CORRIGENDUM 1
RFP for development of GPS based Vehicle Tracking System for Office of the Commissioner of Geology & Mining (CGM)
(Tender no: SW27062017138)

Sr. No.	RFP Page No.	RFP Section / Clause No.	Content of the Section of Clause	Revised Terms / Clarifications
Eligibility Related:				
1.	10	2.3 (2)	Bidder should have demonstrable expertise and experience in developing at least five web based integrated IT solutions involving all the phases of SDLC (Software Development Life Cycle) in *last five years as on 31.03.16*	Bidder should have demonstrable expertise and experience in developing at least five web based integrated IT solutions involving all the phases of SDLC (Software Development Life Cycle) in *last five years as on bid submission date.*
2.	10	2.3 (3)	The bidder must have turnover of Software/IT products Development and Support service activities of at least *Rs. 25 crores* for each of the last three financial years as on 31.03.2016.	The bidder must have turnover of Software/IT products Development and Support service activities of at least *Rs. 20 crores* for each of the last three financial years as on **31.03.2017.**
3.	10	2.3 (5)	The bidder must have implemented & operationalized at least 1 (One) such GPS based tracking System/solution comprising of at least 1000 vehicles including operation services in **last 5 years as on 31.03.2016**	The bidder must have implemented & operationalized at least 1 (One) such GPS based tracking System/solution comprising of at least 1000 vehicles including operation services**.**
4.	10	2.3 (7)	The bidder should have at least 100 technically trained employees on its payroll *as on 31.03.2016*. Out of them 50 employees should be in the Design, development and integrated IT Solution, implementation support, configuration, customization, testing, user acceptance, training, hand holding and application support activities.	The bidder should have at least 100 technically trained employees on its payroll *as on bid submission date*. Out of them 50 employees should be in the Design, development and integrated IT Solution, implementation support, configuration, customization, testing, user acceptance, training, hand holding and application support activities.
5.	-	-	Additional	The bidder must be a profit making company since last five years as on **31.03.2017.**
Final evaluation related:				
6.	17	2.22	*Methodology & Criteria for Technical, Commercial and final evaluation*	Final evaluation will be done by QCBS method wherein 70% weightage will be given to technical score and 30% weightage will be given to financial score.

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Technical Evaluation related:				
7.	18	2.22.6 (1)	No. of years since the bidder is engaged in similar IT projects/solutions business, *(as on 31.03.2016)* *>12 Years – 5 marks* *9 –12 Years – 3 marks* *5–8 Years – 2marks*	No. of years since the bidder is engaged in similar IT projects/solutions business, *(as on date of submission of bid)* *>= 9 Years – 5 marks* *7 – <9 Years – 3 marks* *5–<7 Years – 2marks*
8.	18	2.22.6 (2)	No. of projects for which bidder has completed/ ongoing demonstrable expertise and experience in such GPS based Vehicle Tracking & Monitoring System (VTMS) in last 5 years	No. of projects for which bidder has completed/ ongoing demonstrable expertise and experience in such GPS based Vehicle Tracking & Monitoring System (VTMS) having minimum cost of Rs. 2 crores in State or Central Government/ PSU / Quasi Government / Urban local body/Private sector in last 5 years. 1 projects – 2 marks 2 projects – 3 marks 3 projects – 5 marks 4 projects – 10 marks
9.	18	2.22.6 (3)	No. of projects for which bidder has completed/ ongoing demonstrable expertise and experience in developing web based integrated IT solutions involving all the phases of SDLC (Software Development Life Cycle) having minimum cost of Rs. 5 crores in last in last 5 years in *State or Central Government/ PSU / Quasi Government / Urban local body* *> = 5 projects –10 marks* *3 –4 projects – 5 marks* *1 – 2 projects – 3 marks*	**2.22.6 (3.1)** No. of projects for which bidder has completed/ ongoing demonstrable expertise and experience in developing web based integrated IT solutions involving all the phases of SDLC (Software Development Life Cycle) having minimum cost of Rs. 5 crores in last in last 5 years in *State or Central Government/ PSU / Quasi Government / Urban Local Bodies / Private Sector* > = 5 projects –5 marks (at least 3 in Govt.) 3 –4 projects – 3 marks (at least 2 in Govt.) 1 – 2 projects – 2 marks (at least 1 in Govt.)
				2.22.6 (3.2) Experience in providing solution to State Mining Department for eGovernance services having minimum cost of Rs. 5 crores in last 5 years. > 3 projects –5 marks 2 –3 projects – 3 marks 1 projects – 2 marks
10.	18	2.22.6 (4)	Average turnover of bidder in last three financial years as on 31st March, 2017 from Software / IT product Development and Support service activities. Year 2014-2015 Year 2015-2016 Year 2016-2017	**> Rs 30 Cr. –10 marks** **> Rs 25 Cr. & upto Rs 30 Cr. – 7 marks** **> Rs 20 Cr. & upto Rs 25 Cr. –5 marks**

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			>= Rs. 40 crores – 10 marks >= Rs 35 &uptoRs 40 crores – 7 marks >= Rs 30 &uptoRs 35 crores – 5 marks >= Rs 25 Crore &uptoRs 30 crores – 2 marks	
11.	18	2.22.6 (5)	Manpower deployed by the organization for managed IT services in India as on *31st March, 2016.* *> 500 – 10 marks* *>=200 and upto 500 – 7 marks* *>=100 and upto 200 – 5 marks* *> 100 – 3 marks*	IT technical Manpower deployed by the organization in India as on *date of submission of the bid.* **>= 200 and upto 350 – 10 marks** **>100 and < 200 – 7 marks** **>50 and Upto 100 – 5 marks**
12.	18	2.22.6. (6)	The Company should have Experience of implementing one similar GPS based vehicle tracking project for single client in last 3 years on proposed application platform having no. of vehicles > 5000 = 10 marks >= 3000 and upto 5000 = 7 marks >= 2000 and upto 3000 =5 marks >= 1000 and upto 2000 = 3 marks	The Company should have Experience of implementing one similar GPS based vehicle tracking project for single client in last 3 years on proposed application platform having no. of vehicles > 6500 = 10 marks > 4500 and upto 6500 = 7 marks > 2500 and upto 4500 =5 marks > 1000 and upto 2500 = 3 marks
13.	19	2.22.6 (7)	Experience of Similar GPS based vehicle tracking project in Mining sector *More than 4 projects –5 marks* *2 projects – 3 marks* *1 project – 2 marks*	Experience of Similar GPS based vehicle tracking project in Mining sector ***2-3 projects – 5 marks*** ***1 project – 3 marks***
14.	19	2.22.6 (8)	Technical Presentation (40 marks)	Technical Presentation & Demonstration having total 40 marks. The revised criteria are as under
Other scope of work & contract related:				
15.	26	3.4	Feature of getting alerts through SMS / emails	Department will provide SMS and email gateways.
16.	26	3.4	Mobile Apps Platform Support	Should support Standard Platforms – Android, iOS, Windows
17.	26	4	RFID tags will also be installed into the vehicles, so that through RFID reader installed at mines, at CGM check-posts or other monitoring locations	Department is in process of installing RFID Tags into Registered Vehicles and its Readers at specific locations. The proposed application should support feature of reading RFID tags through API
18.	27	(b)	The GPS-device shall be capable to work in case of failure or	Standard Stand-by Battery Life of GPS Device or 8-10 hours, whichever is higher

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			malfunctioning of Vehicle Battery also.	
19.	29	A	Desired Features and Specifications of the Proposed VTMS Application	The proposed VTMS system should provide solutions using *Open Standard GIS tools functionalities to* customize / develop the software with following functions which will enhance the VTS Application capabilities. The mapping platform/system/server used for the map engine to be delivered can be either open source or propriety. Data like lease information, forest area, stations, street names, road network, water features etc. will be provided by the department with GIS map. Department will take care in case of any other ground survey activities. Route master, POE (Latitude and Longitude) etc. related to vehicle tracking required would be provided by the department.
20.	35	11	The VTMS application should have open standard databases such as ***SQL*** and should also be compatible to support proprietary databases like MS-SQL, Oracle etc.	The VTMS application should have open source databases such as ***Postgres*** and should also be compatible to support proprietary databases like MS-SQL, Oracle etc. Bidder will propose the OS, DB, Microsoft office license and any other licenses which will require running the system successfully and procure by the bidder in the name of Department. Bidder will also suggest the IT infrastructure to run the application successfully which will be provided by CGM on cloud environment at SDC.
21.	38	D.f	The system should be able to generate accident, breakdown or harsh breaking alerts	Basically a SoS type Alert should be generated in form of siren / sound in the Control Room and SMS, email or Autocall.
22.	38	3.4.D	Desired Features and Specifications of the GPS-device System	As per table given below
23.	54	9.19.1	If that party fails to respond within 30 days, or the dispute cannot be amicably settled within 60 days following the response of that party, then ***clause 8.18*** shall become applicable.	Please read it as Clause No. 9.18
24.	55	9.19.1	The contract period is of ***8 years***. However the Department will take the review on all the activities carried out, performance reports	The contract period is of ***5 years***.

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			submitted by bidder after the completion of 5 Years. The SI agrees that in any case SI shall not terminate the contract. However, the department reserves a right to terminate the contract by sending a notice to the bidder in the events of non-performance, security violations and non-compliance And other professionally undesirable circumstances.	
25.	19	2.22.6.1.	Technical Presentation	Technical Presentation & Demonstration having total 40 marks

➤ **Technical Presentation & Demonstration**

Sr. No.	Evaluation Criteria	Marks
Presentation Criteria		
1	Understanding of Scope of Work	2
2	Approach and Methodology	2
3	Experience of similar projects	2
4	Software solution design and Architecture	2
5	Features of offered solutions meeting the scope of work	5
6	Implementation Strategy (Pilot and State wide roll out)	2
7	Manpower / Resource deployment	2
8	Proposed value additions	3
Demonstration Criteria		
9	Dashboard and MIS	5
10	Incident Management	5
11	Live Vehicle and Route Replay	2
12	Trip Monitoring	3
13	Alerts and Violation	3
14	Geofencing and Route Creation	2
	Total Marks	**40**

The financial bids of only those bidders, who have scored at least 70 marks in the technical evaluation process, will be opened.

GPS Device Specifications	
S.No	**Parameter / Specification**
1	32 channel , L1-C/A code (1575.42 MHz) and 32 channel , L5 (1175.46 MHz) (IRNSS), Should support GAGAN
	Accuracy : < 2.5 m (CEP), Acquisition Sensitivity : (-) 148 dBm (W.r.t Antenna), Tracking Sensitivity : (-) 165 dBm (W.r.t Antenna), Hotstart < 3 sec , Warm Start < 30 Sec (Open Sky) , Cold start < 35 Sec (Open sky), Supports anti Jamming, Data output as per NMEA 0183 Ver 4.10, Datum WGS84, Internal GPS Antenna, RAIM
2	• Quad Band (850/900/1800/1900 MHz) • Should Support minimum 2G band and upgradable upto 3G, 4G, update interval for Live packet – Minimum 5 Sec • GPRS Class 10 and above • Internal GSM Antenna • AGPS / Cell tower based positioning (in case of non-Availability of GPS) • Should support Voice, Data, TCP/IP, UDP & HTTP • Multi IP connection (Primary IP & Secondary IP) • Firmware over the air upgrade (FOTA)
3	2 Analog, 4 Digital, 1 Odometer Pulse, 1 Can Interface, 1 RS232 Input / Outputs
4	Device configuration through : SMS Mode, GPRS Mode & Serial Mode
5	LED Status : Power, GSM and GPS
6	Alerts : Internal battery voltage, percentage monitoring (low battery alert), External Battery Monitoring (Main power connect and disconnect alert, low external battery alert), Over speed alert, Overturning detection, Device tampering alert (Lid open and close), Harsh braking and Harsh acceleration alerts
7	Internal memory : 128 Mbits, Support over 48K data logs storage, Should store the data for over 30 days at 1 minute data update interval
8	Electrical specification : Internal battery backup in active mode: 24 hours @ 1min data transmission interval, External power supply : 6 - 36 V, Sleep mode average current < 8 mA, Active mode average current (Battery not charging) < 50 mA, Active mode average current (Battery charging) < 200 mA, Surge protection (As per ISO 7637-2: 2004 standard),
9	Environmental specification : Operational temperature range: -10° C to 70° C, Storage Temperature Range: -40°C to +85°C, Humidity: 95% non-condensing at +25° to +55° C, Vibration, Shock
10	Sensors support : Fuel, Active RFID, Passive RFID, Internal accelerometer, Internal Gyro, SOS button, Mic and Speaker for two way communication
11	Wire Gauge should be minimum of 24 AWG
12	Security and protection : Data encryption, Reverse voltage protection, Surge protection, Mobile number authentication for device configuration over SMS interface, Device password protection to enter in configuration mode over serial interface, Authorized mobile numbers configuration for two way communication
13	Other features : Distance measurement from GPS (> 99% accurate), Geo fence (circular, polygonal), Sleep mode wakeup : Ignition, Accelerometer, Configurable timer, SMS mode, VTU health monitoring, Deep sleep mode
14	Certifications : ARAI or equivalent, IP -67, EMI/EMC : AIS:004, Vibration: As per IS 9000-part 8 – 1981, Shock Test : As per IS 9000-part 7 – 2006, Load Dump Test : As per standard ISO 7637-2: 2004, Operating Temperature Test: (-) 10° to +70° C, Humidity 95%.
15	Enclosure : IP-67 Rating or higher
16	Should be made in India (indigenous)
17	Tracking : Time Based, Distance Based, Angle Based

➢ **Manpower Deployment at CGM office (Ref. Page no. 43 – Clause no. 6)**

Operational Support Unit		
Project Supervisor / Dy. Project Manager (Working in general shift)	1	More than 10 years of experience in IT Sector and Should have handled at least 5 integrated IT projects B.E.IT/CE/EC/M.Sc. (IT) or MCA + MBA (preferred) through recognized University/ Technical Institutes with minimum First class or equivalent - Preferably PMP/Prince2 Certified or equivalent
Software Support Engineer	2	More than 6 years of experience in IT sector and should handle at least 3 e-Governance project B.E.IT/CE/EC/M.Sc. (IT) or MCA through recognized University/ Technical Institutes with minimum First class or equivalent
IT Infra Support Engineer	1	More than 1 years of experience in IT sector and should handle at least 2 IT project B.E.IT/CE/EC/M.Sc. (IT) or MCA through recognized University/ Technical Institutes or equivalent
Help Desk Support Unit		
Supervisor Engineer	1	More than 3 years of experience in IT sector and should handle at least 2 IT project B.E.IT/CE/EC/M.Sc. (IT) or MCA through recognized University/ Technical Institutes or equivalent
Helpdesk support Engineer	3X3	More than 2 years of experience in IT Sector and Should have handled at least 1 IT projects Diploma / B.Sc. in IT /CE from any recognized University or equivalent

Generic features for VTMS platform

- Register driver details as well along with the vehicle and ability to block the driver if he commits any assault or anything untoward on the CGM staff anywhere.
- Ability to view all the vehicles carrying a particular minerals across the state and ability to zoom it.
- Ability to rate the vehicle in terms of fair practices based on the penalty, seizure and assault instances, a rating from 1 to 5 would be preferred, where 1 being the lowest and 5 being the highest
- Ability to de-register the vehicle, if seized for more than x number of times and track and highlight its location subsequently
- Ability to send notifications for any instances to district and central staff via SMS and email
- Ability to integrate with RTO API's to fetch the real time vehicle RTO data

ILMS Integration

The to be developed VTMS platform should be able to pull following data from the ILMS system

A. Royalty pass /Delivery challan details

- Details of all the current and previous royalty passes/Delivery challans used by the vehicle
- No of times the vehicles have been seized
- Total amount of penalty paid by the vehicle owner and identify their corresponding royalty passes

B. Analytics

- Total amount of minerals carried by the vehicle till date, separated by Major, Minor minerals and further drilled down by mineral type
- Regions where the vehicles operates and gets seized most of the times
- Total amount of penalty paid for major, minor minerals and further broken down mineral wise
- Identify a combination of defaults which most frequently happen and provide actionable intelligence to CGM which include
  - Combination of vehicle and the lease sources, stockiest which gets seized maximum number of times
  - The region where a vehicle gets seized maximum number of times
  - The mineral for which the vehicle gets seized maximum number of times

C. Loading and Unloading locations

Ability to track the loading and unloading location of the vehicles as per the royalty pass and alert CGM staff if there is a slight deviation in vehicle either loading or unloading to a different place. This data should also be time stamped to understand when the vehicle was loaded and unloaded.

Integration with Integrated command and control center (CCC)

Ability to integrate with to be developed Command and control center for following at least following mentioned use cases and others

1. Providing the API/ Feeds to be directly consumed by CCC software or any other intermediary software for all the analytics information requested in ILMS integration part b) section above
2. Ability to provide ad hoc details pertaining to vehicle movement, loading, unloading locations, vehicle whereabouts by CCC or any other intermediary software
3. Ability to provide requested map view (satellite, normal map view or hybrid) by CCC software or any other intermediary software
4. Providing details of the location of vehicles for which the complaints have been raised in Gujmine mobile app
5. Ability to trigger an alert if the vehicle passes a nearby check post without going in, (nearby – range of radius 1 km)
6. Providing whereabouts of CGM vehicles on map to understand their movements and to help them if required
7. Provide violations alerts for vehicles if they have crossed any geo-fenced area or they have bypassed from their area of registration
8. Provide historical reports for vehicles about penalty, violations, and seizures on demand and while looking for details of any vehicle on CCC software or any other intermediary software. These historical reports should be filtered region wise (up to taluka level), mineral wise and route wise
9. Ability to integrate with RFID ecosystem in future.

Integration with GIS Platform (to be developed)

1. Ability to consume GIS maps when developed and provide the vehicle information on the GIS maps of CGM.
2. Ability to show the info in GIS maps on CCC as well.
3. At least 1 month of parallel information viewing on both the maps, during the transition period to ensure and test the successful transformation
4. It would be the responsibility of the VTMS vendor to successfully migrate the vehicle movement data to GIS maps
5. The existing VTMS application may continue to run as it is

Integration with Gujmine

Ability to take a vehicle number from Gujmine complaints and track the vehicle movements and show it on CCC and VTMS platform until CGM staff unpins the complaint or mark it as resolved

- ➤ **Mobile Features**
- Mobile application have provision for user to select the choice of language (Gujarati & English)
- Mobile application shall provide the map based tracking and transit route line based tracking of vehicle
- Alert message for trip violation through mobile application
- Centralized dashboard for mobile application
  - ➤ Dashboard for Departmental user
    - ❖ Number of Registered Transporter
    - ❖ Number of Individual vehicle owner
    - ❖ Number of Running Trip
    - ❖ Number of Closed Trip
    - ❖ Number of Trip violation
- Departmental official can able to view any trip by entering of vehicle number
  - ➤ Dashboard for Transporter/Individual Vehicle Owner
    - ❖ User may able to view/ update/delete their profile information through mobile application
    - ❖ User can able to registered/view their vehicle & GPS device information through mobile application
    - ❖ User may able to update/delete their vehicle information through mobile application
    - ❖ User may able to view their running trip on google map
    - ❖ Number of Running Trip
    - ❖ Number of Closed Trip
    - ❖ Number of Trip violation
- In case of vehicle breakdown, user may able to assigned another vehicle through mobile application for current ATR
- Integration of report functionality with mobile application