

Corrigendum

(Bid Number: GEM/2022/B/2063587)

Revised 29: Delivery & Installation: Within **120** working days from the date of purchase order at respective site / locations across the Gujarat State.

Revised 36: Hosting Application (State Data Center)

The Software/Database will be hosted in State Data Center as per provisions provided by Department of Science & Technology. State Data Center will provide computing infrastructure on x86 platform. SDC will provide the entire required infrastructure such as servers, GSWAN (Gujarat State Wide Area Network) connectivity and internet connectivity etc.

The Agency has to develop the application/software compatible with x86 platform. However, the Agency is required to provide the software (server operating system and database software) for actual running the application on x86 platform with 6 years of AMC/ATS, provide the software/application and database support with 6 years contract period and also perform the software and other related installation / configuration at SDC. SDC will provide required SSL Security Certificate. The Application shall work on centralized architecture, in which application and database, both shall be hosted on central servers in State Data Centre (SDC). Selected Agency is required to propose the required IT hardware/server infrastructure (computer power, storage, minimum number of Cores, Memory etc.) or other hardwares, such case SDC/Department will purchase suggested hardware/server separately.

As a part of technical bid, the detail BoM required is to be proposed as below:

Sr. No.	Item	Minimum Specification required	Quantity	Remarks (If any)

The required compute power and storage will be provided by SDC. However, agency has to provide required Server OS, Database and other licenses.

Bidder has to provide database and Server Operating System in open source platform. All the incoming & out-coming traffic with device and web portal should be on HTTPS (Secure port) and All the Web Services should be Accessed through URL approved by Department of Science & Technology. All the authentication parameters/sensitive data should be transferred encrypted. For high availability of the database, bidder should configure Application & Database with Active-Active configuration to cater high number of transaction and seamless access to the application. All the database access should be through application layer only; no direct database access will be allowed over HTTP/HTTPS.

Security Audit from CERT-in empaneled vendor will be carried out before hosting the application at GSDC and security audit's cost of software will be borne by Department.

Internet Connectivity

Wireless cellular internet connection (SIM cards) at each reference station (2 sim card) and Rover side (1 sim card) must be provided by the bidder on behalf of SC & DLR office. The bidder will have to provide activated SIM cards (in the name of SC & DLR office) as per the requirements. The actual cost incurred by bidder for the SIM card / internet data plan etc. will be reimbursed from SC&DLR office.

Revised 41 Project timeline (4 months)

The work schedule for the project is listed in Table below. The total project duration is 3 months:

T: LOI acceptance Date

Sr. No	Milestones	Completion Timeline
1	Phase 1: Detailed feasibility study and designing	T + 15 days
2	Phase 2: Control centre implementation	T + 30 days
3	Phase 3: Construction of Monumentation	T + 60 days
4	Phase 4: Successfully Inspection, Delivery hardware/software with accessories at site locations.	T + 105 days
5	Phase 5: All hardware/software with successful Installation, Commissioning, Testing, Analysis and running the system and acceptance of the Department.	T + 115 days
6	Phase 6: System Training for System Administrator and Field Training	T + 120 days
7	Warranty for 1 year	From the date of Completion of successful installation
8	CAMC (Comprehensive Annual Maintenance Contract) for 5 years	From the completion of warranty period of 1 year

Responses to the Queries (Bid Number: GEM/2022/B/2063587)

Sr No	Bidding Document Reference & Content of RFP Requiring Clarification	Points of Clarification required	Responses to the Queries
1	<p>GeM Bid Document "GEM/2022/B/2063587" on Page No.-1</p> <p>Primary product category - Project Manager for Monitoring Centre charges for 6 years</p>	<p>This is to inform that experience is asked on primary product category in Experience Criteria. As per GeM Bid document, Primary product category is "Project Manager for Monitoring Centre charges for 6 years". We request to kindly amend the Primary product category as "DGNSS Receiver & Antenna for CORS Station" or "DGNSS Integrated Rover" so that bidder can submit the relevant experience in this regard.</p>	<p>We have already asked relevant experience in scope of work & Additional Terms and Conditions documents.</p>
2	<p>Scope of Work & Additional Terms and Condition Section 1, Additional Eligibility Evaluation Criteria Point-3 on Page No. 2</p> <p>Bidder must ensure that the warranty support & service should be available up to delivery locations to provide repairing cum replacement services of faulty equipment within 72 hrs. Bidder is required to provide the name, address & contact details of the authorized service center for providing warranty support & repairing cum replacement service up to delivery locations. (Form no. E-5)</p>	<p>We request you to kindly amend the clause as mentioned below:</p> <p>Bidder must ensure that the warranty support & service should be available up to delivery locations to provide repairing cum replacement services of faulty equipment within 4 days for CORS solution and 7 days for rover and tablet. Bidder is required to provide the name, address & contact details of the authorized service center for providing warranty support & repairing cum replacement service up to delivery locations. (Form no. E-5)</p>	<p>No Change.</p>
3	<p>Scope of Work & Additional Terms and Condition Clause No.24 -Technical Bid, Evaluation Criteria: Technical Specification evaluation criteria page no.6</p> <p>Technical Specification evaluation criteria Project Experience and Field Demonstration</p>	<p>We request you to kindly consider and amend the evaluation criteria as per request.</p>	<p>No Change.</p>

4	<p>Scope of Work & Additional Terms and Condition Clause No.24 -Technical Bid, Evaluation Criteria: Project Experience, offer methodology and additional feature, Point No-1 on page No.7</p> <p>Previous Similar Project Experience supplying, installation and commissioning of CORS Network (RTK) system including Software, hardware with all accessories. The Bidder / OEM / OEM subsidiary should have prior experience in supplying, installation and commissioning of CORS Network(RTK) system including Software, hardware with all accessories</p>	<p>We request you to kindly provide clarification on whether "Bidder can provide OEM's foreign order copies as part of Evaluation Criteria"?</p>	<p>Yes, OEM's foreign orders are acceptable</p>
5	<p>Scope of Work & Additional Terms and Condition Clause No.26 on page no.9</p> <p>As per the provision in Electronics & IT/ITeS Start-up Policy Resolution No. ITS/10/2015/5284/IT dated 6th June, 2016 issued by Department of Science & Technology or as amended time to time; 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% of the contract value to the eligible start-ups and to students of shortlisted Technical Colleges in Gujarat. In such arrangements,</p>	<p>We request you kindly elaborate the requirement of "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% of the contract value to the eligible start-ups and to students of shortlisted Technical Colleges in Gujarat."</p>	<p>It is not mandatory to pass work to the eligible start-ups and students.</p>

	the responsibility of meeting SLAs (Service Level Agreements) will continue to belong to the solution provider or the system integrator. (No EMD Exemption.)		
6	<p>Scope of Work & Additional Terms and Condition Clause No.27 on page no. 10</p> <p>The bidder will have to offer the inspection at bidder warehouse in Ahmedabad / Gandhinagar before delivering to the respective site or at customer sites. The cost of the same has to be borne by the supplier. Any deviation found in the specification of the produced goods from the bid specification will lead to the cancellation of the order, forfeiture of EMD/PBG and prohibition in the participation in the future purchase of Government of Gujarat. GIL/GoG will not be responsible for any time delay which may arise due to any deviation from the bid technical specification found at the time of inspection and the bidder has to deliver and install the ordered goods within prescribed time limit. At the time of inspection, bidder is required to produce OEM's confirmation on OEM's letter head for back to back warranty support as per tender terms & conditions.</p>	<p>We request you kindly elaborate the requirement of "Inspection at bidder warehouse in Ahmedabad / Gandhinagar before delivering to the respective site or at customer sites." If in case bidder is not having the warehouse in Ahmedabad / Gandhinagar.</p>	<p>Department Suggested that first Delivering all materials at "DISRA" Gandhinagar than after department committee would be inspection done. Then after delivering destination. Any deviation found in the specification of the supplied goods from the bid specification will lead to the cancellation of the order, forfeiture of EMD/PBG and prohibition in the participation in the future purchase of Government of Gujarat. GIL/GoG will not be responsible for any time delay which may arise due to any deviation from the bid technical specification found. The bidder has to deliver and install the ordered goods within prescribed time limit.</p>

7	<p>Scope of Work & Additional Terms and Condition Clause No.29 on page no. 10</p> <p>Delivery & Installation: Within 90 working days from the date of purchase order at respective site / locations across the Gujarat State.</p>	<p>We would like to bring this to your kind notice that manufacturers are facing multiple challenges in manufacturing the equipment's due to following below mentioned reasons:</p> <ul style="list-style-type: none"> • Shortage of semiconductors, electronic components have disrupted production across global industries • Geopolitical disturbance in Europe have further added to availability issues <p>Therefore, we request you kindly amend the delivery timelines to supply the complete required equipments for smooth execution of the project: -</p> <p>Delivery & Installation: Within 180 working days from the date of purchase order at respective site / locations across the Gujarat State. OR Distribute the total quantities in multiple LOTS.</p> <p>Request you to kindly consider the above-mentioned request and amend the delivery timelines to enable us to bid for this project.</p>	<p>Delivery & Installation: Within 120 working days from the date of purchase order at respective site / locations across the Gujarat State.</p>
8	<p>Scope of Work & Additional Terms and Condition Clause No.34 Scope of work-Background on page no. 11</p> <p>The rover should be lightweight, portable handheld units. The system should generate corrections on GPS L1, L2, GLONASS L1, L2, Galileo, Compass (BeiDou) and should be upgradable track and provide corrections on NavIC (IRNSS) whenever the systems are functional</p>	<p>Mentioned specifications are for Rover and Controller. Request you to kindly amend the requirement.</p>	<p>The rover should be lightweight, portable units. The system should generate corrections on GPS L1, L2, GLONASS L1, L2, Galileo, Compass (BeiDou) and should be upgradable track and provide corrections on NavIC (IRNSS) whenever the systems are functional</p>

9	<p>Scope of Work & Additional Terms and Condition Clause No.34 Scope of work-Background on page no. 11</p> <p>Carry out feasibility study of the area before designing the network. The feasibility study should include the study of ionosphere, troposphere, terrain and the locations where DGNS receivers can be installed and maintained for 6 years.</p>	<p>Feasibility study, all site approval for CORS installation should be provided by the user to save the implementation time.</p> <p>Request you to kindly delete the clause.</p>	No Change
10	<p>Scope of Work & Additional Terms and Condition Clause No.34 Scope of work-Background on page no. 11</p> <p>Supply and installation of state of art CORS network of 66 stations covering the entire region of Gujarat State by taking into consideration factors such as coverage, distribution, topography, environmental factors and utilities. Each monument should have details inscribed on brass plate as approved by the department.</p>	<p>User needs to provide the details of all CORS sites with accurate location (latitude and longitude) with best fitted coverage model to avoid the confusion and delay.</p> <p>Request you to kindly delete the clause.</p>	After feasibility report of tentative locations prepared by selected bidder, monumentation of CORS will be decided by Department
11	<p>Scope of Work & Additional Terms and Condition Clause No.34 Scope of work-Background on page no. 11</p> <p>Designing the state of art network for Gujarat State. The design should include monumentation, power supply including AC, DC and optional Solar panels, Communication facility using broadband or GSM/GPRS service on dual SIM modem,</p>	Please define the optimal number of license required for control center software and for concurrent users to optimize the cost of bid and to have clarity on the requirement.	The solution should have remote monitoring of hardware and it should be able to handle 70 CORS Station. Kindly see the Corrigendum for other details.

	router, Safety cabinet and security of the complete installation. The solution should have remote monitoring of hardware and it should be able to handle more than 100 to 150 CORS data and the application should be capable of handling at least 2000 users and 1000 concurrent users.		
12	Scope of Work & Additional Terms and Condition Clause No.34 Scope of work-Background on page no. 12 Supply of 350 rovers GPS/GLONASS handheld receivers with state of the art technology to achieve 2 cm to 5 cm of accuracy in real time using the newly installed DGNSS network system	We request you to kindly review and elaborate the scope of work for requirement of rovers.	Supply of 350 rovers GPS/GLONASS Pole Mounted DGNSS receivers with state of the art technology to achieve 2 cm to 5 cm of accuracy in real time using the newly installed DGNSS network system
13	Scope of Work & Additional Terms and Condition Clause No.34 Concept of DGNSS RTK network and CORS Technology : on page no. 12 The concept of Network RTK system shall utilize at least three reference stations from a local DGNSS network to estimate the spatially correlated errors (ionosphere, troposphere and orbit) within the network coverage area.	Minimum five stations are required to form a network, request you to kindly amend the requirement.	Revised as; The concept of Network RTK system shall utilize at least five reference stations from a local DGNSS network to estimate the spatially correlated errors (ionosphere, troposphere and orbit) within the network coverage area.
14	Scope of Work & Additional Terms and Condition Section II/System Configuration and Components/Control Centre on page no. 16	The supplied controller software must have support of WMS and WFS services to receive the data from Bhunaksha server or any other GIS server As per specification in RFP controller should run on Windows and Bhunaksha app is available for Android	As per bid, controller should run on Windows or Android Based Perpetual License (windows 8,8.1 or higher, Android9 "Pie" or Higher)

	The supplied controller should also support Bhunaksha mobile application developed in android developed by NIC. Bidder should provide API/Functionality for latitude-longitude to be consumed by BHUNAKSHA mobile application.	only. The integration to BhuNaksha server can be done through WMS services.	
15	Scope of Work & Additional Terms and Condition Section II/Hardware and software Requirements /DGNSS Receiver on page no. 17 SBAS- L5 L-Band / Any, Free Subscription	SBAS-L5 is available with WAAS signal only and WAAS signal is not available in India. L-band correction is not required in CORS network or during network RTK solution as system software has capacity to adjust and cross check the position of each CORS system/base line. We request you to kindly make this optional	In India "GAGAN" is available in L1 and L5 band services so Rovers should be supported to this services.
16	Scope of Work & Additional Terms and Condition Section II/Hardware and software Requirements /DGNSS Receiver, on page no. 17 7) The offered receiver shall offer a minimum of two power inputs supporting both AC and DC operation with a minimum input power range of 10-30VDC	Request you to kindly amend the clause as mentioned below; - The offered receiver shall offer a minimum of two power inputs supporting both AC and DC operation with a minimum input power range of 10.5-28vDC	No Change
17	Scope of Work & Additional Terms and Condition Section II/Hardware and software Requirements /DGNSS Receiver, on page no. 18 The offered receiver shall be capable of monitoring its own position and alerting via both graphical and email mean of any detected change in antenna position. The tolerance at which to send alerts shall be	Software will help to identify the correct position of the receiver and will notify user if there will be any change. Request you to kindly make this optional on hardware.	No Change

	user configurable depending upon the solution type in use		
18	Scope of Work & Additional Terms and Condition, Section II/Hardware and software Requirements /DGNSS Receiver, on page no. 18 4. Minimum tracking elevation =0 degree 5. Practical tracking elevation < 3 degree	Both the statements are contradicting to each other. Request you to kindly remove point no. 5	Removed; point no: 5 Practical tracking elevation < 3 degree
19	Scope of Work & Additional Terms and Condition Section II/Hardware and software Requirements /Design and architecture of software , on page no. 22 Allows the Network RTK solution to be valid even outside the polygon of reference stations up to 20km	Network RTK solutions will work 3-5km buffer zone beyond this limit single base line solution will work up to 30-35km. Request you to kindly amend the clause.	Allows the network RTK solution to be valid even outside the polygon of reference stations up to 5 km
20	Scope of Work & Additional Terms and Condition Section II/Hardware and software Requirements /DGNSS Rover Hardware , Point No-1 on page no. 23 Multi frequency handheld portable DGNSS rover should at least support GPS L1,L2,L5 and GLONASS L1, L2 in network RTK solution environment	As per specification, department has intension to buy pole solution so remove the handheld word. Request you to kindly amend the clause as per requirement.	Multi frequency pole Mounted portable DGNSS rover should at least support GPS L1,L2,L5 and GLONASS L1, L2 in network RTK solution environment
21	Scope of Work & Additional Terms and Condition Section II/Hardware and software Requirements /DGNSS Software , on page no. 23 The software package must offer to distribute make the following data available to user and /or administrators in the field	Request you to kindly remove this clause.	It is needed in software package. No changes

	<p>using mobile apps for Apple iOS and Android operated Tablets and mobile phone:</p> <ul style="list-style-type: none"> •Reference station activity including but not limited to: <ol style="list-style-type: none"> 1 Sky-plot 2 Tracked and solved satellites 3 PDOP 4 Remaining residuals of Ionosphere and Tropospheric modelling (Optional) •Data subscription <ol style="list-style-type: none"> 1 Usage of data services 2 Expiry date of subscription 3 Date, time and length of sessions •System Administration <ol style="list-style-type: none"> 1 Software activity and health status 2 Connected users and solution station of RTK users 3 Windows Service operation and remote restart functionality for services 		
22	<p>Scope of Work & Additional Terms and Condition Section II/Warranty on page no. 32</p> <p>Bidder must ensure that the warranty support & service should be available up to delivery locations to provide repairing cum replacement services of faulty equipment within 72 hrs.</p>	<p>We request you to kindly amend the clause as mentioned below: -</p> <p>Bidder must ensure that the warranty support & service should be available up to delivery locations to provide repairing cum replacement services of faulty equipment within 4 days for CORS solution and 7 days for rover and tablet. Bidder is required to provide the name, address & contact details of the authorized service center for providing warranty support & repairing cum replacement service up to delivery locations. (Form no. E-5)</p>	<p>Please refer Query No:2</p>

23	<p>Scope of Work & Additional Terms and Condition Section II/Manpower Requirements : on page no. 33</p> <p>Project Manager (1) Should have an overall experience of 3 years or above and expertise in the field of implementation, administration and maintenances of CORS network.</p>	<p>Request you to kindly amend the clause as mentioned below: - Should have an overall experience of 1 year or above and expertise in the field of implementation, administration and maintenances of CORS network.</p>	No Change
24	<p>Scope of Work & Additional Terms and Conditions Payment terms on page no. 34 Payment for Goods and Services shall be made by Purchasing Department in Indian Rupees as follows: 60% payment of total project value for Successfully Inspection, Delivery hardware / software with accessories at site locations. 20% payment of total project value for All hardware / software with successful Installation, Commissioning, Testing, Analysis and running the system and acceptance of the Department. 10% payment of total project value after providing Successful Training to the department users. 10% payment of total project value divided equally each year in CAMC period of 5 years</p>	<p>Request you to kindly amend the payment terms as mentioned below: -</p> <ol style="list-style-type: none"> 1. Advance payment - 25% of total contract value to kick start the production. 2. 30% against delivery of goods. 3. 30% against installation and testing. 4. 10% against the training. 5. 5% after one month of successful operation of system. 6. Vendor needs to submit the BG of 10% as a performance security. 	No Change
25	<p>Scope of Work & Additional Terms and Condition Section II/Penalty Clause on page no. 35</p>	<p>Request you to kindly amend the clause as mentioned below: -</p>	No Change

	<p>a) If the bidder fails to deliver and install the requisite hardware and software & training within 90 working days from the issue of the confirmed purchase order, then a sum equivalent to one percent (1%) of the total contract value shall be deducted from the payment for each calendar week of delay or part thereof. The amount of penalties for delay in delivery and installation of hardware/software shall be subject to a maximum limit of 10% of the total contract value.</p>	<p>If the bidder fails to deliver and install the requisite hardware and software & training as per timeline from the issue of the confirmed purchase order, then a sum equivalent to one percent (1%) of the supply value shall be deducted from the payment for 30 days of delay or part thereof. The amount of penalties for delay in delivery and installation of hardware/software shall be subject to a maximum limit of 10% of the total contract value.</p>	
26	<p>Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ on board software feature on page no. 38</p> <p>The offered receiver shall be capable of monitoring its own absolute position to centimetre level accuracy and alerting via both graphical and email mean of any detected change in antenna position. The tolerance at which to send alerts shall be user configurable depending upon the solution type in use</p>	<p>Software will help to identify the correct the position of the receiver will notify user if there will be any change. Request you to kindly make this optional on hardware.</p>	No Change
27	<p>Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ Communications on page no. 38</p> <p>Radio Modem Antenna : External Antenna</p>	<p>Request you to kindly remove this clause.</p>	No Change

28	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification on page no. 39 Phase center Repeatability	Request you to kindly define the Phase center Repeatability accuracy as <1mm	It is mentioned in Bid.
29	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ Antenna Cable on page no. 39 Additional 3.0 meter Flexible OEM Cable	Request you to kindly amend this as 1.8m or more	No Change.
30	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification on page no. 39 Radio Power 35 Watt External UHF Radio with Battery and Accessories Enable both function Receiving and Transmitting (Trans receiver)	Request you to kindly remove this clause.	Clause Removed.
31	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ Industrial Grade Dual Mode 4G LTE Modem/Router on page no. 42 Ethernet Ports: 3x LAN Gigabit Ethernet Ports 1 x WAN Gigabit PoE/PoE+ Ethernet Ports	One LAN port is enough as on the field. It is required for GNSS only and one can be spare. WAN is required to provide internet transfer from IP to local access. Ethernet Ports: 2x LAN Gigabit Ethernet Ports 1 x WAN Gigabit PoE/PoE+ Ethernet Ports	No Change.
32	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ Industrial Grade Dual Mode 4G LTE Modem/Router on page no. 42 Upgradable:	Request you to kindly remove this clause.	No Change

	Cellular router should be 5G ready OR should be modular to support upgrade to 5G later (as Department of Telecommunications has given permission for testing of 5G in the country dated 11-05-2021)		
33	<p>Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ System Processing on page no. 47</p> <p>Allows the network RTK solution to be valid even outside the polygon of reference stations up to 30 km</p>	<p>Network RTK solutions will work 3-5km buffer zone beyond this limit single base line solution will work up to 30-35km.</p> <p>Request you to kindly amend the clause.</p>	Allows the network RTK solution to be valid even outside the polygon of reference stations up to 5 km
34	<p>Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ System Processing on page no. 47</p> <p>The following network RTK standard method should be supported:</p> <ul style="list-style-type: none"> • Concept of Virtual reference station (VRS) • MAC (Master Auxiliary concept) • FKP (Flächen Korrektur Parameter) • MRS (Multi reference Station) • MAX/i-MAX(Individualized Master Auxiliary) 	There is no concept like MRS. Request you to kindly remove the same.	Read as: Any of the following network RTK Standard Method should be supported:
35	<p>Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Integrated Rover Receiver feature and Function/ Receiver Tracking Signals on page no. 48</p> <p>NavIC (IRNSS) : L band Constellation</p>	<p>There is no antenna available to track the S-Band signal.</p> <p>No survey grade antenna is available with S-band capacity, request you to kindly remove the same.</p>	It is Preferable. No Change

	(* Additional "S" Band Constellation preferable)		
36	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Integrated Rover Receiver feature and Function/ Tilt Sensor and Function on page no. 48 Yes, Tilted up to 15	Request you to kindly amend this as 15° or more and should be calibration free to save the time and increase the productivity.	15 Degree or more
37	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Integrated Rover Receiver feature and Function/ RAM/Storage on page no. 48 Internal/Removable Storage Capacity: 6 GB or higher	Request you to kindly amend this as 4GB or higher	Internal and Removable Storage capacity should be 4GB and 32 GB or more respectively.
38	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Integrated Rover Receiver feature and Function/ Communication on page no. 49 Communication Protocols: NMEA 0183 CMR, CMR+, RINEX, BINEX, NMEA, RTCM2.x, RTCM 3.x or better	Request you to kindly remove RINEX and BINEX option.	Read as: Communication Protocols: NMEA 0183 CMR, CMR+, NMEA, RTCM2.x, RTCM 3.x or better
39	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Integrated Rover Receiver feature and Function/ Communication on page no. 49 Radio Modem Antenna : Internal or External	Request you to kindly remove this clause.	No Change

40	<p>Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Integrated Rover Receiver feature and Function/ Antenna on page no. 49</p> <p>Rover Specification Radio Power 1 Watt to 5 Watt Enable both function Receiving and Transmitting (Trans receiver)</p>	Request you to kindly remove this clause.	No Change
41	<p>Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Rover Controller feature and Function/ Communication on page no. 49</p> <p>4 inch to 8 inch Integrated Display with Both Hard and Soft Keyboard</p>	Request you to kindly amend this as 4 inch to 8 inch Integrated Display with Hard or Soft or both Keyboard	No Change
42	<p>Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Rover Controller feature and Function/ Communication on page no. 49</p> <p>Keyboard: Full Alphanumeric hard keyboard and virtual keyboard both</p>	Request you to kindly make this clause as optional.	No Change
43	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Rover Controller feature and Function/ Communication on page no. 49	Request to kindly amend this as operating Temperature: Maximum : 55° C	Revised as; operating Temperature: Maximum : 55° C

	operating Temperature: Maximum : 60° C (149° F)		
44	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Rover Controller feature and Function/ Communication on page no. 49 Storage Temperature: Maximum : 75° C (176° F)	Request you to kindly amend it as Storage Temperature: Maximum : 70° C	Revised as; Storage Temperature: Maximum : 70° C
45	Scope of Work & Additional Terms and Condition Section V/Eligibility Criteria page no. 57 Form No. E2: Financial strength of OEM	We request you to kindly consider financial strength / Annual Reports of OEM/Holding companies as our foreign OEM does not publish the financial reports separately. Also, allow to submit OEM undertaking on the Annual Turnover for required financial years along with Holding company Annual Reports.	In case of Foreign OEM, CA/CFO certificate confirming the clause requirement as a proof of turnover is to be submitted.
46	Scope of Work & Additional Terms and Condition MAP(Proposed DGNSS Base Station) on Page No.71	Request you to kindly review the location map as few station have 100% overlaps, in CORS the 20-25% overlapping is enough to provide the correction to rovers.	Selected Bidder will have to prepare feasibility report on tentative locations mentioned in Bid for suitability. Final location map will be based on feasibility report.
47	Section I (Additional Eligibility Evaluation Criteria :) Point 3 page 2 of 71 Bidder must ensure that the warranty support & service should be available up to delivery locations to provide repairing cum replacement services of faulty equipment within 72 hrs. Bidder is required to provide the name, address & contact details of the authorized service center for	Kindly allow 5 working days. Kindly amend.	Please refer Query No:2

	Providing warranty support & repairing cum replacement service up to delivery locations. (Form no. E-5)		
48	<p>Section II General Terms & Condition: Point 10 page 4 of 71</p> <p>The bidder will have to submit Earnest Money Deposit (E.M.D.) of Rs. 1, 04,00,000/- (One Crore Four Lakhs) (Refundable) on or before the last date & hours of submission of bid in a sealed cover at GIL office with the heading "EMD for GeM tender no for Selection of Agency for Supply, Installation/System Integration, Commissioning, Maintenance, Training and Operation of Continuously Operating Reference System (CORS) Network. DGNSS Rover, Controller and Surveying Accessories for updating and Maintenance of GIS based Maps on behalf of Settlement Commissioner and Director of Land Record, Revenue Department, Govt. of Gujarat, Gandhinagar.</p> <p>EMD as mentioned above, shall be submitted in the form of Demand Draft OR in the form of an unconditional Bank Guarantee (which should be valid for 9 months from the last date of bid submission) of any Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative Banks and Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R.</p>	<p>As you are aware that business worldwide including India has been suffering due to COVID19. The situation of this pandemic is still uncertain. Govt. of India has recognized this issue and has exempted EMD vide their notification number No. F.9/4/2020-PPD dated 12.11.2020. Kindly consider this notification and exempt EMD.</p>	No Change

	<p>no. EMD/10/2021/7729/DMO dated 28.06.2021 & dated 12.04.2021 issued by Finance Department or further instruction issued by Finance department time to time; in the name of "Gujarat Informatics Ltd." payable at Gandhinagar (as per prescribed format given at Annexure A) and must be submitted along with the covering letter. Please affix the stamp of your company on the overleaf of demand draft. Note: Failing to submit physical covers of EMD at GIL on or before the last date & time of submission as given in this bid, may lead to the rejection of the bid.</p>		
49	<p>Section II General Terms & Condition: Point 14 page 4 of 71</p> <p>The Successful bidder has to submit Performance Bank Guarantee @ 5 % of total order value within 15 days from the date of issue of Purchase order for the duration of contract period (6 years) + extra 3 months from any Nationalized Bank including the public sector bank or Private Sector Banks or Commercial Banks or Co-Operative Banks and Rural Banks (operating in India having branch at Ahmedabad/ Gandhinagar) as per the G.R. no. EMD/10/2021/7729/DMO dated 28.06.2021 & dated 12.04.2021 issued by Finance Department or further instruction issued by Finance department time to time.</p>	<p>As you are aware that business worldwide including India has been suffering due to COVID19. The situation of this pandemic is still uncertain. Govt. of India has recognized this issue and has relaxed Performance Bank Guarantee (PBG) to maximum 3% vide their notification number No. F.9/4/2020-PPD dated 12.11.2020.</p> <p>Kindly consider this notification and relax PBG to 3% please.</p>	No Change

50	<p>Section II General Terms & Condition: Point 25 page 9 of 71</p> <p>Financial Bid evaluation: The financial bid of those bidders who qualify following stages will only be opened;</p> <ul style="list-style-type: none"> o Qualify in Eligibility Evaluation o Minimum 60% marks (96 marks) out of 160 marks in technical evaluation is required o Minimum 50% marks required for each category of Field Demonstration and overall 24 marks (60%) is required from total 40 marks <p>Financial evaluation will be carried out accordingly to identify the L1 bidder. Selection of L1 bidder: The Criteria for selection will be the lowest cost to the TENDERER i.e. Sum total of all the line items with taxes for the qualified bid. As per GeM, RA will be enabled to arrive Final L1 bidder.</p>	<p>Instead of RA L1, we request you to evaluate financial against these marks. This will ensure that you get best quality product and services.</p>	No Change
51	<p>Section II General Terms & Condition: Point 26 page 9-10 of 71</p> <p>As per the provision in Electronics & IT/ITeS Start-up Policy Resolution No. ITS/10/2015/5284/IT dated 6th June, 2016 issued by Department of Science & Technology or as amended time to time; in e-Governance project undertaken by Government Departments or its Boards, Corporations or parastatal bodies getting grants from the Government, the chosen</p>	Kindly delete.	Please refer Query No:5

	<p>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% of the contract value to the eligible start-ups 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. (No EMD Exemption.)</p>		
52	<p>Section II General Terms & Condition: Point 29 page 10 of 71 Delivery & Installation: Within 90 working days from the date of purchase order at respective site / locations across the Gujarat State. Bidder has to first deliver all required materials at Dindayal Institute of Survey & Revenue Administration, KH-5, Sector-14, Gandhinagar, Gujarat. After that all the materials will be inspected and then the bidder will have to deliver the materials to local offices of Gujarat State. The delivery location details are available at SECTION VIII.</p>	<p>As you are aware that there is huge shortage of components internationally and deliveries of this volume are not possible in 90 days. Minimum time required is 270 days please.</p> <p>Kindly amend.</p>	See the Corrigendum
53	<p>Section II General Terms & Condition: Point 33 page 10 of 71</p> <p>The successful Bidder will be required to coordinate with software vendor and/or do liaisoning with other service provider to achieve the end-to-end connectivity. This also includes OS configuration with respect to LAN/WAN technologies implementation.</p>	<p>Kindly clarify that Department will provide what all H/W and peripherals related to control center?</p> <p>Kindly clarify.</p>	<p>See the Corrigendum & As far as possible, Electrical connection of government office buildings will be used at all prescribed locations. However, if any other building locations, the electrical connection will be provided by the Settlement Commissioner's Office.</p>

	IT infrastructure will be provided by GoG. Therefore, while installing setup bidders need to coordinate with other concern suppliers of IT hardware/software.		
54	Section II General Terms & Condition Bidder must ensure that the warranty support & service should be available up to delivery locations to provide repairing cum replacement services of faulty equipment within 72 hrs.	Same as point 47 above.	Please refer Query No:2
55	Section II General Terms & Condition: Point 41 page 33-34 of 71 Project timeline (3 months) The work schedule for the project is listed in Table below. The total project duration is 3 months: T: LOI acceptance Date 1 Phase 1: Detailed feasibility study and designing T + 15 days 2 Phase 2: Control centre implementation T + 30 days 3 Phase 3: Construction of Monumentation T + 60 days 4 Phase 4: Successfully Inspection, Delivery hardware/software with accessories at site locations. T + 75 days 5 Phase 5: All hardware/software with successful Installation, Commissioning, Testing, Analysis and running the system and acceptance of the Department. T + 85 days	Same as point 52 above	See the Corrigendum

	<p>6 Phase 6: System Training for System Administrator and Field Training T + 90 days</p> <p>7 Warranty for 1 year From the date of Completion of successful installation</p> <p>8 CAMC (Comprehensive Annual Maintenance Contract) for 5 years From the completion of warranty period of 1 year</p>		
56	<p>Section II General Terms & Condition: Point 42 (Payment Terms) Page 34 of 71</p> <p>Payment for Goods and Services shall be made by Purchasing Department in Indian Rupees as follows:</p> <p>60% payment of total project value for Successfully Inspection, Delivery hardware/software with accessories at site locations.</p> <p>20% payment of total project value for All hardware/software with successful Installation, Commissioning, Testing, Analysis and running the system and acceptance of the Department.</p> <p>10% payment of total project value after providing Successful Training to the department users.</p> <p>10% payment of total project value divided equally each year in CAMC period of 5 years</p>	<p>Due to ongoing pandemic COVID 19 the business situations are difficult. Kindly amend Payment Terms as 80% + 10% + 5% + 5% please.</p> <p>Kindly amend as requested please.</p>	<p>No Change.</p> <p>Payment for CAMC period of 5 years: 10% payment of total project value divided equally into 20 quarterly instalments for CAMC period of 5 years</p>
57	<p>Section II General Terms & Conditions: Point No.46.2 (Penalty Clause :) Page 35 of 71</p> <p>Warranty (1 year) and CAMC (5 years) period Penalties:</p>	<p>Same as point 47 above</p>	<p>Please refer Query No:2</p>

	<p>a) If the complaint is not resolved within 72 hrs, the penalty of Rs. 500 per day will be levied.</p> <p>However, if the complaint is not resolved within 7 days then from 8th day till 14th day, the penalty would be levied @ 150% and from 15th day onwards the penalty @ 200% of the above rates would be levied. The amount of penalty will be recovered from the Performance bank guarantee during warranty period.</p> <p>b) The amount of penalty shall be subject to a maximum limit of 10% of the total contract value.</p> <p>c) Successful bidder should submit the Performance Bank Guarantee @ 5% of total order value for the duration of 6 years + extra 3 months as per bid requirements. In any case, bidder is required to maintain 5% PBG at all time during the period of contract</p>		
58	<p>Section IV Page 54 -56 of 71</p> <p>FINANCIAL BID FORMAT (GEM) 5 Years CAMC of Accesses Batteries, Charger, Pole, Bipod, Cable</p>	<p>Kindly exclude consumable items from CAMC. Kindly exempt.</p>	No Change
59	<p>Page 1 of GeM Tender Notice</p> <p>Bid to RA enabled: Yes</p>	<p>Same as point 50 above.</p>	No Change
61	<p>Receiver Tracking Signals:</p> <p>Multiple frequency and supporting the following simultaneous signal tracking:</p>	<p>Request to remove S band reference</p>	It is preferable. No Change

	<p>-GPS: L1C/A;L1P;L2C/A;L2P;L5 -GLONASS: L1C/A;L1P;L2C/A;L2P;L3 CDMA -GALILEO: E1; E5A; E5B and E5AltBOC; E6 -BeiDou: B1; B2; B3 -SBAS: L1C/A;L5;GAGAN -NavIC (IRNSS) : L band Constellation (* Additional S band Constellation preferable)</p>		
62	<p>Number of Channels: The offered receiver shall have 350 or higher physical channels *(a.400 to 450 b. 451 to 550 c. 550 or more)</p>	Request to amend this to 330 and above channels	No Change.
63	<p>On Board Software features:</p> <ul style="list-style-type: none"> ▪ Support the configurable input, output and logging of Met/Tilt measurement, web interface for full control, configuration and access management of receiver and firmware upgrading, secure Access via HTTPS, support IP Filtering ▪ control security, Support FTP downloads as well as the FTP Push command, NTRIP Caster, NTRIP Client and NTRIP Server functionality ▪ The offered receiver shall be capable of monitoring its own absolute position to centimetre level accuracy and alerting via both graphical and email mean of any detected change in antenna position. The tolerance at which to send alerts shall be user configurable depending upon the solution type in use. 	Request department to either remove Met / tilt sensor or tell us the brand which brand and model Met / tilt sensor department is using	Department requires a system which supports Met/Tilt sensors with web interface

	<ul style="list-style-type: none"> ▪ The receiver shall support email alerts for various functions such as tracking, power, reboots, logging, status, etc. ▪ The receiver shall support dynamic domain name system (DDNS) ▪ A minimum of 6 unique TCP/IP ports. Unique meaning one multicast TCP/IP port (allows multiple connection) only count as 1 TCP/IP port. Each port must be fully configurable independent of the other ports and outputs. ▪ In addition to the 6 TCP/IP ports, the receiver shall support a minimum of 1 NTRIP Caster, 1 NTRIP Client, and 1 NTRIP Server ports. ▪ The Receiver must support IP filtering restricting IP packet access to and from the receiver for enhanced access control security based on individual IP addresses or subnets based on a user specified netmask. 		
64	<p>User Interfaces:</p> <p>The offered receiver must be configurable in the field through front panel LCD style display or similar attachment with same OEM and Ingress protection with sufficient buttons to facilitate such configuration.</p>	Request you to consider LED display for all the functions	LCD/LED both are acceptable.
65	Scope of Work & Additional Terms and Condition Section III/Minimum Technical Specification/ DGNSS Integrated Rover Receiver feature and Function/ Communication on page no. 49	Request you to remove CMR+, BINEX	Please refer Query No:38

	<p>Communication Protocols: CMR,CMR+,RINEX,BINEX,NMEA RTCM2.x, RTCM 3.x or Better, Proprietary message Types will be considered in Additional to (not in replace of) the above mentioned formats.</p>		
66	<p>Battery: Power Source: Internal/Removable rechargeable Battery, Chemistry of Battery: Li-ion, Ni-MH, Lead Acid, SMF Capacity of Battery : 3.6 V -100V (3000 and above) Battery Backup Time: 10-72 Hrs. Number of Batteries Required for operation : 1 Number of Batteries to be supplied: 2 or higher</p>	<p>Request you to consider higher capacity upto 12000mah</p>	<p>3000 MAH and above</p>
67	<p>Receiver Antenna:</p>	<p>External</p>	<p>No Change</p>
68	<p>Radio Power 35 Watt External UHF Radio with Battery and Accessories Enable both function Receiving and Transmitting (Trans receiver)</p>	<p>Request you to consider 30W external UHF instead of 35 Watt</p>	<p>This clause is removed.</p>
69	<p>Civil and Electrical works: (Monumentation)</p> <p>Design, quality and specifications of reference pillars should generally meet UNAVCO guidelines for Ground Mount or Roof Mount on suitability at a particular</p>	<p>Request to remove SECO brand any allow any brand with similar specifications</p>	<p>Revised as; Design, quality and specifications of reference pillars should generally meet UNAVCO guidelines for Ground Mount or Roof Mount on suitability at a particular station as decided by the SC&DLR,</p>

<p>station as decided by the SC&DLR, General design of monument is shared drawing in RFP as below</p> <p>(a) Ground Mount pillar pedestal of 1.25 m X 1.25 m should be 1 to 3 m below ground level depending on soil type. Type A: pedestal of 1.25 m X 1.25 m with thickness 25 cm should be constructed over EGL. Dimension of pillar above pedestal will be 25 cm. X 25 cm. Height of pillar of reference station should be at least 2.25 meter above ground level. Above it 0.5 meter steel pipe of 3.5 inch dia, fitted with SECO antenna mount should be fitted for proper levelling of antenna plane. Reference station pedestal, footing and pillar should be a RCC structure with M30 grade concrete and reinforcement grade Fe500. Appropriate reinforcement should be provided. The RCC structure design with detail drawing of pedestal (designed to support enclosure) should be submitted by bidder for approval by purchaser.</p> <p>(b) Roof Mount pillar pedestal should be 1.25 m. X 1.25 m. with thickness 25 cm. Dimension of pillar above pedestal will be 25 cm. X 25 cm. height of pillar of reference station should be at least 1.7 meter above roof top. Above it 0.5 meter steel pipe of 3.5 inch dia, fitted with SECO antenna mount should be fitted for proper levelling of antenna plane. Reference station pedestal and pillar should be a RCC</p>		<p>General design of monument is shared drawing in RFP as below</p> <p>(a) Ground Mount pillar pedestal of 1.25 m X 1.25 m should be 1 to 3 m below ground level depending on soil type. Type A: pedestal of 1.25 m X 1.25 m with thickness 25 cm should be constructed over EGL. Dimension of pillar above pedestal will be 25 cm. X 25 cm. Height of pillar of reference station should be at least 2.25 meter above ground level. Above it 0.5 meter steel pipe of 3.5 inch dia, fitted with SECO or equivalent Specification antenna mount should be fitted for proper levelling of antenna plane. Reference station pedestal, footing and pillar should be a RCC structure with M30 grade concrete and reinforcement grade Fe500. Appropriate reinforcement should be provided. The RCC structure design with detail drawing of pedestal (designed to support enclosure) should be submitted by bidder for approval by purchaser.</p> <p>(b) Roof Mount pillar pedestal should be 1.25 m. X 1.25 m. with thickness 25 cm. Dimension of pillar above pedestal will be 25 cm. X 25 cm. height of pillar of reference station should be at least 1.7 meter above roof top. Above it 0.5 meter steel pipe of 3.5 inch dia, fitted with SECO or equivalent Specification antenna mount should be</p>
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<p>structure with M30 grade concrete and reinforcement grade Fe500. Roof mounted should be property anchored to building structure.</p> <p>(c) The reference pillar and equipment housing should be fenced with a hot dip galvanized iron fencing with one door lock and key. All equipment except antenna redome, and solar panels should be encased in antistatic, weather proof, temper proof steel housing of NEMA 4 type enclosure or Heavy duty robust enclosure to be installed. Housing shall have door on front to accesses equipment for maintenance etc. access through door shall be restricted by bolt secured by lock. Steel housing shall have internal fan to facilitate proper ventilation and temperature control of electronic component within. Enclosure shall be installed on a separate pedestal. The design with detail drawing of pedestal (designed to support the enclosure) should be submitted by bidder for approval by the purchaser All electrical works (including Earthing) at reference station site for installing all components including power back-up</p>		<p>fitted for proper levelling of antenna plane. Reference station pedestal and pillar should be a RCC structure with M30 grade concrete and reinforcement grade Fe500. Roof mounted should be property anchored to building structure.</p> <p>(c) The reference pillar and equipment housing should be fenced with a hot dip galvanized iron fencing with one door lock and key. All equipment except antenna redome, and solar panels should be encased in antistatic, weather proof, temper proof steel housing of NEMA 4 type enclosure or Heavy duty robust enclosure to be installed. Housing shall have door on front to accesses equipment for maintenance etc. access through door shall be restricted by bolt secured by lock. Steel housing shall have internal fan to facilitate proper ventilation and temperature control of electronic component within. Enclosure shall be installed on a separate pedestal. The design with detail drawing of pedestal (designed to support the enclosure) should be submitted by bidder for approval by the purchaser all electrical works (including Earthing) at reference station site for installing all components including power back-up</p>
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70	<p>Accessories: Surge protectors for Modem/ Routers/ ADSL/ Broadband connection, Cellular internet connection, AC power supply connection and Solar Panel power connection, AC/DC power cables, Batteries, Connectors, Circuit Breakers, Rack mounting Kit, Antenna adaptor and SECO antenna mount 3.5"OD (as per "UNAVCO" specs), industry grade flash and SD cards, battery chargers, fuses, inlet and exhaust Fans and filters, end clamps etc.</p>	Request to remove SECO brand any allow any brand with similar specifications	<p>Revised as; Surge protectors for Modem/ Routers/ ADSL/ Broadband connection, Cellular internet connection, AC power supply connection and Solar Panel power connection, AC/DC power cables, Batteries, Connectors, Circuit Breakers, Rack mounting Kit, Antenna adaptor and SECO or equivalent Specification antenna mount 3.5"OD (as per "UNAVCO" specs), industry grade flash and SD cards, battery chargers, fuses, inlet and exhaust Fans and filters, end clamps etc.</p>
71	<p>Application operating Platform: Windows 64 bit X64 Server</p>	Request to consider Windows or Linux operating platform	See the Corrigendum
72	<p>Graphical User-interface:</p> <ul style="list-style-type: none"> ▪ The client application shall have a "graphical user interface" with typical Windows TM look and feel that controls the server. It should be able to be installed on remote PC's as well as on the server. ▪ Easy to learn and use self-explanatory panels, boxes, windows, toolbars. ▪ Map views must include background map for a better visibility of the network. ▪ Graphical UI with drop-down menus for better configuration and organization of system setup in UI and to select receiver 	Request to consider Windows or Linux operating platform	See the Corrigendum

	<p>hardware type, antenna type, tectonic plate and datum per station.</p> <ul style="list-style-type: none"> ▪ Software must run independently from the GUI and software must run as a Windows service. ▪ The software must provide user interface providing access for a complete redundant system installation over all servers used within the setup. It shall provide health status information on the functionality of the software as well as on the underlying services. The administrator should be able to restart services through this user interface. 		
73	<p>Web interface:</p> <p>The Software shall include a web server part to provide:</p> <ul style="list-style-type: none"> • Management and control of end users access: <ul style="list-style-type: none"> ▪ Clients can register online ▪ Once the registration is accepted by the administrator, ▪ Client can access the web server services according to their specific authorization ▪ The software shall allow the customer billing and management of costs. ▪ The software shall allow the downloading of RINEX file and Visual RINEX files. Data should be available for downloading at least for three months from date of observation. After which data will be m 	Request to consider Windows or Linux operating platform	See the Corrigendum

	<p>ade available for download through FTP server.</p> <ul style="list-style-type: none"> ▪ The software shall provide online post processing service by using network reference stations. 		
74	<p>Controls GNSS receiver, remotely and directly:</p> <ul style="list-style-type: none"> ▪ i) The GNSS software shall poll the receivers through an active connection and stream raw data as well as download data files without any interaction on local RTK and DGPS data that may be transmitted from Base stations to RTK rovers ▪ Remote firmware upgrades of the receivers must be possible using the software ▪ Streaming raw data from remote server shall be done either via: <ul style="list-style-type: none"> 1). Binary Raw data 2). RTCM 2.x v3.x ▪ Communication between the server and the reference station receivers must have the flexibility to operate as: <ul style="list-style-type: none"> a). Internet, intranet, LAN/WAN (TCP/IP) or b). Mobile Cellular GPRS or Wireless technology using RTCM standard NTRIP Protocol 	<p>Request to remove</p> <p>i) The GNSS software shall poll the receivers through an active connection and stream raw data as well as download data files without any interaction on local RTK and DGPS data that may be transmitted from Base stations to RTK rovers</p>	<ul style="list-style-type: none"> ▪ i) Deleted. ▪ Rest of the requirements retained (continued)
75	<p>Generates event log, alarms and warning on receiver status:</p>	<p>Request you to allow bidder to propose operating system and database</p>	<p>See the Corrigendum.</p>

	<p>Network status and data quality status. The GNSS software shall perform the system monitoring and data control:</p> <ul style="list-style-type: none"> ▪ Monitors the various communication links and the operation of the entire system ▪ Records critical events in the system SQL database and Windows event log. <p>Checks the completeness of all data downloaded from the base station receivers</p>		
76	<p>System Processing:</p> <ul style="list-style-type: none"> ▪ The GNSS software shall computes in real-time a global adjustment of the network for best estimation of all GNSS errors. ▪ GNSS software must be able to perform the independent calculation of reference station absolute and global positions using PPP method or any other equivalent method and comparison with given reference station coordinates. Any inconsistency should be notified to the operator, according to alarm configuration. ▪ Allows the network RTK solution to be valid even outside the polygon of reference stations up to 30 km ▪ The software must be capable to operate and process network-RTK corrections for reference stations, as desired in list of goods and delivery schedule, on one single standard industrial server within on single instance/process of the 	Request to remove PPP and also remove mac, FKP...	Please refer Query No:34

<p>software and within one module with scalability option 100 to 150 reference station. The software must be capable to supporting 2000 rover simultaneously on one single standard industrial server within one single instance/ process of the software and within one module.</p> <ul style="list-style-type: none">▪ The software must be capable to send GLONASS, BeiDou and GALILEO corrections in case of multi-constellation-capable receivers are not deployed on all reference stations. The bidder shall explain the used methodology for this solution.▪ The GNSS software shall generate different type of corrections to allow different kind of services.▪ Network-RTK corrections of the following satellite systems, frequencies and signals: GPS (Navstar), GLONASS, GALILEO, BeiDou and NavIC (all together)▪ Single RTK corrections from nearest station (required user's position via NMEA string)▪ All real time corrections shall be given in the international recognized standard called RTCM. RTCM messages in various version 2.x and 3.x only are allowed. Any deviation to this standard is not recommended.▪ The following network RTK standard method should be supported:		
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	<ul style="list-style-type: none"> • Concept of Virtual reference station (VRS) • MAC (Master Auxiliary concept) • FKP (Flächen Korrektur Parameter) • MRS (Multi reference Station) <p>MAX/i-MAX(<i>Individualized Master Auxiliary</i>)</p>		
77	<p>Bid Details:</p> <p>Item Category</p>	<p>Since the scope of the project includes the combination of Electronic products, IIT solutions, Communication technologies as well as System Integration Services, besides after Project management for 6 years and given the size of the project, please allow Consortium of multiple companies to fulfil the technical/commercial aspects of the bid.</p>	No Change
78	<p>Bid Details:</p>	<p>Please allow Consortium for the bidder to meet minimum bid criteria.</p>	No Change
79	<p>Bid Details:</p> <p>Minimum Average Annual Turnover of the Bidder should be 2600 Lakhs</p>	<p>Please allow Minimum Average turnover of the bidder as 20 Crores (2000 Lakhs)</p>	No Change
80	<p>Bid Details:</p> <p>OEM Average Turnover (Last 3 Years) should be 20800 Lakh</p>	<p>Please reduce the OEM average turnover as 100 Lakhs in last 3 years</p>	No Change
81	<p>Bid Details:</p> <p>Years of Past Experience required is 3 years</p>	<p>Bidder or its OEM should have minimum 3 years of past experience</p>	No Change
82	<p>Bid Details:</p> <p>EMD of 1.04 Crore</p>	<p>Request you to consider accepting EMD in form of BG</p> <p>EMD should be acceptable in form of declaration as per Govt circular, which is followed by all government departments</p>	<p>As per Scope of Work & Additional Terms and Conditions</p> <p>(EMD shall be submitted in the form of Demand Draft OR in the form of an unconditional Bank Guarantee</p>

83	Bid Details: Reverse Auction	Request you to consider QCBS evaluation criteria instead of Reverse Auction	No Change
84	Section III Minimum Technical Specification : Radio Power : 35 Watt External UHF Radio with Battery and Accessories Enable both function Receiving and Transmitting (Trans Receiver	Kindly delete this Clause as WPC License is required to import the external Radios. Also such Licence must be provided by you along with your order. Also where ever GSM network is not available survey can be performed in PPK/STATIC MODE	Please refer Query No:30
85	Eligibility Evaluation Criteria : Point The Bidder/OEM/OEM Subsidiary should have experience of supply/installations and maintenance of minimum 3 sites/CORS projects with at least 30 CORS Base Stations cumulatively in last 5 years as on bid submission Date (Form no.E-4)	Please do not amend this Clause as we will submit experience Certificate of our OEM for supply/installations and maintenance of minimum 3 sites/CORS projects with at least 30 CORS Base Stations cumulatively in last 5 years as on bid submission date.	No Change
86	DELIVERY PERIOD:: 90 Days.	Please extend the Delivery Period to 200 Days or more.	Please refer Query No:7
87	EMD: EMD of (Rupees One Crore Four Lakhs)	Kindly consider EMD as Rs.50,00,000/- (Rupees fifty lakh only) which 1% of Bid Value	No Change
88	PAYMENT TERMS:	Please amend to read as follows: <ul style="list-style-type: none"> ▪ 85% payment of total project value for successfully Inspection, Delivery hardware/software with accessories with successful Installation, Commissioning, Testing , Analysis and running the system and acceptance at site locations of the Department. ▪ 10% payment of total project value after providing Successful Training to the Department users. 	No Change

		<ul style="list-style-type: none"> ▪ 5% payment of total Project value divided equally each year in CAMC period of 5 years. 	
89	Other:	During demo please allow us to bring only one CORS with all accessories including Router and one Rover as it is not economically viable to import more than one CORS Station just for a demo.	Please refer demonstration criteria of the bid