

**Clarifications of Queries of Tender for “Selection of System Integrator for setting up of a Command and Control Centre with centralized information dashboard and automated Checkposts” for the office of the Commissioner of Geology and Mining (CGM), Government of Gujarat**

**Tender no. SW18082018169**

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
1.	Vol 2 - 90	Helpdesk System	It' just mentioned helpdesk system. To run an efficient help desk it must be ITIL based with 10+ certified process like Request Management, Incident Management, KM, CM etc. Please add more description to help desk in order to propose efficient solution.	<b>Please refer corrigendum.</b>
2.	Vol 2 - 91	Accept Data from a variety of formats, provide pre-configured connectors and adapters, Ability to define Adapters to data source in a visual manner without coding.	Please specify data format and 3rd party apps details which needs to be integrated	No change, as per RFP
3.	Vol 2 - 92	Support real-time reports (like at-a-glance status) as well as historical analysis reports (like Trend, TopN, Capacity planning reports etc.)	Language use like 'at a glance' is specific to an OEM. Our tool can provide historical report and big data-based analytics but the report title may differ. Request to change it to generic ask on reporting.	<b>Please refer corrigendum.</b>
4.	Vol 2 - 90	Generic	We proposed to include Topology based event correlation to get faster RCA in case of failure. This is a large RFP and events must be coming from Varsity of different sources. Having Topology based event correlation can help NOC team to response issue much faster	No change, as per RFP

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5.	Vol 2 - 90	Generic	<p>To ensure MSI proposes a robust EMS solution which monitors the performance parameters of the smart services to citizens, it's imperative that the proposed EMS should have the following capabilities:</p> <ul style="list-style-type: none"> <li>Centralized and Unified Dashboard</li> <li>Server Fault &amp; Performance Monitoring</li> <li>Network Fault Management</li> <li>Network Performance Management</li> <li>Network Flow Traffic Monitoring</li> <li>Network Automation</li> <li>Service Management (Help Desk) and SLA Management</li> <li>Service Level Reporting</li> <li>Asset and Inventory Management</li> <li>Auto-Discovery and Inventory</li> <li>Role-Based access control</li> <li>Application Performance monitoring</li> <li>Performance Load Testing SW for web based and mobile apps</li> </ul>	No change, as per RFP
6.	Vol 2 - 90	Generic	<p>Proposed EMS/NMS solution must be ISO 27001 certified to ensure security compliances. EMS should be a secured solution... hence this certification should be tagged to EMS to ensure there are no lapse in terms of security.</p>	No change, as per RFP
7.	Vol 2 - 90	Generic	<p>Proposed EMS/NMS solution must be an industry standard, enterprise grade solution recognized by leading analysts. A proven and scalable solution is required to manage the scale of IT Infra of a city... it should be recognized by some leading analyst to ensure that the citizens have a positive experience towards the services offered under smart city.</p>	No change, as per RFP
8.	Vol 2 - 90	Generic	<p>Proposed EMS/NMS solution must be among the top 10 market share vendors globally. Substantiate with the relevant document/report. The EMS solution proposed by the SI should be enterprise grade and it should be used and accepted globally... basically a proven and a scalable solution is required to manage the IT Infra to a scale of a smart city</p>	No change, as per RFP
9.	Vol 2 - 90	Generic	<p>Proposed Helpdesk must be ITIL Gold level certified on at least 10+ processes. Helpdesk tool should be verified and proven... hence to manage the load of incidents and tickets across the city... it should be a scalable and a robust solution and it should at least have 10 processes certified on Gold Level.</p>	No change, as per RFP

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10.	Vol 2 - 90	Generic	It must have been ensured, proper security procedure is followed at development level as well to avoid any security flaw in future for EMS, proposed EMS solution must support ISO 27001 standard	No change, as per RFP
11.	Vol 2 - 70	<p>1. SI to do performance and load testing. On performance parameters such as transaction response time, throughput, and page loading etc.</p> <p>2. Load and stress testing of the Project to be performed on business transaction volume</p> <p>3. Performance testing to be carried out in the exact same architecture that would be set up for production.</p>	What is the expected volume of users for the Web & Mobile App? And if the volume is significant (since it would be used by majorly by the residents) - then what is the Performance testing approach bidder should undertake in order to meet the SLA's?	No change, as per RFP
12.	Vol 2 - 70	<p>1. SI to do performance and load testing. On performance parameters such as transaction response time, throughput, and page loading etc.</p> <p>2. Load and stress testing of the Project to be performed on business transaction volume</p> <p>3. Performance testing to be carried out in the exact same architecture that would be set up for production.</p>	Is it recommended that the MSI chooses an Enterprise grade commercial tool that can scale to the mentioned heavy loads that the application is supposed to withstand?	No change, as per RFP
13.	31	Identity and Access Management – including user authentication, authorisation, SSL & Digital Signatures	How many numbers of named users to be considered for Identity & Access Management?	<b>Please refer corrigendum.</b>
14.	91	A centralized monitoring solution for all IT assets	How many assets needs to be considered? Assets consist of Servers, Desktop, Laptops. Do we consider Mobile devices as well in digital assets, is yes kindly quantify the number of units	No change, as per RFP
15.	31	Identity and access management User/administrator audit log activity (logon, user creation, date-time of PA announcements, voice recording etc.) Secured data storage (storage of video/image/voice/location/data captured by various smart elements)	How many numbers of devices to be considered for Privilege Account Management (PAM) solution to keep track of all administrator's activity	No change, as per RFP

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16.	35	The CCC should provide very high and stringent levels of security for servers, internet, web contents, databases based on authorization and authentication of user groups based on their roles, access levels and permissions. The software should support multi dimension access control such that with users have ability to accesses multiple sites/domains using single-sign-on (should be able to support LDAP).	Do you prefer single SSO solution for web based & thick client applications or do you recommend us to provide for 2 different SSO's, one for web based & other for thick client applications	No change, as per RFP
17.	31	Identity and access management User/administrator audit log activity (logon, user creation, date-time of PA announcements, voice recording etc.) Secured data storage (storage of video/image/voice/location/data captured by various smart elements)	Do you prefer proposed solution to video recordings of administrators activity	No change, as per RFP
18.	56	Various users should have access to the system using single sign on and should be role based. Different roles which could be defined (to be finalized at the stage of SRD) could be Administrator, Supervisor, Officer, Operator, etc. Apart from role-based access, the system should also be able to define access based on location.	Do you prefer self-service password reset to minimize the cost of operations	No change, as per RFP
19.	31	Identity and access management User/administrator audit log activity (logon, user creation, date-time of PA announcements, voice recording etc.) Secured data storage (storage of video/image/voice/location/data captured by various smart elements)	Do we provide for group policy administrator to manage roles with tight security in SSO	No change, as per RFP
20.	31	Identity and access management User/administrator audit log activity (logon, user creation, date-time of PA announcements, voice recording etc.) Secured data storage (storage of video/image/voice/location/data captured by various smart elements)	Do you want an advance authentication framework which can integrate with any technology of solutions provided by SI for all current future requirements	No change, as per RFP

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21.	99	<p>The software shall be primarily used to back up all the data.</p> <ul style="list-style-type: none"> <li>· Scheduled unattended backup using policy-based management for all Server and OS platforms</li> <li>· The software should support on-line backup and restore of various applications and Databases</li> <li>· The backup software should be capable of having multiple back-up sessions simultaneously</li> <li>· The backup software should support different types of backup such as Full back up, Incremental back up, Differential back up, Selective back up, Point in Time back up and Progressive Incremental back up and snapshots</li> <li>· The backup software should support different types of user interface such as GUI, Web-based interface</li> </ul>	<p>Backup software to be quantified in terms of front-end capacity to prepare the BOQ</p> <p>Application, OS, Dbase details to be provided which needs to be backed up</p>	No change, as per RFP
22.	4.7 Layer 2: 24 Port Managed Switch at CCC/Page 87	Management	please remove OOB as console port is sufficient for L2 switches, console port can be used for this feature	<b>Please read as “Should support remote management functionality using CLI(SSH)/Web UI(SSL), SNMP (v1, v2, v3), TFTP etc.”</b>
23.	4.7 Layer 2: 24 Port Managed Switch at CCC/Page 87	Throughput	please increase switch capacity to 120gb/s or more for wire rate performance, this should be bare minimum to ensure that there is no performance degradation	No change, as per RFP
24.	Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC/ Page 87	Ports	<p>Please specify 1g fiber or copper ports for checkpost please remove one 4X10G as 4X10G is sufficient for uplink and is standard for all vendors</p> <p>Change clause to--&gt; For Checkpost -20 X1G (fiber or copper?) + 4 X10 G uplink ports</p>	<b>Please refer corrigendum</b>
25.	Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC/ Page 87	Throughput	Please increase switch capacity to 120gb/s or more for wire rate performance, this should be bare minimum to ensure that there is no performance degradation	No change, as per RFP
26.	Layer 3: 24 port Switch (Aggregation Switch) For	Protocols	Please specify advance layer 3 protocols like ospf, PIM, BGP as it is bare minimum for a Layer 3 switch to support these features	No change, as per RFP

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	Check post and CCC/ Page 87			
27.	8 port Managed outdoor L2 switch (Edge Level) with Fibre port/Page 88	Throughput	please change to 20gbps or more for wire rate performance, this should be bare minimum to ensure that there is no performance degradation	No change, as per RFP
28.	8 port Managed outdoor L2 switch (Edge Level) with Fibre port/Page 88	Operating Temperature	please change to 0 to 45 as it is industry standard and most vendors support this	No change, as per RFP
29.	General	General	Specs for core switch is not mentioned, please clarify if core switch is required or not	<b>Please refer corrigendum</b>
30.	General	General	Specs for Wireless Controller is not mentioned, please	No change, as per RFP
31.	General	General	Specs for PBX to have agent receive calls is not mentioned	No change, as per RFP
32.	4.19 Blade Server with Chassis / Pg. 96	RAID support: As per requirement/solution.	Is there any specific requirement of RAID support required? RAID0/1/5/10	<b>Please refer corrigendum</b>
33.	4.19 Blade Server with Chassis / Pg. 96	Operating System: Licensed latest version of Linux/ Microsoft® Windows based Operating system)	Is there any specific requirement of Linux/Windows OS compatibility with the application?	No change, as per RFP
34.	4.19 Blade Server with Chassis / Pg. 96	Form Factor: Blade	Is blade form factor mandatory or we can consider blade/rack server?	No change, as per RFP
35.	4.19 Blade Server with Chassis / Pg. 96	Virtualization: To be provided with Industry standard virtualization hypervisor like Hyper-V, VMWARE, Oracle VM and required number of virtualization licenses based on the sizing	Which virtualizations are supported by the applications? - Hyper-V / VmWare / KVM / OVM	No change, as per RFP
36.	4.19 Blade Server with Chassis / Pg. 96	Network interface: 1 X Dual-port 8G HBA cards for providing Storage connectivity	We recommend to with 16Gbps HBA cards since it will provide better throughput as well as longer support.	No change, as per RFP
37.	4.20 Storage (Primary and Secondary)	General	What will be the usable capacity of storage required? Requirement of IOPS is any?	No change, as per RFP
38.	4.20 Storage (Primary and Secondary)	General	What will be the protocols required to be supported by storage?	No change, as per RFP
39.	4.20 Storage (Primary and Secondary)	General	On which RAID level, usable capacity has to be provisioned?	Minimum capacity of 30 TB is required.
40.	4.20 Storage (Primary and Secondary)	Controllers	What is the number of ports required per controller? We recommend to with 16Gbps FC per port throughput.	No change, as per RFP

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41.	4.11 RDBMS Licenses / Pg. 89	Bidder needs to provide Licensed RDBMS, enterprise/full version as required for the proposed system and following all standard industry norms for performance, data security, authentication and database shall be exportable in to XML.	Please share application compatibility with DB - MySQL / MS-SQL / IBM DB2 / Oracle / PostGre SQL?	The bidder shall have to propose the database management system as per the compatibility of the proposed solution of the bidder
42.	4.11 RDBMS Licenses / Pg. 89	Bidder needs to provide Licensed RDBMS, enterprise/full version as required for the proposed system and following all standard industry norms for performance, data security, authentication and database shall be exportable in to XML.	How many DB servers & the number of Cores planned?	The bidder shall have to propose the numbers as per the compatibility of the proposed solution of the bidder and initials sizing
43.	4.11 RDBMS Licenses / Pg. 89	Bidder needs to provide Licensed RDBMS, enterprise/full version as required for the proposed system and following all standard industry norms for performance, data security, authentication and database shall be exportable in to XML.	DB servers are planned on physical or virtual environment?	The bidder shall have to propose the numbers as per the compatibility of the proposed solution of the bidder and initials sizing
44.	4.23 Backup Software	General	Please confirm the backup policy that will be implemented - D2D / D2D2T / Archival / Tape Library needed if any	No change, as per RFP
45.	General	General	In the whole RFP, there no requirement of SAN switch mentioned, please confirm whether we have to factor SAN switch as well.	No change, as per RFP
46.	Volume 2, 2 Functional requirement, 2.2.7 Security Layer	Identity and Access Management – including user authentication, authorization, SSL & Digital Signatures	Does the ccc application include SSO Feature OR it has to be provided separately, Also provide clarity on additional features required in IDAM.	No change, as per RFP

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47.	10. TECHNICAL-QUALIFICATION – FORMS 10.1. General Instructions for Preparation of the Technical Proposal d. OEM Details	For the application portfolio of all software equipment/components, standing of these Software equipment/components in the IMS/IDC/Gartner/Forrester Reports shall be considered. For Gartner, in the magic quadrant for components/products from OEM appearing in Leaders and Challengers segment must be proposed. During the demo at technical evaluation stage, the Technical Committee will give special attention to verify the quality, robustness and appropriateness of the proposed equipment/components for city conditions. If any brand/product is found un-suitable, bidder may get dis-qualified or may be asked to replace the product with better brands meeting the tender requirements. Without any cost implication or change s in commercial bid.	Gartner Reports having below disclaimer in all NMS Reports: 'Magic Quadrant for Network Performance Monitoring and Diagnostics' - "© 2018 Gartner, Inc. and/or its Affiliates. All Rights Reserved. Gartner does not provide legal advice or services and its research should not be construed or used as such. Gartner shall have no liability for errors, omissions or inadequacies in the information contained herein or for interpretations thereof. The opinions expressed herein are subject to change without notice". IDC also has such similar disclaimer.  In view of the above, we request you to remove the requirement of Applications OEMs recognized by leading analysts like Gartner etc, this will limit the competition and favor to specific OEM only. We request you to make it a level playing field for products which is proven for similar requirement.	This clause stands deleted
48.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Server Load balancer specs mention in RFP not pointing anything on Web application security, OWASP TOP 10 Mitigation, Compliance, Web Application vulnerability scanning etc. Are you to go ahead without any application security provision? If you are considering the same need to add below points for application security and Anti-DDoS	No change, as per RFP
49.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	The solution should have dedicated instance of Web application Firewall on existing Server load balancer appliance with 500 Mbps WAF Throughput from day one and scalable to 1 Gbps WAF throughput with a license upgrade for future requirement	No change, as per RFP
50.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Web application firewall should be ICSA certified.	No change, as per RFP
51.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Web application firewall should be ipv6ready logo phase 2 certified	No change, as per RFP
52.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	The WAF should uses a Intelligent Detection advanced machine learning technology for identifying web attacks and minimizing false positives/negatives and deliver next-gen real-time web security.	No change, as per RFP



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53.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Should provide bi-directional protection against sophisticated threats like SQL injection and cross-site scripting and support OWASP application security Methodology.	No change, as per RFP
54.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	The solution should be a Veracode VL4 certified to ensure that software is built using secure development practices	No change, as per RFP
55.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	The Solution should support compliance reporting and support for PCI DSS	No change, as per RFP
56.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Solution should mitigate command injection, Cross-Site request forgery, Cross-site scripting (XSS), dynamic parameter protection, sql injections, Xpath injection protection from day one.	No change, as per RFP
57.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Solution should provide cookie encryption, cookie signing	No change, as per RFP
58.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Solution should provide Web decoding, SOAP message validation, WSDL method limiting.	No change, as per RFP
59.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Solution should have XML firewall capability from day one.	No change, as per RFP
60.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	The solution should be able to detect attempts to abuse non-standard HTTP/HTTPS methods such as TRACE.	No change, as per RFP
61.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	Solution should provide illegal upload and download restrictions	No change, as per RFP
62.	4.21 Server Load Balancer	New points for Web application security integrated with server load balancer	The solution should integrate OEM own web vulnerability systems scanner for fastest time for 0-day vulnerability mitigation by automatically creating virtual patching policies foremost found vulnerability, Web vulnerability scanner and WAF should be from same OEM.	No change, as per RFP
63.	General	General	As RFP not mention any thing on Anti-DDoS solution for protecting complete infrastructure including firewall for Multivector DDoS attacks, should consider below Anti-DDoS Specs.	No change, as per RFP
64.	Vol2, Page 29	CCC shall be a fully integrated, web-based solution that provides seamless incident – response management, collaboration and geo-spatial display.	Requesting to Modify this clause to Web-Based or Thick Client.	No change, as per RFP
65.	Vol II - Point 3.14.3 / Page 73	3.14.3 Key Design Considerations	Kindly confirm that while finalizing the solution architecture for the requirement, policy of Government of India on adoption of open source software issued by DeitY vide F. No. 1(3)/2014-EG II must be adhered.	No change, as per RFP

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66.	Point 1.8.4 / Page 25 Vol II - Point 3.14.3 / Page 73	1.8.4 Specifications and Standards 3.14.3 Key Design Considerations	Kindly confirm if the proposed Server Operating System for all servers shall be Common Criteria EAL4+ certified as security shall be an important aspect. Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	No change, as per RFP
67.	Vol II - Point 3.14.3 / Page 73	3.14.3 Key Design Considerations	Kindly confirm if the OEM Software support shall not restrict the number of support cases/incidents.	No change, as per RFP
68.	Vol II - Point 3.14.3 / Page 73	3.14.3 Key Design Considerations	Please clarify if The Software OEM shall have defined product life cycle and update policies for the all the supplied products.	No change, as per RFP
69.	Vol II - Point 3.14.3 / Page 73	3.14.3 Key Design Considerations	Kindly confirm that the bidder shall propose full use license/subscription of various industry leading middleware software i.e. Integration Server, Application Server, RDBMS etc instead of using any restrictive bundle as part of any Platform. The proposed Platform shall support multiple choices for the middleware software instead of any vendor lock-in.  The Authority shall be able to use these OEM Middleware software i.e. ESB, RDBMS, Application server even if it decides to change or discard the platform/bundle also at a later date.	No change, as per RFP
70.	Vol II - Point 3.14.3 / Page 73	3.14.3 Key Design Considerations	Kindly confirm that various system software proposed as part of an application platform shall be replaceable and should not cause any vendor lock-in. The bidder shall not propose an application platform/bundle which enforces vendor lock-in eg that platform/bundle uses only specific OEM products in that bundle that too with restricted use only for that limited application.  The bidders shall not propose any restricted use lock-in bundles/platforms for the smart city project.	No change, as per RFP
71.	Vol II - Section 1 / Page 7	1 Scope of services of the project: Pt. 4 Capacity Building	Kindly confirm if the Bidder shall propose an OEM Provided Training Modules in Online Learning Mode for system software like Operating System, Virtualization Software, Application Server, ESB etc. for at least 5 users	No change, as per RFP
72.	Vol II - Point 3.14.3 / Page 73	3.14.3 Key Design Considerations	Kindly confirm if the OEM Software license/subscription shall allow the software to be deployed on physical, virtual or cloud-based servers.	No change, as per RFP
73.	Vol I - Point 11.2 / Page 127 Vol II - Point 9 / Page 214	11.2. Detailed BOQ & component wise summary and commercial bid formats / Schedule A Annexure F: List of Products/Solutions Which Requires MAF from OEMs	Kindly specify the Line Item for ESB Line Item in the Software Bill of Material to ensure that the Bidder provides a proper full-use enterprise ESB Product (Just as the way other software line items are specified)	No change, as per RFP

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74.	Vol I - Point 11.2 / Page 127 Vol II - Point 9 / Page 214	11.2. Detailed BOQ & component wise summary and commercial bid formats / Schedule A Annexure F: List of Products/Solutions Which Requires MAF from OEMs	Kindly specify the Line Item for API Management Line Item in the Software Bill of Material to ensure that the Bidder provides a proper full-use enterprise API Management Product (Just as the way other software line items are specified)	No change, as per RFP
75.	Vol I - Point 11.2 / Page 127 Vol II - Point 9 / Page 214	11.2. Detailed BOQ & component wise summary and commercial bid formats / Schedule A Annexure F: List of Products/Solutions Which Requires MAF from OEMs	Kindly specify the Line Item for Business Process Manager & Rules Engine Item in the Software Bill of Material to ensure that the Bidder provides a proper full-use enterprise Business Process Manager & Rules Engine (Just as the way other software line items are specified)	No change, as per RFP
76.	Vol II - Point 3.14.3 / Page 73	3.14.3 Key Design Considerations	While the RFP provides requirements of different applications to integrate with each other using ESB, kindly specify the Generic Technical requirements of the ESB product to enable bidders to propose an Enterprise Integration product instead of adhoc bundled tools or integration mechanisms.	No change, as per RFP
77.	Vol II - Point 1.6 / Page 18	1.6 DR Site on third party (On Cloud) site	Kindly confirm if The DR Cloud Service Provider shall also provide MAF from the OEMs ensuring that enterprise supported software is provisioned on DR cloud.	No change, as per RFP
78.	Vol II - Point 1.6 / Page 18	1.6 DR Site on third party (On Cloud) site	Kindly confirm if The DR Cloud Service Provider shall produce certificate for the formal cloud services agreement with the respective OEMs	No change, as per RFP
79.	Vol II - Section 1 / Page 5 Onwards	1 Scope of services of the project	Kindly confirm if the bidder shall provide an OEM supported comprehensive enterprise Open Source Automation Tool for Configuration management across DC and DR for ease of management and maintenance of entire IT	No change, as per RFP
80.	Vol II - Section 1 / Page 5 Onwards	1 Scope of services of the project	Kindly confirm if the automation tool should be agentless on target , support secure protocol communication between server and target and support creation of the automation script without the need of advanced programming languages or software tools.	No change, as per RFP
81.	Vol II - Section 1 / Page 5 Onwards	1 Scope of services of the project	Kindly confirm if the automation tool should support automation towards the following heterogenous targets commonly used in Smart City DC i.e. *multiple Operating System (RHEL, MS Windows, UNIX, etc) *Physical servers *virtual infrastructure (vSphere, RHV, etc) *network equipment (Cisco, BigSwitch, F5, Arista, etc) *storage appliances etc.	No change, as per RFP

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82.	Vol II - Section 1 / Page 5 Onwards	1 Scope of services of the project	Kindly confirm if the bidder shall deploy the resources for deployment and administration (atleast for important software solution components like Operating System, Virtualization, ESB, API Management etc.) who are trained on formal OEM Training Courses/curriculum as well as certified with formal industry renowned OEM certifications.	No change, as per RFP
83.	Vol 2- Page 209 8. Annexure E- Manpower planning	5. Full Time- on project- Functional Manager – CCC Expert -1 No 4. At least 3 years of experience in implementing CCC software from same OEM, which is offered as part of the bid.	Request to change clause as below: 4. At least 3 years of experience in implementing CCC software.	No change, as per RFP
84.	Vol 2- Page 102 4.27 Indoor Fixed Dome camera with PoE for Surveillance	5. Lens - 3.0 to 9.0 mm or better,	Request to change: Lens - 3-10 /4-9mm or better 4-9 mm is p-ires technology lens, which come in different form factor.	No change, as per RFP
85.	Vol 2- Page 105 4.30 Fixed Box Camera	5. Multi Focal Lens# ≤6 mm to ≥50 mm Lens or better,	Request to change below clause - ≤12 mm to ≥50 mm Lens or better, This will ensure wider participation from reputed OEMs.	No change, as per RFP
86.	Vol 2- Page 106 4.30 Fixed Box Camera	23. Casing NEMA 4X / IP-66 rated & IK 10 rated enclosure for outdoor box/fix camera from the same OEM	Kindly allow below; NEMA 4X / IP-66 rated & IK 10 rated enclosure for outdoor box/fix camera from the same or different OEM. This will ensure wider participation from reputed OEMs.	No change, as per RFP
87.	Vol 2- Page 107 4.31 PTZ Camera	10. Minimum Illumination Colour: 0.05 lux, B/W: 0.05 lux with IR or better	Request to allow for below: 10. Minimum Illumination Colour: 0.07 lux, B/W: 0.05 lux with IR or better	No change, as per RFP
88.	Volume II - 4.18 UTM UTM/Firewall Features - Page 94	Firewall/UTM have the ability to provide Anti-Spam capabilities over SMTP without external solution, devices or hardware modules.	kindly delete this clause for wider participation of OEM  Justification: Anti- Spam feature is already been asked in Email services on page 74. Anti-Spam feature asked in the email services will help protect against the anti-spam. Hence request you to delete the clause from UTM/Firewall specs to avoid duplication	No change, as per RFP
89.	Volume II - 4.18 UTM UTM/Firewall Features - Page 95	Firewall should support integration with Radius, Tacacs+, RSA	Please modify the clause as follows for wider participation of OEM: "Firewall should support integration with Radius"  Justification: TACACS+ is proprietary protocol while RADIUS is an open protocol which is supported by all leading firewall vendors. Hence request a change in the point for larger participation	<b>Read as" Firewall should support integration with Radius, TACACS+"</b>
90.	Volume II - 4.18 UTM High-Availability Features - Page 95	UTM should support Multiple WAN Link load balancing across multiple WAN interfaces using Round Robin, Spill- over or Percentage based methodology.	kindly delete this clause for wider participation of OEM  Justification: Since the links will be terminated on the router.	No change, as per RFP

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			Link load balancing can be configured on the router, hence request to delete the clause	
91.	Volume II - 4.18 UTM High-Availability Features - Page 95	Firewall should support stateful failover of sessions in Active/Standby & Active/Active mode	Please modify the clause as follows for wider participation of OEM: Firewall should support stateful failover of sessions in Active/Standby or Active/Active mode	No change, as per RFP
92.	Volume II - 4.8 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC - Page 87	Layer 3 switch with minimum For Checkpost -20 X1G + 4X10G + 4 X10 G uplink ports	Please clarify if you are asking for 20x1G SFP ports or 20x1G Base-T ports. Ideally, they should be 1G SFP based ports as the termination will happen over fibre only. Please clarify.	<b>Please refer corrigendum</b>
93.	Volume II - 4.8 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC - Page 87	Layer 3 switch with minimum For CCC- 24 X1G + 4X1G uplinks ports	Please clarify if you are asking for 24x1G SFP ports or 24x1G Base-T ports. Ideally, they should be 1G SFP based ports as the termination will happen over fiber only. Please clarify.	<b>Please refer corrigendum</b>
94.	Volume II - 4.9 8 port Managed outdoor L2 switch (Edge Level) with Fibre port Page - 88	New Addition	Request you to add the following clause: "The switch should be IP30 rated"  Justification: Since these switches will be placed in harsh outdoor environment, it is mandatory that the switch is rugged and can withstand harsh environment. Ingress Protection (IP) 30 ensures that the switch is protected against particles that are 2.5mm or above. This is a generic specification which is met by all the leading industrial switch manufacturers and ensures ruggedness of the switch.	No change, as per RFP
95.	Volume II - 4.9 8 port Managed outdoor L2 switch (Edge Level) with Fibre port Page - 88	New Addition	Request you to add the following clause: "The switch should support IEEE 802.1AE"  Justification: Media Access Control Security (MACsec) is an 802.1AE IEEE industry-standard security technology that provides secure communication for all traffic on Ethernet links. MACsec provides point-to-point security on Ethernet links between directly connected nodes and is capable of identifying and preventing most security threats, including denial of service, intrusion, man-in-the-middle, masquerading, passive wiretapping, and playback attacks.	No change, as per RFP
96.	Volume II - 4.14 Indoor Wi-fi Access Point for CCC centre Page - 90	Diagnostics: Real time packet capture on the APs, without disconnecting clients	This is proprietary to one OEM. Request you to please modify this clause as follows to allow fair participation from leading OEMs: "For diagnostics, real time packet capture on the APs should be	<b>Item no. 31/page no. 128-Vol-I "Indoor Wi-Fi Access Point for CCC" stand deleted. This item is not required.</b>

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
			available, without disconnecting clients. Such functionality can also be achieved using external tool"	
97.	Volume II - 4.15 Enterprise Management Systems (EMS) Page - 90	New Addition	<p>This being a critical and important project, it is expected that there would be multiple applications and solution that would be deployed as well as integrated with each other. It is expected from the RFP that these applications, modules should work seamlessly. While there is EMS, NMS tools which are asked in the RFP, it is equally important that an Application performance management/monitoring tool (APM) is asked. Some of the brief functionalities and requirements of the APM should be: - The APM should do performance monitoring of applications in the data centre.</p> <p>-The APM needs to be dynamic, predictive in determine the root cause in case of performance issues, bottleneck at application and end user side. For eg every application would have a web, application (code) and database layer/tier. The APM should monitor and intelligent identify &amp; suggest remedies if there is an error in the code/script causing a performance issue in a dynamic/production environment.</p> <p>-APM should also monitor &amp; manage performance at end user portal and server/application side and be capable of co-relation.</p> <p>-Do crash analytics. -The APM software functionality is to be distinct and separate from the use of EMS or NMS or a SLA tool</p>	No change, as per RFP
98.	Volume II - 4.17 Internet Router Page - 93	Should have console port and an external modem for remote management	<p>Please modify the clause as "Should have console port and support an external modem for remote management"</p> <p>Request you to add the word "Support" as modem will not be required for management (may use SSH, console, web UI etc)</p>	<b>Read as "Should have console port for remote management"</b>
99.	Volume II - 4.19 Blade Server with Chassis; Network interface Page - 96	2 X 10 G ports for providing Network connectivity	<p>Request you to modify the clause for wider participation of leading OEM "2 X 10 G ports or equivalent FCOE ports for providing Network connectivity"</p> <p>Justification: We support Converged network adapter to provide LAN and SAN access over FCOE. Latest generation blade architectures support dual converged modules for IO connectivity for carry Lan and SAN traffic. This helps in simplification, lower cabling, power &amp; cooling without compromising throughput. Adapter level redundancy will provide resiliency against any faults</p>	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
100.	Volume II - 4.19 Blade Server with Chassis; Network interface Page - 96	1 X Dual-port 8G HBA cards for providing Storage connectivity	Request you to modify the clause for wider participation of leading OEM "1 X Dual-port 8G HBA cards or equivalent FCOE ports for providing Storage connectivity"  Justification: We support Converged network adapter to provide LAN and SAN access over FCOE. Latest generation blade architectures support dual converged modules for IO connectivity for carry Lan and SAN traffic. This helps in simplification, lower cabling, power & cooling without compromising throughput. Adapter level redundancy will provide resileicy agaisnt any faults	No change, as per RFP
101.	Section 5.3.6. - A. Bidders/Lead Bidder's Financial Competence - TQ 1 Page 30 of 134 of Volume 1	The sole bidder or (lead bidder in case of consortium) must have minimum aggregate average annual turnover from ICT/ITES businesses of INR 75 crore or more as on bid issuance date will get 70% of total allocated marks.	Kindly revised this clause as "The sole bidder or in case of consortium must have minimum aggregate average annual turnover from ICT/ITES businesses of INR 75 crore or more as on bid issuance date will get 70% of total allocated marks."	<b>Please refer corrigendum</b>
102.	Section 5.3.6. - B. Project Experience of Bidder/Lead Bidder – TQ 2 Page 30 of 134 of Volume 1	The sole /Lead bidder or consortium member should have demonstrable expertise in implementing ICT infrastructure at Toll booths, or entry exit points for a region (country, state, city) or checkpoints in past 3 years from the date of submission of bid	Kindly revised this clause as "The sole /Lead bidder or consortium member should have demonstrable expertise in implementing ICT infrastructure at Toll booths, or entry exit points for a region (country, state, city, Premise) or check posts in past 3 years from the date of submission of bid. We propose if it's been implemented in Mining check posts then it shall be provided additional marks as mining checkpost business requirement is quite different then the toll plaza or general check posts."	<b>Please refer corrigendum</b>
103.	TQ 3 Page no. 31 of 134 of Volume 1	The sole /Lead bidder or consortium member – Executing Large ICT Projects in past 3 years from the date of submission of bid	We propose, there shall be defined that similar project experience for state mining department / Mining PSUs shall be considered or given extra edge. 1. The similar project such as where in Bidder has implemented system for Mining company which consist of RFID based System integrate with CCTV, Boom Barriers, Traffic lights, electronic weighbridges and centralised system. The system shall be operational atleast since last 3 years and project value shall not be less than 5 Cr cumulatively.	<b>Please refer corrigendum</b>
104.	TQ-8 Page no.34 of volume 1	Project Presentation	In Project Presentation weightage shall also be given to RFID enabled check post operations as well.	No change, as per RFP
105.	Additional point	NA	Bidders Mining experience shall be considered, because the project core objective is to use a technology for ease in mining operations. For the same mining experience / process know how is much more required. It shall be considered in Overall all experience.	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
106.	Page no. 97 of 134 of Volume 1	NA	Form no. 9.12 is missing in the sequence for PQ forms. Please clarify.	It is a typographical error.
107.	NA	NA	Form for declaration of Anti-blacklisting is missing in the document. Please clarify.	<b>Form no. 9.11 "PQ_9 Self Declaration Form" includes the anti-blacklisting declaration.</b>
108.	Page no. 55 of 134 of Volume 1	Payment Terms B. Command and Control Center B.1 IT and Non-IT-Infrastructure 40% payment upon successful Delivery and Inspection of IT and Non-IT Infrastructure# #Eligible only after completion of required Civil & Interior works of CCC for respective lots 30% payment upon successful Installation and commissioning of IT and Non-IT-Infrastructure Balance 20% payment after three months of successful completion of FAT and Go-Live	Need clarification for payment terms for this particular. According to current terms, summation of payment terms is coming to 90% only. Please clarify the same.	<b>Please refer corrigendum</b>
109.	Page no. 204 of 214 of Volume 2	Annexure C - Indicative checkpost layout	Given Drawing of Checkposts and other layouts are difficult to interpret. Please provide CAD or readable file format, so that we can have better understanding	This is an indicative layout. Successful bidder shall come out with their own drawings as per the scope and considering the given indication layout.
110.	4.7 Layer 2: 24 Port Managed Switch at CCC Page no. 86 of Volume 2	Flow control: Support IEEE 802.3x flow control for full-duplex mode ports.	Flow control is not being supported by many OEM in Layer 2 switch category and supported Port based network access control for Ethernet interfaces. We suggest to relax the clause like "Should support IEEE802.3x flow control or equivalent" to allow maximum participation.	No change, as per RFP
111.	4.7 Layer 2: 24 Port Managed Switch at CCC Page no. 86 of Volume 2	Protocol: DHCP, NTP, RSTP, MSTP, SNMP (v1, v2, v3) support	Kindly revised this clause as "DHCP, NTP/SNTP, RSTP/MSTP/STP, SNMP (v1, v2, v3) support"	No change, as per RFP
112.	4.7 Layer 2: 24 Port Managed Switch at CCC Page no. 87 of Volume 2	Switch needs to have console port for management via PC Management: Should have a dedicated OOB management port using CLI(SSH), Web UI (SSL), SNMP (v1, v2, v3), TFTP etc.	Kindly revised this clause as "Switch needs to have console port for management via PC. Should have remote management using CLI(SSH), SNMP(v1, v2, v3), TFTP etc."	<b>Please refer query no. 22</b>
113.	4.8 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC Page no. 87 of Volume 2	Ports: For Checkpost -20 X1G + 4X10G + 4 X10 G uplink ports	Kindly revised this clause as "Ports: For Checkpost -20 X1G + 4 X10 G uplink ports"	<b>Please refer corrigendum</b>



#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
114.	4.8 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC Page no. 87 of Volume 2	Flow control: Support IEEE 802.3x flow control for full-duplex mode ports.	Flow control is not being supported by many OEM in Layer 2 switch category and supports "Port based network access control for Ethernet interfaces". We suggest to relax the clause like "Should support IEEE802.3x flow control or equivalent" to allow maximum participation.	No change, as per RFP
115.	4.8 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC Page no. 87 of Volume 2	Protocols: DHCP, NTP, RSTP, MSTP, SNMP (v1, v2, v3) support	Kindly revised this clause as "DHCP, NTP/SNTP, RSTP/MSTP/STP, SNMP (v1, v2, v3) support"	No change, as per RFP
116.	4.8 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC Page no. 87 of Volume 2	Management: Switch needs to have console port for management via PC Should have a dedicated OOB management port using CLI(SSH),Web UI(SSL), SNMP(v1, v2, v3), TFTP etc.	Kindly revised this clause as "Switch needs to have console port for management via PC. Should have remote management using CLI(SSH), SNMP(v1, v2, v3), TFTP etc."	No change, as per RFP
117.	4.9 8 port Managed outdoor L2 switch (Edge Level) with Fiber port Page no. 88 of Volume 2	Total ports: Minimum 8 X 10/100/1000 Base-TX PoE+ ports (Full Duplex), 2x1G SFP Uplink ports.	Kindly revised this clause as "8 X 10/100/1000 Ports out of which minimum 4 ports should support PoE (Full Duplex), 2x1G SFP Uplink ports."	No change, as per RFP
118.	4.9 8 port Managed outdoor L2 switch (Edge Level) with Fiber port Page no. 88 of Volume 2	Protocols: IGMP snooping (v1, v2, v3) and min. 100 multicast groups	Kindly revised this clause as "IGMP snooping (v1, v2, v3)"	No change, as per RFP
119.	4.9 8 port Managed outdoor L2 switch (Edge Level) with Fiber port Page no. 88 of Volume 2	Management: Should have console port for administration & management, CLI and web based GUI for easy management	Kindly revised this clause as "Should have console port for administration & management, CLI based GUI for easy management"	No change, as per RFP
120.	4.17 Internet Router Page no. 93 of Volume 2	Router must support TCP/IP, PPP, Frame Relay, HDLC	PPP, Frame relay, HDLC all are obsolete technologies & it's been not supported by most of the OEM. The revised clause is requested as " Router must support TCP/IP, MPLS form day one".	<b>Please read as "Router must support TCP/IP from day 1"</b>
121.	4.17 Internet Router Page no. 93 of Volume 2	Router should have a dedicated OOB Management port using CLI(SSH), Web UI (SSL), SNMP (v1, v2, v3), TFTP, etc.	Kindly revised this clause as "Router should support remote management using CLI(SSH), SNMP (v1, v2, v3), TFTP, etc."	<b>Please read as "Router should support remote Management using CLI(SSH)/WebUI (SSL), SNMP (v1, v2,v3), TFTP, etc."</b>
122.	4.17 Internet Router Page no. 93 of Volume 2	Should have console port and an external modem for remote management	Dial up or external modem technology is obsolete now. Hence, we request you to revise the clause as "Should have console port".	<b>Please refer query number 98</b>

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
123.	4.42.1 LED Luminaire Controller Technical Specifications Point 4 Page no. 114 Of Volume-2	Radio- 2.4 GHZ, IEEE 802.15.4/ 865-868 KHz	Does it mean out of mentioned 3 RF frequency any on should be there or any 2 should be there? Please clarify	<b>Read as "2.4 GHz or IEEE802.15.4/865-868Khz"</b>
124.	4.42.1 LED Luminaire Controller Technical Specifications Point 4 Page no. 114 Of Volume-2	RF data Rate-250 kbps	As the street light status data will be very limited in 1- 2kb and frequency of data transfer will be very low so why that much data rate is required? Requesting you to please make it upto 2Kbps	No change, as per RFP
125.	4.42.1 LED Luminaire Controller Technical Specifications Point 4 Page no. 114 Of Volume-2	Network type- self forming mesh network Network fault tolerance: Self-healing mesh	As there are limited number of lights to be connected in one location and start network is more reliable instead of mesh network. Also, customer will get more communication distance in star topology Requesting you to please allow for star topology as well.	<b>Please read as "Network type- self forming mesh/Star network Network fault tolerance: Self-healing mesh/Star."</b>
126.	4.42.1 LED Luminaire Controller Technical Specifications Point 4 Page no. 114 Of Volume-2	Hardware -IEEE802.15.4-2003 CSMA-CA algorithm	It is required where Wi-Fi communication is required, here it is not required as per application. Requesting you to please remove this specification	No change, as per RFP
127.	4.42.1 LED Luminaire Controller Technical Specifications Point 6 Page no. 114 Of Volume-2	Surge protection- CAT C	Requesting you to please change clause like-"Surge protection- CAT C or equivalent"	Read as "Surge protection- CAT C/UL 1449 Type 1 or equivalent"
128.	4.42.1 LED Luminaire Controller Technical Specifications Point 9 Page no. 114 Of Volume-2	Certifications- UL773, CE, FCC certified Radio, IEC certified Power Metering	Here required FCC certification is European standard which is not required in India also we are not monitoring individual light power consumption so why IEC power metering is required. Requesting you to make change in this specification as "Certifications- UL, CE"	No change, as per RFP
129.	4.42.1 LED Luminaire Technical Specifications Point 2 Page no. 114 Of Volume-2	Operation mode- ON/OFF/DIM	As dimming is required here so it is recommended to have PWM based dimming 0-10V. Requesting you to please add clause like- Operation mode - ON/OFF/DIM along with 0-10V	No change, as per RFP
130.	9.3. PQ_1 Format of Earnest Money Deposit in the form of Bank Guarantee Page no. 80 Of Volume-1	In response to the Tender no: <b>HWT041215322</b> for Purchase of modems on behalf of Department of Science & Technology, Gandhinagar	We assume that it is a typo error. Please clarify	<b>Please refer corrigendum</b>

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
131.	PQ_8: Experience of Implementing Smart Elements, Civil & CCC Projects Page no. 91 Of Volume-1	Experience of Implementing Smart Elements, Civil & CCC Projects	In the project implementing details of Consortium member, there should be Civil/ construction related field, so that we can mention related details over there.	No change, as per RFP
132.	7. Annexure D- Common guidelines/requirements regarding compliance of systems/ equipment Page no. 207 of Volume-2	<b>Other Smart Elements (ANPR, Parking Sensors, E-weighbridges):</b> Products / Solutions should have been implemented in at least 2 similar projects. Bidder to provide declaration from OEM along with the details of the projects of respective products / solutions are implemented, with following details: City name, Client Name, Duration and Value of the project, Number of sensors implemented etc.	In this clause, it is asked that all OEM should have implementing experience of at least 2 similar projects, we request you to please look into this clause as there are a few OEM available in market for the smart elements with matching these criteria.	No change, as per RFP
133.	TQ-5 Page no. 33 of Volume-1	Sole/Lead bidder should have experience in building or integrating bespoke /other COTS application with CCC software in past 3 years from the date of submission of bid	Technical evaluation criteria and Technical evaluation parameter descriptions do not match with each other's. Please clarify.	<b>Please refer corrigendum</b>
134.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Server Load balancer specs mention in RFP not pointing anything on Web application security, OWASP TOP 10 Mitigation, Compliance, Web Application vulnerability scanning etc... Are you to go ahead without any application security provision? If you are considering the same need to add below points for application security and Anti-DDoS	No change, as per RFP
135.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	The solution should have dedicated instance of Web application Firewall on existing Server load balancer appliance. With 500 Mbps WAF Throughput from day one and scalable to 1 Gbps WAF throughput with an license upgrade for future requirement	No change, as per RFP
136.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Web application firewall should be ICSA certified.	No change, as per RFP
137.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Web application firewall should be ipv6ready logo phase 2 certified	No change, as per RFP
138.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	The WAF should uses a Intelligent Detection advanced machine learning technology for identifying web attacks and minimizing false positives/negatives and deliver next-gen real-time web security.	No change, as per RFP
139.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Should provide bi-directional protection against sophisticated threats like SQL injection and cross-site scripting and support OWASP application security Methodology.	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
140.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	The solution should be a Veracode VL4 certified to ensure that software is built using secure development practices	No change, as per RFP
141.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	The Solution should support compliance reporting and support for PCI DSS	No change, as per RFP
142.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Solution should mitigate command injection, Cross-Site request forgery, Cross-site scripting (XSS), dynamic parameter protection, sql injections, Xpath injection protection from day one.	No change, as per RFP
143.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Solution should provide cookie encryption, cookie signing	No change, as per RFP
144.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Solution should provide Web decoding, SOAP message validation, WSDL method limiting.	No change, as per RFP
145.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Solution should have XML firewall capability from day one.	No change, as per RFP
146.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	The solution should be able to detect attempts to abuse non-standard HTTP/HTTPS methods such as TRACE.	No change, as per RFP
147.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	Solution should provide illegal upload and download restrictions	No change, as per RFP
148.	4.21 Server Load Balancer	New points for Web application security integrated with server loadbalancer	The solution should integrates OEM own web vulnerability systems scanner for fastest time for 0-day vulnerability mitigation by automatically creating virtual patching policies foremost found vulnerability, Web vulnerability scanner and WAF should be from same OEM.	No change, as per RFP
149.		Anti-DDoS Specs	As RFP not mention any thing on Anti-DDoS solution for protecting complete infrastructure including firewall for Multivector DDoS attacks, should consider below Anti-DDoS Specs.	No change, as per RFP
150.			The Solution must be a purpose-built appliance based solution with fully hardened and secured Operating System (OS).	No change, as per RFP
151.			The solution should be deployed either Out-Of-Path (preferred), or inline (with bypass). Must not impede valid network traffic	No change, as per RFP
152.			The solution should support scalable performance through license, and allow the user to upgrade the mitigation capacity without changing the physical hardware	No change, as per RFP
153.			The solution should consists of separate Detector, separate Mitigator and dedicated Management device from day one to support Out-Of-Path deployment. And proof of the same to be available on public datasheet.	No change, as per RFP
154.			The DDOS mitigation devices can work independently when there is any problem happened in the DDOS detector.	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
155.			The solution Detector systems should support netflow v5, netflow v9, sflow v4, sflow v5, netstream v5, netstream v9, ipfix.	No change, as per RFP
156.			OEM Should have their own proactive Threat and research team	No change, as per RFP
157.			The DDoS mitigation device shall support upto 4 X 1 Ge Copper or SFP	No change, as per RFP
158.			The Anti DDoS solution should support copper and Fiber built-in fail-open/fail-close bypass function from day one.	No change, as per RFP
159.			The solution should have at least 1 Gbps of throughput and scalable to 4 Gbps on same device with an additional license upgrade for future requirement.	No change, as per RFP
160.			The solution should support service availability through functions of service monitoring and protection from DDoS traffic	No change, as per RFP
161.			The solution should be stable and not be affected service availability even upon any system fault	No change, as per RFP
162..			The solution should provide in-line mode and Diversion(offramping)/Reinjection(onramping) mode for detecting and protecting DDoS traffic.	No change, as per RFP
163..			The solution should detect any DDoS traffic and mitigate any DDoS attack without interrupt legitimate traffic and customer services.	No change, as per RFP
164..			The solution should provide threat intelligence protection to filter blacklisted IP, malware hashes, malicious web URL Command and control. Whereas Threat Intelligence service from the same Anti-DDoS solution provider and not from third party solution. and Threat intelligence service should provide their own threat intel portal.	No change, as per RFP
165.			The solution should provide user defined signatures.	No change, as per RFP
166..			The solution should support detection and protection of DDoS traffic as below: <ul style="list-style-type: none"> <li>• Multi-protocol support and advanced inspection including TCP/UDP/ICMP/ HTTP/HTTPS/DNS/SIP floods, Amplification attacks (NTP/SSDP/SNMP/DNS/ CHARGEN/Memcached/NetBIOS), fragments floods, connection exhaustion, header manipulation and more</li> </ul>	No change, as per RFP
167.			The Solution should support below DDoS mitigation algorithms for TCP, ICMP and UDP attacks and others, : TCP SYN Source IP Rate Limit <ul style="list-style-type: none"> <li>• TCP SYN Source Bandwidth Limit</li> <li>• TCP SYN Time Sequence Check</li> </ul>	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
			<ul style="list-style-type: none"> <li>• TCP Fragment Control</li> <li>• ICMP Fragment Control</li> <li>• ICMP Traffic Control • TCP Regular Expression Filtering</li> <li>• UDP Regular Expression Filtering, UDP Payload Check</li> <li>• UDP Fragment Control</li> <li>• UDP Packet Length Check</li> <li>• UDP Traffic Control</li> <li>• TCP Watermark Check</li> <li>• UDP Watermark Check</li> <li>• TCP Pattern Matching</li> <li>• UDP Pattern Matching</li> <li>• Protocol ID Check • Anti-spoofing RFC Checks</li> <li>• Black Filter Lists</li> <li>• NTI Black Filter Lists</li> <li>• White Filter Lists</li> <li>• GEOIP Filter Lists</li> <li>• Access Control Lists Filtering Reflection Amplification Rules</li> <li>• Port Check</li> <li>• Connection Exhaustion</li> <li>• URL-ACK Filter Lists</li> </ul>	
168.			<p>The solution should support below DDoS mitigation algorithms for DNS, DNS Keyword Checking</p> <ul style="list-style-type: none"> <li>• DNS Rate-Limiting</li> <li>• DNS TCP-BIT Check</li> <li>• DNS CNAME Check</li> <li>• DNS Retransmission</li> </ul>	No change, as per RFP
169.			<p>The solution should support below DDoS mitigation algorithms for HTTPS/HTTP, HTTP Keyword Checking</p> <ul style="list-style-type: none"> <li>• HTTP Authentication</li> <li>• HTTP Dynamic Script</li> <li>• HTTP FCS Check</li> <li>• HTTP Pattern Matching Check</li> <li>• HTTP Slow Attack Check</li> <li>• IP Behavior Analysis</li> <li>• Trusted Source IP Control</li> <li>• Empty Connection Check</li> <li>• HTTPS SSL Connection Control</li> <li>• HTTPS Authentication</li> <li>• SIP Authentication</li> </ul>	No change, as per RFP
170.			<p>The solution should be able to monitor up to 4096 protection group and customize policy for each protection group.</p>	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
171.			The solution should support protection policy for L3 protocol (IP), L4 protocol (TCP, UDP, ICMP) and should support a function of exclusion for specific network.	No change, as per RFP
172.			The solution should support a function 'protection of Payload pattern' after analysis of Payload of Web, DNS, HTTP, etc.	No change, as per RFP
173.			The solution should support keyword checking to check DNS query keyword such as DNS transaction ID, DNS flags, DNS query name, DNS query type and DNS query class.	No change, as per RFP
174.			The solution should support a DDoS protection function for VoIP(SIP) protocol	No change, as per RFP
175.			The solution should support to protection as a group for several IP addresses.	No change, as per RFP
176.			The system should support IPv4 and IPv6 dual-stack without deteriorating performance, and should be a ipv6ready.org phase2 certification	No change, as per RFP
177.			The solution shall be able to support VLAN traffic reinjection.	No change, as per RFP
178.			The solution shall be able to support MPLS Label traffic reinjection.	No change, as per RFP
179.			The solution should support upstream cloud signalling mechanism to effectively handle volumetric and application based attacks which volumetric in case of multi vector DDoS attacks, whereas cloud scrubbing service should be from same OEM, and organisation can procure this service any time for future requirement.	No change, as per RFP
180.			The proposed DDoS mitigation device shall be able to support high-availability with Active/Active and Active/Passive deployments.	No change, as per RFP
181.			Device (Anti-DDOS) failure detection	No change, as per RFP
182..			Traffic Reinjection Dead Link, gateway and interface detection.	No change, as per RFP
183.			The Solution should support various methods of injecting traffic back to the original destination, these methods should be capable of injecting traffic in layer-2, layer-3 environment.	No change, as per RFP
184.			The solution shall have built-in high availability (HA) features in the following mode: Active-Passive, Active-Active.	No change, as per RFP
185.			The solution shall be able to immediately support both IPv4 and IPv6, and implements dual stack architecture.	No change, as per RFP
186.			The solution shall be able to sync with NTP server.	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
187.			The mitigation solution should support out-of-path deployment which is enabled by dynamic routing protocol such as BGP, OSPF, ISIS.	No change, as per RFP
188.			The Solution shall support policy-based routing (PBR) features, RIP and static Routing.	No change, as per RFP
189.			The solution should be able to extend the Anti-DDoS performance and capacity automatically without additionally manual traffic distribution when new modules are added. The solution should be able to load share the traffic when new modules are added.	No change, as per RFP
190.			Should able to import SSL certificate for HTTPS application-layer protection policy on same device from day one, SSL certificate offload capability within the same mitigation appliance and no other device.	No change, as per RFP
191.			For Layer 7 DDoS attacks, the mitigation solution should support keyword checking to check HTTP keywords such as method, cookie, host, referrer, URL, version, user-agent and x-forwarded-for from day one	No change, as per RFP
192.			The solution must able to support real-time configuration changes without impact to service.	No change, as per RFP
193.			The solution must be able to integrate with existing management system via SNMP version 3 and SNMP version 2	No change, as per RFP
194.			The solution must provide the latest Management Information Base (MIB) file for SNMP operation.	No change, as per RFP
195.			The solution log shall contain the following information: Attack logging User Login logging Operation Activity logging Link Status logging Diversion logging System Performance logging HA logging Traffic Alerts logging DDoS Attack logging Syslog	No change, as per RFP
196.			The solution shall provide the flexibility of performing configuration via GUI and command base remotely.	No change, as per RFP
197.			The solution shall be able to export syslog to existing syslog server and SIEM system.	No change, as per RFP



#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
198.			The solution shall be able to support the following authentication schemes but not limited to: Local Password, RADIUS and TACACS+	No change, as per RFP
199.			The solution should support Layer 7 DDoS detection and mitigation. The mitigation devices should support multiple algorithms for http/https attack protection.	No change, as per RFP
200.			The solution should support the extension based on growth of the network and at least support expansion of mitigation devices up to 25 devices.	No change, as per RFP
201.			The Solution should support Layer 7 DDoS detection and mitigation using captcha challenge, JavaScript authentication, URL authentication, cookie authentication, E-TAG Authentication from day one.	No change, as per RFP
202.			The solution should support the behaviour based and algorithm based DDOS mitigation.	No change, as per RFP
203.			The solution must provide multi-level AntiDDoS mitigation infrastructure. The system must support integration of upstream and downstream AntiDDoS device to mitigate DDoS Attack effectively.	No change, as per RFP
204.			The appliance should provide auto packet capture function during DDoS mitigation.	No change, as per RFP
205.			The solution should provide the traffic AUTO learning function for the DDOS traffic monitoring. The auto learning threshold baseline is captured every hour.	No change, as per RFP
206.			The traffic Auto learning threshold can be apply automatically after auto learning completed.	No change, as per RFP
207.			The solution should provide the multi-level DDOS mitigation policy and different mitigation action based on DDOS traffic type.	No change, as per RFP
208.			The solution should provide the function to monitor the outbound DDOS attack and co-operate with the mitigation platform to block the outbound DDOS attack.	No change, as per RFP
209.			The solution must be able to support netflow v5, netflow v9, sflow v4, sflow v5, netstream v5, netstream v9, ipfix.	No change, as per RFP
210.			The solution should support SNMP v1, v2c and v3 to gather interface traffic information. This information should be displayed on the GUI so that it could be easily compared with the traffic information from Xflow	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
211.			The solution must support double diversion feature that can advertise two BGP diversion prefix under single attack to different devices for mitigation.	No change, as per RFP
212.			The solution must support multiple BGP community tagging for different diversion configuration.	No change, as per RFP
213.			The solution must support BGP traffic diversion based on attack size in terms of pps/bps.	No change, as per RFP
214.			The solution must support auto null route based on attack size in terms of pps/bps.	No change, as per RFP
215.			The Solution should be a Veracode certified.	No change, as per RFP
216.			The solution should be a IPv6ready logo phase 2 certified.	No change, as per RFP
217.			The solution shall support the provisioning of the reports - Attack reports -top sources, targets, attack type etc.	No change, as per RFP
218.			The solution shall support the provisioning of the reports - System reports -security events triggered, User reports -user access activity	No change, as per RFP
219.			The solution shall support report format customization. The solution must be able to generate summary attack report of daily/weekly/monthly.	No change, as per RFP
220.			The solution must be able to send schedule summary attack report of daily/weekly/monthly.	No change, as per RFP
221.			The solution should send the scheduled report based on the customized data, format, and attack reports.	No change, as per RFP
222.			Solution reporting format should support XML, PDF, HTML and Microsoft Word.	No change, as per RFP
223.	Page 13 Volume 1, 3.4, Sub-contracting/ consortium conditions	Sub-contracting/ consortium conditions	<p>Maximum number of <b>consortium members allowed are 2, including consortium lead or prime bidder.</b></p> <p><b>Change Required:</b> Maximum number of consortium members allowed <b>are 3</b>, including consortium lead or prime bidder.</p> <p><b>Suggestion:</b> Number of members in consortium should be increased as only 2 members will not be able to meet all the PQ criteria. 2 companies would not be able to cover construction, CT and ICCG components.</p>	No change, As per RFP
224.	Page 27 PQ 3 Volume 1, 5.1. Eligibility/ Pre-Qualification Criteria	Eligibility/ Pre-Qualification Criteria	<b>Sole/Lead bidder</b> should have: Demonstrable expertise and experience in implementation of at least 1 command and control centre software with integration of at least 2 subsystems– vehicle tracking and management	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
			<p>system (VTMS - AVLS), VMS, ITMS, GIS, ERP, E-Gov applications, Parking sensors, Smart poles, RFID, EWeighbridge and any other ccc relevant smart Application component).</p> <p><b>Change Required:</b>  <b>Sole/Lead bidder or any other consortium member</b> should have:  Demonstrable expertise and experience in implementation of at least 1 command and control centre software with integration of at least 2 subsystems– vehicle tracking and management system (VTMS - AVLS), VMS, ITMS, GIS, ERP, E-Gov applications, Parking sensors, Smart poles, RFID, EWeighbridge and any other ccc relevant smart Application component).</p> <p><b>Suggestion:</b> This criteria should not be restricted to the lead bidder only. Any member of the consortium (including lead bidder) can fulfill this criteria.</p>	
225.	Page 28 PQ 6 Volume 1, 5.1. Eligibility/ Pre-Qualification Criteria	Eligibility/ Pre-Qualification Criteria	<p><b>The bidder (The Sole bidder or the lead bidder in the case of consortium)</b> should have an aggregate turnover of minimum INR 5 Cr. from Smart Elements Projects (#) for last 3 audited financial years (2015-16, and 2016-17, 2017-18). (#) Bidder should have experience in either of the following elements or projects which are integral part of the project viz. CCC, CCTV Cameras, ANPR solution, E-weighbridge, RFID, (readers and tags), iPoles, Parking sensors, and Smart LED lights.</p> <p><b>Change Required:</b>  <b>The bidder (The Sole bidder or the lead bidder in the case of consortium) or any other consortium member</b> should have an aggregate turnover of minimum INR 5 Cr. from Smart Elements Projects (#) for last 3 audited financial years (2015- 16, and 2016-17, 2017-18). (#) Bidder should have experience in either of the following elements or projects which are integral part of the project viz. CCC, CCTV Cameras, ANPR solution, E-weighbridge, RFID, (readers and tags), iPoles, Parking sensors, and Smart LED lights.</p> <p><b>Suggestion:</b>  This criteria should not be restricted to the lead bidder only. Any member of the consortium (including lead bidder) can fulfill this criteria as the scope of work is too broad.</p>	No change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
226.	Vol I, PQ3,Page-27	Demonstrable expertise and experience in implementation of at least 1 command and control centre software with integration of at least 2 subsystems – vehicle tracking and management system (VTMS - AVLS), VMS, ITMS, GIS, ERP, E-Gov applications, Parking sensors, Smart poles, RFID, EWeighbridge and any other ccc relevant smart Application component).	Experience of Command & control center software is not a complete term in the context of VTS, GIS, RFID, E-weighbridge applications as these applications gets integrated to produce desired results, we request you to modify as "Demonstrable expertise and experience in implementation of at least 1 command and control centre software/Integrated application software with integration of at least 2 subsystems etc....	No Change, as per RFP
227.	Vol I, PQ6,Page-28	The bidder (The Sole bidder or the lead bidder in the case of consortium) should have an aggregate turnover of minimum INR 5 Cr. from Smart Elements Projects (#) for last 3 audited financial years (2015-16, and 2016-17, 2017-18). Bidder should have experience in either of the following elements or projects which are integral part of the project viz. CCC, CCTV Cameras, ANPR solution, E-weighbridge, RFID, (readers and tags), iPoles, Parking sensors, and Smart LED lights.	We hope reason of putting these criteria is to check the amount of similar work done by the prospective bidder in the last 3 years, hence request you to include Data center experience, VTS, GIS, applications Implementation as well.	No Change, as per RFP
228.	Vol I, TQ2, Page-31	The bidder (lead bidder in case of consortium) having experience of at least one completed ICT project/s in Toll booth or Checkposts will get 70% of total allocated marks. For every additional project the bidder (lead bidder in case of consortium) will get additional 10% of total allocated marks.	We request you to consider expertise of implementing no. of Entry/Exit Point instead projects as no. of Entry/Exit points implementation will showcase experience of bidder in implementing & managing multiple site solution.	<b>Please refer corrigendum</b>
229.	Vol I, TQ4, Page-32	The sole /Lead bidder or consortium member should have experience in construction of Checkposts/ Commercial complex/ Industrial Complex/ Institutional Building Projects in past 3 years from the date of submission of bid	We request you to consider expertise of constructing no. of CheckPost/Toll booth instead projects as no. of CheckPost/Toll booth Constructed by a bidder will act as a better experience credential.	<b>Please refer corrigendum</b>
230.	Vol I, 5.5, Page 36	The method of evaluation for successful bidder will be QCBS- Quality cum Cost Based Selection. Wherein 60 % weightage will be awarded for Technical Evaluation and 40 % weightage will be awarded for Financial Evaluation	We hereby request you to consider Least cost based selection (LCBS)-L1 Criteria, wherein you can ask each bidder to achieve minimum qualifying marks of 70% in technical proposal & only those bidders will qualify for financial bid opening who will score 70% marks in technical criteria.	No Change, as per RFP

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231.	Vol I,6.2, Page40	Total liquidated damages to be levied on the SI shall be capped at 10% of the total contract value. Liquidated damages to be levied shall be capped at 10% of the CAPEX value during Pre-Implementation period and at 10% of the OPEX value during Post-Implementation period. However, the office of the CGM would have right to invoke termination of the contract in case the overall liquidated damages equals 10% of total contract value.	We here by request for capping of Penalty @ 10% of the undelivered portion of the equipment and/or services. Please clarify that LD/penalty shall be the sole and exclusive remedy. This obligation shall not apply to delays arising from actions or inactions of the Purchaser or any third party. Payment of liquidated damages under the agreement shall be in full and final satisfaction of all claims and liabilities arising from lateness or defective performance.	<b>Agreed, PI read this as below:</b> "Total liquidated damages to be levied on the SI shall be capped at 10% of contract value of undelivered portion. Liquidated damages to be levied shall be capped at 10% of CAPEX value of delayed/ undelivered portion during Pre-Implementation period and at 10% of the OPEX value during Post-Implementation period. However, the office of the CGM would have right to invoke termination of the contract in case the overall liquidated damages equals 10% of total contract value.
232.	Vol I,Go Live Criteria,Page 57	The office of the CGM will release the payment within 60 days of submission of valid invoice subject to the condition that invoice and all supporting documents produced are in order and work is performed to the satisfaction of the office of the CGM.	We hereby request you to release payment within 30 days of submission of valid invoice, further "to the satisfaction" should be replaced with "as per SLA & SOW".	No Change, as per RFP
233.	Vol I,8.14.2,Page 68	Termination for Convenience: CGM by written notice sent to the SI, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination for Convenience: CGM by written notice sent to the SI, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination	This clause will act as a major deterrent for major bidders as building an infrastructure as per RFP ask is an investment. Terminating it as per the convenience of department is a huge risk which none of the serious bidder will take. We request you to remove this clause.	<b>This clause stands deleted.</b>
234.	Vol, 8.24,Page 72	In no event shall either party be liable for any indirect, incidental, consequential, special or punitive loss or damage including but not limited to loss of profits or revenue, loss of data, even if the party shall have been advised of the possibility thereof. In any case, the aggregate liability of the bidder, whatsoever and howsoever arising, whether under the contract, tort or other legal theory, shall not exceed the total charges received as per the Contract, as of	The total liability of SI, regardless of the form of claims, is restricted to and shall be limited to charges payable by Customer to SI within the remaining duration of the contract term from the day the claim is received and SI is not responsible for any third party claims. Neither Party; nor its subsidiaries or its affiliates will be liable to the other Party, whether in contract, tort (including negligence), strict liability or otherwise, for loss of business, revenue, profits, loss of goodwill or reputation; or indirect, consequential, or special loss, arising in connection with any order, product, service, related documentation, information and/or the intended use thereof, even if a Party has	No Change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
		the date such liability arose, from the Purchaser, with respect to the goods or services supplied under this Agreement, which gives rise to the liability.	been advised, knew or should have known of the possibility of such damages. Hence request you to amend the clause to incorporate points.	
235.	Vol I,Section 7,Page 54	PROJECT TIMELINES, MILESTONES & PAYMENT SCHEDULES	As per sr. no.1 Signing of Contract is superseding work order, hence request you to consider subsequent timelines from the date of signing of Contract. Generally, we understand that during the Contract finalization there will be certain changes required to capture the mutual understandings, the terms used will be harmonized and made uniform to bring consistency in the final Contract documentation and amendments/ clarifications including changes mutually agreed will be addressed wherever relevant in the different documents/ clauses. Hence please confirm that the EMD will not be forfeited during the process of contract finalization. Also, please confirm when the EMD shall be returned to successful Bidder?	No Change, as per RFP
236.	Volume II, Point - 1.1, 3, d, Page-6	Establishment of LAN and WAN connectivity, electrical cabling along with required materials at Command and Control Centre, check post locations limited to scope of infrastructure procured for the project	Please confirm if the main electrical tapping point for the entire load in the CCC building will be provided by CGM	<b>Yes, CGM will provide</b>
237.	Volume II, Point - 1.1, 3, d, Page-6	Establishment of LAN and WAN connectivity, electrical cabling along with required materials at Command and Control Centre, check post locations limited to scope of infrastructure procured for the project	Please confirm required documents & assistance for applying electrical tapping for Check post will be provided by CGM also please confirm if the connection needs to be registered in CGM's name?	CGM may provide assistance wherever required for securing the respective permissions. However, the liability of initiating and obtaining the permission shall be of the successful bidder
238.	Volume II, Point - 1.4 Page-12	Design, Supply, Installation and commissioning, Maintenance of IT Infrastructure at CCC, DC & Check posts	Please confirm if Data Center at Gandhinagar is ready from all respect i.e. Power, Space and Cooling perspective to host IT equipment. Only IT equipment are supposed to be provided.	Physical structure shall be provided by CGM, however the cooling and other infra provisioning for proportionate DC size shall be done by bidder
239.	Volume II, Point - 1.4 Page-12	Design, Supply, Installation and Commissioning, Maintenance of IT Infrastructure at CCC, DC & Check posts	Please confirm if Data Center at Gandhinagar is ready from all respect i.e. Power, Space and Cooling perspective to host IT equipment & Power cabling, LAN cabling & OFC cabling is the responsibility of CGM?	Power and space shall be provided, cooling, racks, cabling, OFC (if required), LAN etc. are in the scope of the successful bidder. Proportionate sizing shall be done by successful bidder
240.	Volume II, Point - 1.4 Page-12	Design, Supply, Installation and Commissioning, Maintenance of IT Infrastructure at CCC, DC & Check posts	Please confirm if Data Center at Gandhinagar there is no requirement of Server Racks to be provided?	Server racks are required as per the sizing done by the successful bidder

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
241.	Volume II, Point - 1.4 Page-16	Data Centre, CCC, check posts are as under: <b>n.</b> Other DC Non-IT infrastructure, such as UPS, AC (Cooling), Fire Suppression, VEDSA, Rodent Control, Building Management System, DG Sets etc.	Please confirm if the data center is to be prepared by the SI. What is the area (city) of DC?	It is in the scope of the successful bidder. Total available area is 10,000 Sq. ft. however for DC 100 Sq. ft. area is planned.
242.	Volume II, Point - 1.4 Page-16	Data Centre, CCC, check posts are as under: <b>n.</b> Other DC Non-IT infrastructure, such as UPS, AC (Cooling), Fire Suppression, VEDSA, Rodent Control, Building Management System, DG Sets etc.	Please confirm if the data center is to be prepared by the SI. on which floor the data center is to be constructed?	No Change, as per RFP
243.	Volume II, Point - 1.4 Page-16	Data Centre, CCC, check posts are as under: <b>n.</b> Other DC Non-IT infrastructure, such as UPS, AC (Cooling), Fire Suppression, VEDSA, Rodent Control, Building Management System, DG Sets etc.	Please confirm if the data center is to be prepared by the SI. Who will provision for the electrical tapping point for the data center and capacity of the electrical power to the DC?	Raw power shall be provided by CGM; however, it shall be the responsibility of the successful bidder to do necessary works in order to operationalize the data centre
244.	Volume II, 1.7 & 6.1 Page - 19 & 204	1.7.1 Scope of Work for Construction of Automated Check Posts at Seven Locations & 6.1 Indicative checkpost concept layout drawing	Please confirm number of floors required, rooms required on each floor, size of the rooms etc. Also the layout provided on Page - 204 is not clearly visible please help in providing clear drawing in AutoCAD format if possible	This is an indicative layout. Successful bidder shall come out with their own drawings as per the scope and considering the given indication layout.
245.	Volume II, 1.7 Civil and NON –IT components scope, Page - 20	Site Survey The SI shall carry out surveys and investigations after the award of contract, to complete the data required for implementation of the project.	Please allow to do a site survey with the help of CGM before bidding so that exact nature work can be ascertained	The bidder is welcomed to do a pre-survey, given the written permission is obtained from the office of CGM. The CAD design will be shared with the successful bidder. However, for information and the pdf version for the indicative layout has been shared in the bid document.
246.	Volume II, 1.7.2 b. External Development & Landscaping including internal roads & pavements, smart lights, water supply, sewerage facility, drainage network, rain water harvesting well etc. Page - 22	Landscape - Landscape over open land area including all horticulture operation, earth filling, grassing, tree plantation etc. as per Drawing and Technical Specification	Please confirm us the area in acres/sq. mtrs which to be developed with basic plan/layout	Pl refer Sr. no. 241
247.	Volume II, 1.7.2 b. External Development & Landscaping including	Covered Inspection Shed	The layout provided on Page - 204 is not clearly visible please help in providing clear drawing in AutoCAD format if possible	The cad design shall be shared with the successful bidder. However, for information and the pdf version for

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
	internal roads & pavements, smart lights, water supply, sewerage facility, drainage network, rain water harvesting well etc. Page -53 & 204			the indicative layout has been shared in the bid document.
248.	Volume II, 2 Functional requirements, 2.1.1 Objectives Page - 22	The Command and Control Centre would be located at CGM office, Gandhinagar.	Please confirm 1) On which floor CCC will be made available 2) What is the area of CCC to be developed 3) Please provide present floor layout of the CCC for reference in AUTOCAD format if possible	Pl refer Sr. no. 241
249.	Volume I, Schedule A- CapEX – Command and Control Center & Check post Page - 127	Diesel Generator	Please confirm Diesel Generator for CCC will be provided by CGM	Yes, Diesel Generator for CCC will be provided by CGM
250.	Volume II, 2.5.4 Automated Check Post facilities – Details Page - 53	Power Back up – DG set	Please confirm diesel refilling for the DG set will be whose responsibility	It shall be the responsibility of the successful bidder to ensure that the refilling of diesel in the DG set is done on regular basis ensuring smooth operations. The cost of refilling of diesel will be reimbursed by CGM as per the actual bills provided by the successful bidder.
251.	Volume II, 4.24 10U Rack Cabinets Page - 99	10U Rack Cabinets	Please confirm if these are floor standing racks or wall mounted racks	<b>Please refer corrigendum</b>
252.	Volume II, 4.24 10U Rack Cabinets Page - 99	Maximum Width - 560.00 mm Maximum Depth - 620.00 mm	Maximum width and depth requested in the RFP are non-standard. Request you to please consider and change the same to standard 600mm x 600mm (width x depth)	<b>Please refer corrigendum</b>
253.	Volume II, 4.36 Poles for Camera Page - 110	Pole diameter	Please confirm the diameter of the pole required and also confirm number of sections required i.e. 2 or 3 sections.	The bidder has to do the due diligence and suggest the pole diameter as per the proposed solution
254.	Volume II, 5.3 Specification for MEP, Plants / Equipment and landscaping Page - 182	Serial 132 - 125 KVA DG AMF Panel:	Please confirm 125KVA DG AMF panel is required at all the locations i.e. DC, CCC & check posts	Only at check post



#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
255.	Volume II, 5.6 Aspirating Smoke Detector System Page - 194	5.6 Aspirating Smoke Detector System	Please confirm "Aspirating Smoke Detector System" is to be installed at Check posts & CCC both or only at CCC? If both then at Check post which all rooms to be covered?	Only at CCC including the DC area
256.	Volume II, 5.7 Water leak detection System Page - 195	5.7 Water leak detection System	Please confirm "Water leak detection System" is to be installed at Check posts & CCC both or only at CCC? If both then at Check post which all rooms to be covered?	Only at CCC including the DC area
257.	Volume II, 5.8 Access Control System Page - 196	5.8 Access Control System	Please confirm "Access Control System" is to be installed at Check posts & CCC both or only at CCC? If both then at Check post which all rooms to be covered?	Only at CCC including the DC area
258.	Volume II, 5.9 Rodent Repellent Page - 197	5.9 Rodent Repellent	Please confirm "Rodent Repellent" is to be installed at Check posts & CCC both or only at CCC? If both then at Check post which all rooms to be covered?	Only at CCC including the DC area
259.	Volume II, 5.10 Fire Suppression System Page - 198	5.10 Fire Suppression System	Please confirm CCC which all rooms to be covered with "Fire Suppression System"	Only at CCC including the DC area
260.	Volume II, 4.22 Server/Networking Rack Page - 98	Power Distribution Units - 2 per Rack	Please confirm where these racks will be installed and power tapping points for these racks will be provided by CGM	Raw power shall be provided by CGM; however, it shall be the responsibility of the successful bidder to do necessary works in order to operationalize the data centre
261.	Volume-1, Point-40 Server Load Balancer Page 61	Server Load Balancer requirement: 1	As we are having redundant architecture. Hence you are requested please take the Server Load Balancer in redundant (Qty.2).	<b>Please refer corrigendum.</b>
262.	Volume-1, Point-7 : Penalty Clause Page 56	If the penalty amount exceeds to the quarterly O&M amount payable to the SI for any year, then the O&M amount will not be paid to the SI and the excess amount shall be deducted or charged from the PBG provided by the SI.	Request for capping on the Penalty clause.	Please refer clause 6.4, page 41 of volume 1 of the RFP. The maximum penalty cap is 10% of the OPEX value for each quarter
263.	Volume-1, Point 57: DR Infra Page 129	DR Infra-Cloud based with minimum interruption or downtime (approx. 30% replica of DC) - only for critical services like video, RFID, weighbridge	In Volume II, Page 19 Point 8 It is mentioned DR should be 100% replica in terms of compute power of the smart DC compute Power. Kindly clarify that how much % of replica of compute & Infra is required.	<b>Volume-I/ Point no. 57/page no 129-DR Infra will prevail over volume-II/Point no. 8/Page no. 19</b>
264.	Volume II, Point 4: Specification of Storage Page 57	The System shall support H.24 or better, MPEG-4 and MJPEG compression formats for all analog cameras connected to	Are we already using some analog Camera? Kindly Clarify.	No cameras used at present.

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
		encoders and all IP cameras connected to the system.		
265.	Volume II, Point 4: Specification of ANPR Page 63	The system shall detect the colour of all vehicles in the camera view during daytime and label them as per the predefined list of configured system colours. The system will store the colour information of each vehicle along with the license plate information for each transaction in the database	How many predefined colors we need to provide? Kindly Clarify.	Colours available by leading industry manufacturers should be available
266.	Volume II, Point 8: Annexure E- Manpower planning Page 209	5. Full Time- on project- Functional Manager – CCC Expert -1 No 4. At least 3 years of experience in implementing CCC software from same OEM, which is offered as part of the bid.	Request to change clause as below: 4. At least 3 years of experience in implementing CCC software.	<b>Please read as “4. At least 3 years of experience in implementing CCC software”</b>
267.	3.4. Sub-contracting/ consortium conditions / Pgeno . 13 of 134	3.4.3. Maximum number of consortium members allowed are 2, including consortium lead or prime bidder.	Looking to the tender scope and multiple activities asked in tender as well format "9.7. PQ_5: Bidder's and Consortium Members' Overall Annual Turnover", we understand that total 4 consortium members are allowed in this tender, Please confirm.  If our understanding as above are wrong, we herewith request you to please allow atleast 4 consortium members including prime member in this tender since you have asked multiple activities in this tender like IT Infrastructure, Building Construction, ITMS solutions, DC & DR activities etc. demands experience & expertise for the said critical project. Allowing will not only deliver best of the best solution & services but will also benefited by getting best possible costing & better participation.	No Change, as per RFP
268.	5. SECTION 5: EVALUATION PROCESS - Page no. 27 of 134	Sole/ Lead Bidder or any consortium member (in case of consortium) should have – Demonstrable expertise in Construction – Should have implemented one of the following projects(#) during last three (3) years prior to the stipulated date for submission of bid.(#) – Construction of Check posts, Toll booths, Commercial complexes/ Industrial complexes/Institutional Building Projects	We would like to mention here that in this tender you have asked multiple activities like CCC Infrastructure built up, Building of check posts, CCC Operation, centralized information dashboard, DC-DR infrastructure ICT Components -such as CCTV Cameras, ANPR Solution, e-Weighbridges, Parking sensors, Smart Lights, RFID Readers, Various Sensors, and Displays etc, this ALL are more of IT based solutions but to be a lead bidder, the vendor is required to have Demonstrable expertise in Construction field only. This would restrict the lead participation from capable bidders who can execute the project successfully. We hereby request you to kindly allow the said experience from any consortium partner, so that any capable and interested vendor can form the consortium and participate in this tender.	No Change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
269.	5. SECTION 5: EVALUATION PROCESS - Page no. 27 of 134	Sole/Lead bidder should have · Demonstrable expertise and experience in implementation of at least 1 command and control centre software with integration of at least 2 subsystems – vehicle tracking and management system (VTMS - AVLS), VMS, ITMS, GIS, ERP, E-Gov applications, Parking sensors, Smart poles, RFID, Weighbridge and any other ccc relevant smart Application component). · Any such project should have been executed in the last three (3) years from the date of submission of bid	In this reference, we would like to mention here that in this tender you have asked multiple activities like CCC Infrastructure built up, Building of check posts, CCC Operation, centralized information dashboard, DC-DR infrastructure ICT Components - such as CCTV Cameras, ANPR Solution, Weighbridges, Parking sensors, Smart Lights, RFID Readers, Various Sensors, and Displays etc, but you have asked the lead bidder to have Demonstrable expertise in implementation of CCC software.  We hereby request you to kindly allow the said experience from any consortium partner, so that any capable and interested vendor can form the consortium and participate in this tender.  This would restrict the lead participation from capable bidders who can execute the project successfully.	No Change, as per RFP
270.	Volume 2; Page 102; Clause 4.27 (Dome Camera)	Colour: 0.5 lux/f.12, B/W: 0.05 lux/f.12	Recommend starlight illumination for better performance. Color: 0.002lux@ (F1.6, AGC ON) B/W: 0.0002lux@ (F1.6, AGC ON); 0lux with IR	No Change, as per RFP
271.	Volume 2; Page 105; Clause 4.30 (BOX Camera)	30 FPS or better at full resolution	To achieve better ANPR accuracy the FPS should be minimum 60 fps. Request modify the clause as under 1920 x 1080 @ 60fps (2 Megapixel)	No Change, as per RFP
272.	Volume 2; Page 106; Clause 4.31 (PTZ camera)	Min. 25 fps @1080P	Recommend higher FPS to provide high accuracy. Request modify the clause as under 1920 x 1080 @ 60fps (2 Megapixel)	No Change, as per RFP
273.		5.2 ~ 104 mm Varifocal, IR Corrected	Recommend higher optic Zoom capability to provide for increased depth of view for distant approaching objects resulting in enhanced surveillance. We request you to kindly modify the lens range to 4.5 mm to 135mm.	No Change, as per RFP
274.	27	Details of such projects undertaken along with clients' completion certification/letter.	Ongoing projects should also be considered	No Change, as per RFP
275.	31	The bidder (lead bidder in case of consortium) having experience of at least one completed ICT project/s in Tollbooth or Checkposts will get 70% of total allocated marks.	Consortium partner experience should also be considered	<b>Please refer corrigendum.</b>
276.	31	The bidder (lead bidder in case of consortium) having experience of at least one completed ICT project/s in Tollbooth or Checkposts will get 70% of total allocated marks.	Other civil or ICT projects should also be considered	<b>Please refer corrigendum.</b>

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
277.	33	The Sole/Lead bidder having experience of one completed project that entails development of integrated IT solution/s (dashboard creation fetching/processing data from different systems which could be either bespoke application or COTS products using web services) involving all the phases of SDLC (Software Development Life Cycle will get 70% of total allocated marks	Consortium partner experience should also be considered	<b>Please refer corrigendum.</b>
278.	33	The Sole/Lead bidder having experience of one completed project that entails development of integrated IT solution/s (dashboard creation fetching/processing data from different systems which could be either bespoke application or COTS products using web services) involving all the phases of SDLC (Software Development Life Cycle)	Experience of other application/products on different models should also be accepted	<b>Please refer corrigendum.</b>
279.	33	Completion certificates along with certified documents as per the requirements. (Items of PO and completion certificates must match)	Ongoing projects should also be considered	No Change, as per RFP
280.	36	Overall Bid Evaluation and Comparison of Bids. Wherein 60 % weightage will be awarded for Technical Evaluation and 40 % weightage will be awarded for Financial Evaluation	Technical weightage of 60% is too high and not as per industry standard. This will increase the bidding prices of bidders	No Change, as per RFP
281.	Volume 1 ; Page 207 ; Clause 7, 7.1(A), 7.1(B)	Networking Equipment: OEMs who are amongst the top 5 for World-wide Market share in terms of Revenue as per latest IDC report OR OEM present in the Gartner Magic Quadrant for Wired & Wireless LAN Access Infrastructure, March 2017.	OEMs who are amongst the top 5 for World-wide Market share in terms of Revenue as per latest IDC report OR OEM present in the Gartner Magic Quadrant for Wired & Wireless LAN Access Infrastructure, March 2017. OR OEM should have a valid ISO 9001 & ISO 14001 certification on the date of opening of bid"	No Change, as per RFP
282.	Volume 2 ; Page 86 ; Clause 4.7.2 Layer 2: 24 Port Managed Switch at CCC	MAC: 8 K or more	MAC: 16 K or more	No Change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
283.	Volume 2 ; Page 87 ; Clause 4.7.9 Layer 2: 24 Port Managed Switch at CCC	Throughput: Should have minimum switching capacity of 30 Gbps.	Throughput: Should have minimum switching capacity of 128 Gbps.	No Change, as per RFP
284.	Volume 2 ; Page 87 ; Clause 4.8.2 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC	Throughput: Should have minimum switching capacity of 40 Gbps.	Throughput: Should have minimum switching capacity of 128 Gbps.	No Change, as per RFP
285.	Volume 2 ; Page 87 ; Clause 4.8.3 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC	MAC: Minimum 8K or more	MAC: Minimum 16K or more	No Change, as per RFP
286.	Volume 2 ; Page 88 ; Clause 4.9.2 8 port Managed outdoor L2 switch (Edge Level) with Fibre port	Throughput: Minimum switching capacity of 8Gbps or more	Throughput: Minimum switching capacity of 20Gbps or more	No Change, as per RFP
287.	Volume 2 ; Page 88 ; Clause 4.9 8 port Managed outdoor L2 switch (Edge Level) with Fibre port	Request for addition of new specification	IP40 protection, DIN Rail Mount option and Dual DC power input.	No Change, as per RFP
288.		The Sole/Lead bidder should be registered under the companies' act 1956/2013 or a Partnership Firm registered under Indian Partnership Act 1932 Firm or a Limited Liability Partnership Firm under Limited  Liability Partnership Firm Act 2008 and should be operational at least for last 5 years as on date of publishing of RFP.	No comments	No Change, as per RFP
289.		Sole/ Lead Bidder or any consortium member (in case of consortium) should have – <ul style="list-style-type: none"> <li>Demonstrable expertise in Construction –Should have implemented one of the following projects (#) during last three (3) years prior to the stipulated date for submission of bid.</li> </ul>	In case of JV/Consortium, the <b>Lead member of the JV/Consortium</b> should have expertise and have implemented – Construction of Commercial complexes/ Industrial complexes / Institutional Building Projects instead of any member of JV/Consortium.	No Change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
		(#) – Construction of Check posts, Toll booths, Commercial complexes/ Industrial complexes / Institutional Building Projects		
290.		Sole/Lead bidder should have <ul style="list-style-type: none"> <li>• Demonstrable expertise and experience in implementation of at least 1 command and control centre software with integration of at least 2 subsystems – vehicle tracking and management system (VTMS - AVLS), VMS, ITMS, GIS, ERP, E-Gov applications, Parking sensors, Smart poles, RFID, E Weighbridge and any other ccc relevant smart Application component).</li> </ul> Any such project should have been executed in the last three (3) years from the date of submission of bid	<ul style="list-style-type: none"> <li>• In case of JV/Consortium <b>Any JV/Consortium member should have</b> Demonstrable expertise and experience in implementation of at least 1 command and control centre software with integration of at least 2 subsystems – vehicle tracking and management system (VTMS - AVLS), VMS, ITMS, GIS, ERP, E-Gov applications, Parking sensors, Smart poles, RFID, E Weighbridge and any other ccc relevant smart Application component).</li> </ul> Any such project should have been executed in the last three (3) years from the date of submission of bid <b>instead of Lead Bidder</b>	No Change, as per RFP
291.		The sole bidder should have an average annual turnover of minimum <b>INR 75 Cr.</b> in ICT/ITES business for last 3 audited financial years (2015-16, and 2016-17, 2017-18). In case of consortium: <ul style="list-style-type: none"> <li>• In case of consortium the aggregate average annual turnover of consortium members should at least be INR 75 cr for last 3 audited financial years (2015-16, and 2016-17, 2017-18)</li> <li>• The Lead bidder (in case of consortium) should have minimum average annual turnover of minimum <b>INR 45 Cr</b> in ICT/ITES business for last 3 audited financial years (2015-16, and 2016-17, 2017-18).</li> <li>• The consortium members (in case of consortium) should have minimum average annual turnover of minimum <b>INR 30 Cr.</b> for last 3 audited financial years (2015-16, and 2016-17, 2017-18)</li> </ul> <b>Note:</b> <ul style="list-style-type: none"> <li>• ICT stands for Information, Communications Technology projects and include IT systems integration project.</li> </ul>	In case of JV/Consortium the eligibility criteria may please amended as under “In case of consortium the aggregate average annual turnover of consortium members should at least be INR 75 cr for last 3 audited financial years (2015-16, and 2016-17, 2017-18)  The Lead bidder (in case of consortium) should have minimum average annual turnover of minimum <b>INR 45 Cr</b> in <b>Civil Construction Business</b> and any consortium member should have <b>INR 45 Cr</b> in ICT/ITES business for last 3 audited financial years (2015-16, and 2016-17, 2017-18).  Note: Civil Construction Business means civil engineering infrastructure works such as construction of canals, any type of building, hydro power works, solar power works etc.	No Change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
		ITES is defined as outsourcing or off shoring of processes that can be enabled with information technology. Such outsourcing or off shoring which is technology enabled entails enterprise functions which are operations focused or customer centric or management of operations through technology enabled solutions.		
292.		The Bidder should not be under the effect of blacklisting by any inistry/Department of Government of India or by any State Government department/agency in India  or by Government of Gujarat or any of the Government PSUs at the time of bidding	No comments	No Change, as per RFP
293.		The bidder (The Sole bidder or the lead bidder in the case of consortium) should have an aggregate turnover of minimum <b>INR 5 Cr.</b> from Smart Elements  Projects (#) for last 3 audited financial years (2015-16, and 2016-17, 2017-18).  <b>(#) Bidder should have experience in either of the following elements or projects which are integral part of the project</b> viz. CCC, CCTV Cameras, ANPR solution, E-weighbridge, RFID, (readers and tags), iPoles, Parking sensors, and Smart LED lights.	The bidder (The Sole bidder or the lead bidder in the case of consortium) should have an aggregate turnover of minimum <b>INR 5 Cr.</b> from <b>Building projects</b> for last 3 audited financial years (2015-16, and 2016-17, 2017-18).  <b>At least any one members of consortium should have either of the following elements or projects which are integral part of the project</b> viz. CCC, CCTV Cameras, ANPR solution, E-weighbridge, RFID, (readers and tags), iPoles, Parking sensors, and Smart LED lights	No Change, as per RFP
294.		The sole/ <b>lead bidder</b> should have at least 200 technically trained employees on its payroll as on 31.01.2018. Out of them 50 employees should be in the Design, development and integrated IT Solution, implementation support, configuration, customization, testing, user acceptance, training, O&M activities, hand holding and application support activities.	The sole/ <b>any consortium member of</b> JV/Consortium should have at least 200 technically trained employees on its payroll as on 31.01.2018. Out of them 50 employees should be in the Design, development and integrated IT Solution, implementation support, configuration, customization, testing, user acceptance, training, O&M activities, hand holding and application support activities	No Change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
295.		The sole bidder/lead bidder or consortium member should have at least one office in Gujarat and preferably support centres/logistics for the entire state. If the Bidder/lead bidder or consortium member is not having any office in Gujarat, then bidder should submit a letter of undertaking to open the office in Gujarat within 45 days from the date of issue of work order if he is awarded the work.	No comments	No Change, as per RFP
296.		The sole/lead bidder) should have a positive net worth and should be a profit-making company for last 3 audited financial years (2015-16, and 2016-17, 2017-18).  NOTES:  The bidder/lead bidder should submit Manufacturers Authorization Certificate (MAF) from Original Equipment Manufacturers (OEMs) specific to the bid. The bidder/lead bidder should have a back-to-back support agreement / arrangement for services including supply of spare parts etc. with the OEMs which includes the post-sales support activities for the entire project period.	No Comment  The bidder/ <u>Any consortium member</u> should submit Manufacturers Authorization Certificate (MAF) from Original Equipment Manufacturers (OEMs) specific to the bid. The bidder/lead bidder should have a back-to-back support agreement/arrangement for services including supply of spare parts etc. with the OEMs which includes the post-sales support activities for the entire project period.	No Change, as per RFP
297.		Additional	MSME Registered bidders also can participate in the bid. In case of JV/Consortium, the Lead Member should have registration under MSME. All benefits of MSME shall be applicable to the bidder only.	No Change, as per RFP
298.	28	(#) Bidder should have experience in either of the following elements or projects which are integral part of the project viz. CCC, CCTV Cameras, ANPR solution. E-weighbridge, RFID, (readers and tags), iPoles, Parking sensors, and Smart LED lights.	(#) Bidder should have experience in either of the following elements or projects which are integral part of the project viz. CCC, CCTV Cameras, ANPR solution, E-weighbridge, RFID, (readers and tags), iPoles, Parking sensors, and Smart LED lights OR Supply and Commissioning of ICT projects like Video Conferencing, State wide Networking which includes switches, Routers, Modems and Connectivity support for any government departments.	No Change, as per RFP



#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
299.	Volume 1; Page 207; Clause 7.1(A) 2 Surveillance/ CCTV Components	Video Management System Software: Minimum installation base of 50 projects across globe as on 31/07/2017 and Should have been operational for at least 2 City/outdoor CCTV Surveillance projects {globally, covering open public places) of minimum 500 city/outdoor cameras each in last 3 years from the date of submission of bid	Video Management System Software: Minimum installation base of 10 projects across India as on 31/03/2018 and Should have been operational for at least 2 City/outdoor CCTV Surveillance projects in India of minimum 200 city/outdoor cameras each in last 3 years from the date of submission of bid	Read as " <b>Video Management System Software:</b> Minimum installation base of 10 projects across globe as on bid submission date and Should have been operational for at least 2 City/outdoor CCTV Surveillance projects {globally, covering open public places) of minimum 200 outdoor cameras each in last 3 years from the date of submission of bid"
300.	Volume 1; Page 207 ; Clause 7.1(B) 1 IT Infrastructure Components	Networking Equipment: OEMs who are amongst the top 5 for World-wide Market share in terms of Revenue as per latest IDC report <b>OR</b> OEM present in the Gartner Magic Quadrant for Wired & Wireless LAN Access infrastructure, March 2017.	Request you to change it to: OEMs who are amongst the top 5 for World-wide Market share in terms of Revenue as per latest IDC report <b>OR</b> OEM present in the Gartner Magic Quadrant for Wired & Wireless LAN Access Infrastructure, March 2017. <b>OR</b> OEM should have a valid ISO 9001 & ISO 14001 certification on the date of opening of bid"	No Change, as per RFP
301.	Volume 1; Page 207 ; Clause 7.1(B) 4 IT Infrastructure Components	Other Smart Elements (ANPR, Parking Sensors, E-weighbridges): Products / Solutions should have been implemented in at least 2 similar projects. Bidder to provide declaration from OEM along with the details of the projects of respective products / solutions are implemented, with following details : City name, Client Name, Duration and Value of the project, Number of sensors implemented etc.	Other Smart Elements (Parking Sensors, E-weighbridges): Products / Solutions should have been implemented in at least 2 similar projects, Bidder to provide declaration from OEM along with the details of the projects of respective products / solutions are implemented, with following details : City name, Client Name, Duration and Value of the project Number of sensors implemented etc.	No Change, as per RFP
302.	Volume 2 ; Page 86 ; Clause 4.7.1 Layer 2: 24 Port Managed Switch at CCC	Ports: 24 X 101100/1000 Base-TX (Full Duplex) ports and extra 2 nos of 106 Base SX/LX ports as per network solution offered.	Request you to change it to "24 X 10/100/1000 Base-TX (Full Duplex) ports and extra 4 nos of 10G Base SX/LX ports as per network solution offered."	No Change, as per RFP
303.	Volume 2 ; Page 86 ; Clause 4.7.1 Layer 2: 24 Port Managed Switch at CCC	Add new specification	Request you to add "Layer3 routing support including Static Routing, RIP and OSPF."	No Change, as per RFP
304.	Volume 2 ; Page 86 ; Clause 4.8.1	Ports: Layer 3 switch with minimum For Checkpost -20 X1G + 4X10G + 4 X10 G uplink ports For CCC- 24 X1G + 4X1G uplinks ports	Request you to change it to: Layer 3 switch with minimum For Checkpost -20X1G + 4X1G + 4X10G uplink ports For CCC- 24X1G + 4X1/10G uplinks ports	<b>PI refer corrigendum</b>

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
	Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC			
305.	Volume 2; Page 86; Clause 4.8.1 Layer 3: 24 port Switch (Aggregation Switch) For Check post and CCC	Add new specification	Request you to add "Layer3 routing support Including Static Routing, RIP and DSPF".	No Change, as per RFP
306.	Volume 2; Page 86; Clause 4.9.7 8 port Managed outdoor L2 switch (Edge Level) with Fibre port	Operating Temperature: 0°C to 55°C or better	Request you to change it to "-20°C to 70°C. or better"	No Change, as per RFP
307.	Volume 2 ; Page 86 ; Clause 4.9.7 8 port Managed outdoor L2 switch (Edge Level) with Fibre port	Add new specification	Request you to add "1P40 protection, DIN Rail Mount option and Dual DC power input".	No Change, as per RFP
308.	Page 85 4.5 LED TV (Professional Displays); Specification Item No. 2	HDMI (Including HDMI cable), VGA	Input Interface: VGA X 1, DVI X 1, BNC X 1, YPbPr X 1, HDMI X 1 Output interface: VGA X 1, DVI X 1, BNC X 1 Control Interface: RJ45 for RS-232 Recommended to add in RFP	No Change, as per RFP
309.	Page 85 4.5 LED TV (Professional Displays); Specification Item No. 3	Screen Size ; 50 inch or higher diagonal	Request you to ammend the Screen size atleast 55" is better for viewing	No Change, as per RFP
310.	Page 85 4.5 LED TV (Professional Displays); Specification Item No. 5	Contrast ratio; Native (standard) 5000:1 or more	Contrast 3500:1; enough	No Change, as per RFP
311.	Page 85 4.5 LED TV (Professional Displays); Specification Item No. 6	Brightness: 300 Cd/m2 or more	Request you to ammend the Brightness atleast 500cd/ m <sup>2</sup> : minimum required	No Change, as per RFP
312.	Page 85 4.5 LED TV (Professional Displays); Specification Item No. 7	Viewing angle: 160 degree or better	Request you to amend the viewing angle atleast 178°/ 178°	No Change, as per RFP
313.	Page 85 4.5 LED TV (Professional Displays); Specification Item No. 8	8 to 12ms or less	Request you to amend the response timefrom '8 to 12 ms to '8ms'	No Change, as per RFP
314.	Page 102 4.27 Indoor Fixed Dome camera with PoE for Surveillance Specification Item No. 1	Video Compression: H.264, H.265, MJPEG	Request you to amend the Video compression atleast H.265+/H.265/H.264+/H.264/MJPEG	No Change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
315.	Page 102 4.27 Indoor Fixed Dome camera with PoE for Surveillance Specification Item No. 5	Lens: 3 to 9 mm or better, DC-iris, motorized Zoom	Lens plays an important role in surveillance industry. The size of lens decides the angle of view of the camera. Requesting you to amend stanadrd lens size 2.8~12mm as per camera location for better coverage	No Change, as per RFP
316.	Page 102 4.27 Indoor Fixed Dome camera with PoE for Surveillance Specification Item No. 6	Minimum Illumination: Colour: 0.5 lux/f.12, B/W: 0.05 lux/f.12	As this camera is going to be used for indoor purpose, it is recommended to have better image quality during night time, the <b>Minimum Illumination</b> (lux level) is recommended to be <b>Colour-0.01Lux; B/W - 0.018Lux</b>	No Change, as per RFP
317.	Page 102 4.27 Indoor Fixed Dome camera with PoE for Surveillance Specification Item No. 10	WDR:100 db or better	For outdoor / indoor surveillance, there is variation in illuminance due to bright light sources. True WDR value with 120db value will render better and good quality image as compared with any normal camera with WDR feature. Request you to amend it to <b>True WDR 120dB</b> which is wide used and available with major brands.	No Change, as per RFP
318.	Page 102 4.27 Indoor Fixed Dome camera with PoE for Surveillance Specification Item No. 14	Audio: Full duplex, line in and line out, G.711, G.726 with mic	G.711/G.722.1/G.726/MP2L2/PCM; Audio interface should be enough for two way communication: 1 input (line in/mic.in, 3.5 mm), 1 output (line out, 3.5 mm), mono sound	No Change, as per RFP
319.	Page 102	To be added	The Camera must have 3D DNR (Digital Noise Reduction)/BLC, as it reduces the noise in the video stream. Thus, to reduce the noise request you to add <b>3D DNR feature/BLC</b> in Dome camera	No Change, as per RFP
320.	Page 102 4.27 Indoor Fixed Dome camera with PoE for Surveillance Specification Item No.23	Camera should supplied with 32GB Micro SD/SDHC /SDXC memory card for recording	Requesting to Add support upto 128GB SD Card considering Megapixels IP cameras & extended days of recording	No Change, as per RFP
321.	Page 105 4.30 Fixed Box Camera Specification Item No. 1	Video Compression: H.264, H.265, MJPEG	Request you to ammend the video Compression atleast H.265+/H.265/H.264+/H.264/MJPEG	No Change, as per RFP
322.	Page 106 4.30 Fixed Box Camera Specification Item No. 12	WDR:100 db or better	For outdoor / indoor surveillance, there is variation in illuminance due to bright light sources. True WDR value with 120db value will render better and good quality image as compared with any normal camera with WDR feature. Request you to amend it to <b>True WDR 120dB</b> which is wide used and available with major brands.	No Change, as per RFP
323.	Page 106 4.30 Fixed Box Camera Specification Item No. 14	Camera should supplied with 32GB Micro SD/SDHC /SDXC memory card for recording	Requesting to Add support upto 128GB SD Card considering Megapixels IP cameras & extended days of recording	No Change, as per RFP
324.	Page 106 4.30 Fixed Box Camera Specification Item No. 19	Operating temperature: 0 to 50°C	Request you to ammend the operating temperature '-30 °C to +60 °C (-22 °F to +140 °F)	No Change, as per RFP

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
325.	Page 106 4.30 Fixed Box Camera Specification Item No. 20	Casing: NEMA 4X / IP-66 rated & IK 10 or above rated	Request you to ammend the protection level, up to IP 67	No Change, as per RFP
326.	Page 106 4.31 PTZ Camera Specification Item No. 1	Video Compression: H.264, H.265, MJPEG	Request you to ammend the video Compression atleast H.265+/H.265/H.264+/H.264/MJPEG	No Change, as per RFP
327.	Page 106 4.31 PTZ Camera Specification Item No. 5	lens: 5.2 ~ 104 mm Varifocal, IR Corrected	Request you to amend thefocal length atleast 4.8 mm to 120 mm, 25× optical zoom	No Change, as per RFP
328.	Page 106 4.31 PTZ Camera Specification Item No. 7	Optical Zoom -20x or better	Optical Zoom is a true zoom lens and produces much better quality images. Thus, higher the optical zoom, the better is the quality of the image, hence requesting you to amend the <b>Optical zoom</b> to <b>25X</b> , instaed of 20X.	No Change, as per RFP
329.	Page 106 4.31 PTZ Camera Specification Item No. 8	Digital Zoom -12x or better	Digital Zoom, enlarges the image area at the center of the image, higher the digital zoom, better area will be zoomed, Thus, requesting you to ammend the <b>Digital Zoom</b> to <b>16X</b> , instead of 12X	No Change, as per RFP
330.	Page 107 4.31 PTZ Camera Specification Item No. 10	Minimum Illumination: Colour: 0.05 lux, B/W: 0.05 lux	As this camera is going to be used for outdoor purpose, it is recommended to have better image quality during night time, the <b>Minimum Illumination</b> (lux level) is recommended to be <b>Colour-0.005Lux; B/W - 0.001Lux</b>	No Change, as per RFP
331.	Page 107 4.31 PTZ Camera Specification Item No. 14	WDR:100 db or better	For outdoor / indoor surveillance, there is variation in illuminance due to bright light sources. True WDR value with 120db value will render better and good quality image as compared with any normal camera with WDR feature. Request you to amend it to <b>True WDR 120dB</b> which is wide used and available with major brands.	No Change, as per RFP
332.	Page 79 4.4 VMS Specification Item No. 7	VMS shall be enabled for integration with any external Video Analytics Systems both server & edge based	Requesting you to kindly amend VMS and camera should be same make with all required edge base analytics supported by proposed VMS.	No Change, as per RFP
333.	Page 83 4.4.6 Management / Integration Functionality	It should be possible to integrate the Surveillance System with 3rd-party software, to enable the users to develop customized applications for enhancing the use of video surveillance solution. For e.g., integrating alarm management to initiate SMS, E-Mail, VoIP call, etc.	further to submission for seamless integration of third-party software SDK/API will be provided by VMS providers, so kindly also ask for to SDK/API should be available with participated OEM	Read as "It should be possible to integrate the Surveillance System with 3rd-party software, to enable the users to develop customized applications for enhancing the use of video surveillance solution. For e.g., integrating alarm management to initiate SMS, E-Mail, VoIP call, etc.

#	Tender Page No.	Clause as per tender	Clarification Required / Suggestions	Clarifications by GIL
				SDK/API should be made available by the bidder after project Go-Live”