workspaces (Create).	The requirement of "where users can Isolate Editing Projects in Separate Versions/sessions/ workspaces (Create)" is not required in DB driven editing application. Hence, Request GIL/CGM to remove this specific requirement from the features list.	No Change. As per RFP.
171.	9.21. TQ_7: GIS Platform Compliance Matrix/Point No. 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	Bidder should be allowed to comply with desktop version of the proposed application for some of the tech. requirement, If desktop application is bounded with the proposed web application solution and does not have any financial implication.	No Change. As per RFP.

172.	Pg. No. 33 - Clause No. 4.2.7	The hard copy of the cadastral maps and the topographic sheets will be provided to the selected bidder by CGM	<p>Please confirm if all the cadastral data is already available with CGM. If not then the same most likely will take a very long time. There are two kinds of datasets. 1. Drawings from various mines 2. Cadastral Maps from Revenue Department and 3. Toposheets from SOI.</p> <p>Query 1. Delay in sourcing the same from authorities will lead to a lot of delays in the project and will result in unnecessary delays and cost escalations. Query 2. In case of revenue maps most likely the maps will not be handed over to CGM to bring at a centralized location and digitization might need to be done onsite which will become a major scope change</p>	<p>Query 1. CGM does not have cadastral maps and will be sourcing it from concerned department. If there is a delay in receiving the data and overall delay is not attributable to the selected bidder, there will not be any penalties to the bidder for delay.</p> <p>Query2. The bidder is supposed to geo-reference and digitise only the exploration reports in which are for selected cadastral areas. Bidder does not have to digitise cadastral maps for entire Gujarat.</p>
173.	4.2.5. Survey of existing leases (major and minor) using DGPS/ Pg. No. 32	4.2.5. Survey of existing leases (major and minor) using DGPS	<p>Data Quality Check methodology and criteria along not defined. This much DGPS survey, digitization and vectorization will result into submission of data at very regular intervals most likely daily or every alternate day. How will CGM certify and accept the data.</p> <p>Recommendation - CGM may consider appointing a third Data Validation Agency which will setup a team with necessary infrastructure at CGM premises where all data collected by bidder(s) may be submitted at a defined interval of let's say every 3 days. The agency can be mandated to quality check and revert with issues if any within 3-4 days</p>	As per section 7.1 of the RFP, CGM will be forming a Project Monitoring Group to monitor and manage the project. This group will also include team and mechanism for quality checking of the survey and other work. More details will be provided once the selected bidder is on board.
174.	4.2.5. Survey of existing leases (major and minor) using DGPS/ Pg. No. 32	k. The boundary pillar shall be fixed on ground with reference to at least three permanent ground features in and around mining lease.	Please provide the existing count of boundary pillars which will help us ascertain the maximum number of points to be taken.	The approximate no. of Pillars would be 50000 in number. This figure may vary from the actual by +/-20%.



175.	4.2.3. Procurement of Satellite Imagery	<p>1. The high resolution Satellite data (cloud free) should be derived from merging of Cartosat – 2 (1m resolution if not available then go for Cartosat – 2).</p> <p>2. The Bidder/SI shall prepare an up-to-date large-scale base map (Scale 1:2000 – 1:4000) using satellite imageries 1 (2.5 Meter resolution)) and LISS-IV (5.6m resolution, IRS P6) for the state of Gujarat</p> <p>3. 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.</p> <p>4. 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</p>	<p>As per IBM guidelines required scale is 1:5000. It is not feasible to generate a a 1:1000 / 1:2000 scale base map using Cartosat imagery.</p> <p>It has been clarified that the entire state of Gujarat needs to be covered.</p> <p>Recommendation - Most of the latest imagery will be available with other state agencies like BISAG etc., and by sourcing the same, CGM can save a lot of exchequer money.</p> <p>Query 1 - Please also confirm if Satellite imagery needs to be reacquired by Bidder multiple times or the same will be provided by Department (earlier recommendation may be considered).</p> <p>Query 2 - Satellite imagery payment has to be made upfront based on final quotation by NRSC or immediately after placing the order to NRSC with advance payment.</p>	<p>Query 1 – As per section 4.2.3 the bidder shall procure satellite imagery only once.</p> <p>Query 2 – No change.</p>
176.	4.2.3. Procurement of Satellite Imagery/Pg. No. 32	<p>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.</p>	<p>GIS production of this scale will requires a lot of manpower and IT equipment which might not be feasible to locate onsite and will unnecessarily load the cost of the project. Also the room size given might not be sufficient to manage the entire production environment including, Data vectorization team with workstations with dual monitors, DGPS data integration team, Quality Team, shared storage for satellite imagery. We request CGM to consider allowing the work to be taken up at vendors’ premises or provide a larger space.</p>	<p>No Change. As per RFP</p>
177.	4.2.9. GIS Database Preparation/ Pg. No. 35	<p>Indicative Proposed GIS Layers &amp; its attributes</p>	<p>Many layers such as Telephone Lines, Power Lines etc., cannot be determined by Satellite imagery and might not have been updated in other sources as well. There is no ground survey of non mining area (specifically DGPS survey) so this information might not always be available.</p>	<p>Bidder shall digitise all the layers that are visible / available in the various sources that are mentioned in the section 4.2.9 of</p>

			Additionally various Attribute data such as population etc., might not be available from Cadastral maps and hence it might not be feasible to collect. Please clarify	the RFP. However in case if the said layer is not visible, on the source map, CGM will review and consider the same.
178.	5. SECTION V – WORK COMPLETION & PAYMENT TERMS/Pg. No. 51	Mapping of Exploration Maps, Leases both Major and Minor, Stockiest Maps, Cadastral maps, Satellite base map for 3 initial Districts - T+24 weeks	There are lot of variables such as availability of satellite imagery, handover of site for setup of onsite team, handover of Cadastral maps etc. The timelines must be adjusted to factor all of the above	In case of any delays from CGM, the bidder shall not be penalised.
179.	5. SECTION V – WORK COMPLETION & PAYMENT TERMS/Pg. No. 51	Delivery & Installation of GIS platform licenses (only for desktop based editing and data creation) T+6	To create so much data a large team needs to be deployed and hence a lot of licenses will need to be procured. Upon completion of the project, CGM will most likely not require to maintain such a large team and hence most of those licenses will be wasted and become an unnecessary expense. We suggest bidder to deploy own licenses as may be required and supply a fixed number of licenses as deemed fit by CGM. By doing this CGM can also do away with specifications of desktop software platform as the purpose of CGM is to get the data in adherence of IBM circular. SI will be in best position to decide which software to use to deliver the desired output. This will save a lot of exchequer money	The bidder may choose to deploy additional licences and to meet data creation timelines, however, the CGM will need minimum no. of licences for managing the data internally.
180.	5. SECTION V – WORK COMPLETION & PAYMENT TERMS/Pg. No. 51	Delivery & Installation of GIS platform licenses (for server based / web based GIS) T+43	UAT of entire solution has been asked in T+32 weeks. It is not possible to deploy the system for UAT without delivering the licenses.	Refer Corrigendum I
181.	Section 9.21, page 105	GIS Platform Compliance Matrix	We assume that the specifications provided are hybrid and can be met by a combination of Web and Desktop solution (either or).  Inline with CGMs initiative to follow IBM guidelines, we request CGM to also follow Ministry of IT, GOI recommendation to adopt open source technology as per Ministry of IT, GOI for promoting the Open Source Solutions in the e-Governance systems in Govt. Departments on April 2015 and not provide any technical specifications of the platform, instead providing functional requirements as expected from the system.	No Change
182.	Section 9.22, page 109	Format for Authorization Letters from OEMs	It was clarified that for Open Source Bidder has to provide self declaration of support	Yes. In case if the bidder is proposing an open source

				platform, the bidder will have to provide a self-declaration that will provide the open source platform support for the entire tenure of the project as per the contract.
183.	4.2.2. Supply & installation of Infrastructure & GIS Platform for creation, storage and maintenance of geospatial data/Pg. No. 31	The solution shall have access/capability to download copies of data sets and/or backup images through the Web interface for local storage/possession.	We request you to explain the particular use case when this will be required. If data download like this is allowed, there will be no security logic and anyone would be in a position to take a copy of all data. It might not be teneble to allow download of all data like this because data from third party sources such as satellite imagery, cadastral data is provided only to the indenting organization and cannot be provided to others	No Change. As per RFP
184.	Section 4.2.15,Pg. no. 45	Data and Facilitation scope of Bidder	<p>The scope of physical ground DGPS survey covers 7500+ mines across the state of Gujarat. Adhering to the guidelines of IBM (min 2 hour reading per mine), no one company in India has the required DGPS equipment or manpower to takeup this work at this scale. Considering a team of 2-3 resources with 2-3 DGPS (including a BS), no one company on its own can do average of approx 3 mines a day which would result into 2500+ days to undertake the survey alone. Then the corresponding back-office job etc. Additionally the task of collating the data from other sources and satellite imagery.</p> <p>Recommendation - We suggest that CGM split this RFP into 2. In its current form the Prequalification and Technical Soring Matrix and the scope is very much tuned towards the GIS Software Solutions. This is primarily a survey project and hence we recommend that the department consider splitting the RFP into 2 parts. RFP 1 may be floated as a rate contract whereby all bidders can be given parts of the work by matching the L1 price. RFP 2 can be for the Software solutions. 3. RFP 3 has already been recommended above for quality checking and acceptance of data. CGM may define stringent data standards for the same.</p>	No Change. As per RFP

185.	Section 4.2.1,Pg. no. 30	<p>Estimates of the approximate usage of the proposed GIS application</p> <ul style="list-style-type: none"> <li>· Minimum No. of users on Intranet simultaneously viewing GIS data - 100</li> <li>· Minimum No. of users on Intranet simultaneously editing GIS data - 5</li> <li>· Minimum No. of users on Internet simultaneously viewing GIS data through CGM web GIS portal – 200</li> </ul>	<p>Query 1 - The restriction of users for viewers needs review. The application portal will need to be used by Leesees and other stake holders and the data will be published on internet. No internet application is sized for 200 users. Hence it is mandatory to have unlimited number of users. For infrastructure sizing, an initial load of 25000 or 30000 users may be considered and bidders may be asked to provide commercials accordingly.</p> <p>Query 2 - Editing of data is simply not required online because the RFP stipulates that GIS vendor has to do data updation as provided by CGM for 8 years. Also CGM staff may not really be trained to do the same.</p> <p>Query 3 - The volume of data is going to be extremely high. Satellite imagery alone will be in terrabytes. The other digitized vector from all data sources like cadastral / toposheets etc., will add further volume. This also needs to be considered while sizing the infrastructure and corresponding software licenses.</p>	Refer Corrigendum I
186.	Section 4.2.11,Pg. no. 37	Design & Development of Enterprise GIS application for CGM. Workflow Desginer, Workflow Engine, Workflow Simulator, Mobile Viewer GIS based applications	<p>Query 1 - What is the practical use case for the requirement of Workflow. The Bidder has to maintain the system for 8 years so the department will have no need to itself design a workflow or simulate the same.</p> <p>Query 2 - The mobile viewer GIS based applications requires 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. This is a requirement for a survey app and not for this kind of an application. Data editing using mobile in this case may not be required. pre downloading or caching of data also may not be required and are not safe. These points specifically favour OEMs who have built these features for specific use cases. We request you to please remove.</p>	No Change

187.	Section 4.2.12,Pg. no. 40	Integration with existing CGM systems and application	Please explain the specific use cases of integration to help us estimate the efforts. Please elaborate specifically on integration requirements of ERP / Mining Surveillance system / CCC.	The use case development is selected bidder's job during implementation. The functional requirement has been mentioned in the RFP. The systems like Command & Control Centre / ERP / VTMS are under development and hence bidder may choose to check the details of these systems through RFPs of these systems which are available in public domain.
188.	General	Project Organization	Please elaborate on the project organization structure that will be formed at CGM.	The Project Organisation structure will be formalised, once the bidder is selected. However the indicative roles and responsibilities have been mentioned in the RFP.
189.	Section 4.2.15,Pg. no. 45	Data and Facilitation scope of Bidder	Please provide sample data of 1 particular mine to understand the complexity of the data to be managed, digitized and published.	No Change
190.	Clause 4.2.5, Scope of Work, Survey of existing leases (major and minor) using DGPS, Point no "6"/ Page 32 and Sl. No 5 & 6 in table [1.2] Implementation cost under Clause 9.26. FORM: Financial Bid in page no. 116	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 <b>The proposed scope of work will be as under:</b> 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.	Request GIL-CGM to kindly clarify that what would be the distance between each pillar of lease boundary and the total no. of estimated pillars to be erected and fixed at the respective Major and Minor leasing areas of CGM as this will be one of the cost implications to the total project value? <b>Alternatively,</b> Incase, if the total no. of estimated pillars are not quantifiable or not available with GIL-CGM at the moment, we request you to kindly allow us to quote per pillar cost for fixing & DGPS survey at Sl. No 5 & 6 in table [1.2] Implementation cost under 9.26. FORM: Financial Bid in page no. 116	No Erection of Pillars are required physically. This means the bidders are not supposed to do any civil work. However, the bidder are supposed locate the boundary pillars following the IBM guidelines.  Also, the approximate no. of Pillars would be 50000 in number. This figure may vary from the actual by 20%.

191.	Clause 6.5, 6.5. SLA for Survey and Map Creation, Table, Sl. No "1"/ Page 55	<b>DGPS ground control point accuracy</b> Should be <0.3m.	<p>We understand there is no need for mm level accuracy in minor minerals Viz. Clay, Sand etc., while major minerals Copper, Lead, Zinc and other metalliferous mines needed high accuracy. For precious metals and strategic minerals mm level or micrometer level survey accuracy may be required.</p> <p>Having same accuracy levels for all types of mines may not be required and also it has implecations on the costing, kindly clarify?</p>	No Change
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