S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
1.	Section 2 Fact Sheet	Fact Sheet	10	I	Method of Selection: Least Cost	Since this is a technology bid with lot of integrations and solution development and deployment, making it least cost will restrain bidders from emphasizing on quality. The bidders will look for low cost solutions. We strongly recommend to make it as QCBS with 70:30 ratio for Techncial:Financial as followed by almost all smart cities.	**Clause Amended as:** Please refer to the Corrigendum
2.	Section 2 Fact Sheet	Fact Sheet	11	I	The method of Selection of the MSI is Least Cost/L1 basis	Kindly Consider Quality Cum Cost Basis Justifications: Smart City Projects involve innovation and dynamism, if the selection is based on Least Cost, there will be no scope for innovation.	**Clarification:** Please refer to the Corrigendum
3.	Section 4.1 Smart City Mission	Smart City Mission - Point No. 25, 26 & 27	14	I	E-Governance Citizen Services Development of Smart Mobile app for Municipal services for citizens. Development of Smart City App of Municipal Services for Citizens Mobile based Exploratory app for Ease of tourists.	There is no details of E-governance modules under scope of work.	**Clarification:** Tender conditions shall prevail
4.	Section 4.3 Project Implementation Phase	Project Implementation Phase - Point No. 15	17	I	15.Egovernance for Citizens - Phase II and Beyond	There is no E-Governance scope mentioned in RFP though, E-governance for Citizens has been propsed under implemenation phase. Please eleborate scope of e-governace solution.	**Clarification:** Tender conditions shall prevail
5.	Section 4.3 Project Implementation Phase	Project Implementation Phase - Point No. 11	17	I	Development of Smart Mobile App for Municipal Services for Citizens	Is development of Smart mobile app for Municipal Services under scope? If yes,there is no mention of Smart Mobile App for Municipal services under "Scope of Work" document(Volume-2). Please elaborate the scope of Smart Mobile App for Municipal services for Citizens in detailed and provide Functional requirements specifications.	**Clarification:** Tender conditions shall prevail
6.	Section 5.18 5.18 Performance Bank Guarantee (PBG)	Performance Bank Guarantee (PBG) Point No 5.18.1 & 5.18.2	24	I	5.18.1 Performance Bank Guarantee must be made in the form of Bank Guarantee from any Scheduled Commercial Bank / Nationalized Bank drawn in favor of ASCL, payable at Amritsar equivalent to ten percent (10%) of the Contract Value before signing of the Contract. 5.18.2 Validity: Valid for the entire Project term. The PBG shall be released after 51 months from the effective date of the Go-Live of the Smart Solutions or execution of all pending Work Orders, whichever is later.	Kindly allow to submit two performance bank guarantees of 10% of CAPEX & 10% of OPEX value separately at their respective schedules (before start of respective phase/stage). This will help in reducing guarantee cost and bid cost also.	**Clarification:** Tender conditions shall prevail
7.	Section 5.27 Purchaser's Right to Vary Scope of Contract	Purchaser's Right to Vary Scope of Contract Point No 5.27.1 & 5.27.2	25	I	5.27.1 The Purchaser may at any time, by a written order given to the Bidder, with mutual consensus with the selected bidder, make changes to the Scope of the Contract as specified 5.27.2 If any such change causes an increase or decrease in the cost of, or the	We request to kindly limit the % of variation (increase/decrease) to reduce uncertainty and viability of bid. Also the variation should be limited to BOQ quantities and not on the scope	**Clarification:** Tender conditions shall prevail

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					time required for the Bidder's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment shall be made in the Contract Value or time both, as decided by the committee and the Contract shall accordingly be amended. Any claims by the Bidder for adjustment under this Clause must be asserted within thirty (30) days from the date of the Bidder's receipt of the Purchaser's changed order.		
8.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 2	31	I	2. The Sole Bidder or the Lead Bidder in case of a Consortium should have an average annual turnover4 of INR 300 Crores and positive net- worth5 for the last three financial years (FY 2015- 16, 2016-17 and 2017-18) In case of Consortium, each member of the Consortium (other than the Lead Bidder) should have an average annual turnover of INR 30 crores and positive net-worth for the last three financial years (FY 2015-16, 2016-17 and 2017-18)	Kindly ammend to: "2. The Sole Bidder or the Lead Bidder in case of a Consortium should have an average annual turnover4 of INR 300 Crores and positive net-worth5 for the last three financial years (FY 2015- 16, 2016-17 and 2017-18) In case of Consortium, each member of the Consortium (other than the Lead Bidder) should have an average annual turnover of **INR 5 crores** and positive net-worth for the last three financial years (FY 2015-16, 2016-17 and 2017-18)"	**Clause Amended as:** Please refer to the Corrigendum
9.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 3	31	I	3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two ....Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance Systems	**Kindly remove the Note clause**,i.e, Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance Systems.	**Clause Amended as:** Please refer to the Corrigendum
10.	Section 6 Evaluation of Eligibility Criteria	NA	31	I	Additional Criteria	We request ASCL to allow Bidder to use Experience Of its parent / Subsidairy Company for meeting the Clause 6 - Evaluation of Eligibility Criteria. For the purpose Of evaluations, bidders are allowed to submit experience in terms Of technical qualification of their holding (parent) company or subsidiary company or Sister Concern only. a. a 'holding company', in relation to one or more other companies, means a company of which such companies are subsidiary companies; and b. a 'subsidiary company' in relation to any Other company (that is to Say the holding company), means a company in which the holding company— (a) controls	**Clause Amended as:** Please refer to the Corrigendum

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						the composition Of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own c. a 'sister concern' in relation to Bidder Company, means a Company whose holding compa is same as bidder's holding company and holding company (a) controls the composition of the Board Of Directors; or (b) exercises or controls more than one-half Of the total share capital at In case the experience shown is that Of the bidder's parent / subsidiary [sister concern company, then the following additional documents are required: • Certificate signed by the Company Secretary/statutory Auditor/2 Board Of Directors Of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company.	
11.	Section 6 Evaluation of Eligibility Criteria	NA	31	I	Additional Criteria	We request ASCL to allow Bidder to use Experience of on-going Projects for meeting Clause 6 - Evaluation Of Eligibility Criteria. In case of on-going Project, **it must have achieved 80% of capex c**ompletion from financial and physical perspective. In such case, a certificate from Chartered Accountant/ Statutory Audito ifying that requisite work/ contract value in terms of at least 80% of capex is completed.	**Clause Amended as:** Please refer to the Corrigendum
12.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 1	31	I	Criteria 1. a. The Sole Bidder and each of Consortium members should be registered under Companies Act. 1956 or as amended or a LIP firm/partnership firm under Partnership Act 1932. b. The Sole Bidder or the Lead Bidder in case of a Consortium should have completed at least 10 years of Operations in India as on bid submission date c. In case Of Consortium, each member of the Consortium (other than the Lead Bidder) should have completed at least 5 years of operations in India as on bid submission date Documentary Evidence• i. Copy of Certification of Incorporation/Registration Certificate	We request ASCL to allow Foreign Bidder to participate in the RFP and modify the clasue as under: Criteria The Sole Bidder/ Lead Bidder (in case of Consortium) shall be in operations for a period of at least ten (10) years as on published date of RFP. In case of a Consortium, in addition, each member other than Lead Bidder shall be in operations for a period of at least five (5) years as on published date of RFP. Document Evidence 1. Copy of certificate of Incorporation/Registration under Companies Act 1956 or The companies Act 2013 (for Indian companies) **2. Foreign companies (in case Of a Lead bidder or OEM) not registered in India shall provide equivalent proof of incorporation/ registration** **3. A written undertaking from each of the Consortium Members, in case of a Consortium, duly signed by the authorized signatory, holding a**	**Clarification:** Tender conditions shall prevail

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						written power of attorney for this Bid on a stamp paper of relevant value, authorizing the lead bidder to incur liabilities and receive instructions for and on behalf of any and all consortium members, and the entire execution of the Contract including but not limited to the payments. 4. MOA among the Consortium Members shall be submitted showing the area of business.	
13.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No.2	31	I	2. The Sole Bidder or the Lead Bidder in case of a Consortium should have an average annual turnover of INR 300 Crores and positive net worth for the last three financial years (FY 2015-16, 2016-17 and 2017-18). In case of Consortium, each member of the Consortium (other than the Lead Bidder) should have an average annual turnover of INR 30 crores and positive net-worth for the last three financial years (FY 2015-16, 2016-17 and 2017-18). Documentary Evidence I. Audited financial statements for the last three financial years (FY 2015-16, 2016-17 and 2017-18) II. Certificate from the Statutory Auditor on turnover details for the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18) III. Certificate from the Statutory Auditor on positive net-worth for the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18)	2. The Sole Bidder or the Lead Bidder in case of a Consortium should have an average annual turnover of INR 300 Crores of last three financial years (FY 2015-16, 2016-17 and 2017-18).Lead Bidder should have positive net worth as on last date of last financial year In case of consortium • Lead Bidder should have minimum 60% of the Turnover • All members together should meet 300 Cr Turnover requirement Documentary Evidence I. Audited financial statements for the last three financial years (FY 2015-16, 2016-17 and 2017-18) II. Certificate from the Statutory Auditor on turnover details for the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18) III. Certificate from the Statutory Auditor on positive net-worth as on last date of last FY Note: Bidder's parent company financial qualification will be allowed if bidder is a wholly owned subsidiary of its parent company.	**Clause Amended as:** Please refer to the Corrigendum
14.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria	31	I	**Additional Clause**	**We request ASCL to allow Bidder to use Experience of its Parent / Subsidiary Company for meeting the Clause 6 - Evaluation of Eligibility Criteria.** For the purpose of evaluations, bidders are allowed to submit experience in terms of technical qualification of their holding (parent) company or subsidiary company or Sister Concern only. a. a 'holding company', in relation to one or more other companies, means a company of which such companies are subsidiary companies; and b. a 'subsidiary company' in relation to any other company (that is to say the holding company), means a company in which the holding company— (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						c. a 'sister concern' in relation to Bidder Company, means a company whose holding company is same as bidder's holding company and holding company (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own In case the experience shown is that of the bidder's parent / subsidiary /sister concern company, then the following additional documents are required: • Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company.	
15.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria	31	I	**Additional Clause**	**We request ASCL to allow Bidder to use Experience of on-going Projects for meeting the Clause 6 - Evaluation of Eligibility Criteria.** In case of on-going Project, it must have achieved 80% of capex completion from financial and physical perspective. In such case, a certificate from Chartered Accountant/ Statutory Auditor certifying that requisite work/ contract value in terms of at least 80% of capex is completed.	**Clause Amended as:** Please refer to the Corrigendum
16.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 1	31	I	**Criteria** 1. a. The Sole Bidder and each of Consortium members should be registered under Companies Act, 1956 or as amended or a LLP firm/Partnership firm under Partnership Act 1932. b. The Sole Bidder or the Lead Bidder in case of a Consortium should have completed at least 10 years of Operations in India as on bid submission date c. In case of Consortium, each member of the Consortium (other than the Lead Bidder) should have completed at least 5 years of operations in India as on bid submission date **Documentary Evidence*** i. Copy of Certification of Incorporation/Registration Certificate	**We request ASCL to allow Foreign Bidder to participate in the RFP and modify the clasue as under:** **Criteria** The Sole Bidder/ Lead Bidder (in case of Consortium) shall be in operations for a period of at least ten (10) years as on published date of RFP. In case of a Consortium, in addition, each member other than Lead Bidder shall be in operations for a period of at least five (5) years as on published date of RFP. **Document Evidence** 1. Copy of certificate of Incorporation/Registration under Companies Act 1956 or The companies Act 2013 (for Indian companies) **2. Foreign companies (in case of a Lead bidder or OEM) not registered in India shall provide equivalent proof of incorporation/ registration** **3. A written undertaking from each of the Consortium Members, in case of a Consortium, duly signed by the authorized signatory, holding a written power of attorney for this Bid on a stamp paper of relevant value, authorizing the lead bidder to incur liabilities and receive instructions for and on behalf of any and all consortium members, and the entire execution of the Contract including but not limited to the payments.**	**Clarification:** Tender conditions shall prevail

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						4. MoA among the Consortium Members shall be submitted showing the area of business.	
17.	Section 6 Evaluation of Eligibility Criteria	Evaluation Criteria - Point No. 3	31	I	Bidders who have bult their own Data Centre for commercial use shall be considered	Request the authorities to please provide clarity on following point: Data Center including Servers- Storage Infrastructure: BSNL is a MeiTY empanelled cloud service provider having 6 internet cloud data centers across the country. Being a cloud service provider, BSNL offers services like data center co-hosting, infrastructure as a service, platform as a service and software as a service to multiple government and private instituions. Request the authotities to please clarify if DC/DR server and storage cloud hosting experience would be considered or not.	**Clarification:** The experience of such bidders shall be considered if intended for Commercial Usage. In such a case, documentary evidence as listed in "Table 6-1 Eligibility Criteria" shall have to be furnished
18.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 2	31	I	The Sole Bidder or the Lead Bidder in case of a a Consortium should have an average annual turnover of INR 300 Crores and positive net worth for the last three financial years (FY 2015-16, 2016-17, 2017-18) In case of Consortium, each member of the Consortium (other than the lead bidder) should have an average annual turnover of INR 30 Crores and positive net-worth for the last three financial years (FY 2015-16, 2016-17, 2017-18)	In recent similar tenders, the bidders were allowed to submit their foreign/Indian parent company credentials to meet technical & financial criterias, if and only if the bidder is a wholly owned/ 99.99% subsidiary of their foreign/Indian parent company from the same domain. 1) Hence we kindly request the authority to allow the bidders who are wholly owned/ 99.99% subsidiaries to use their parent company credentials for qualification. 2) In order to increase the participation of more competitive bidders, we request to decrease the turnover requirement of the bidder/ consortium to **INR 200 Crores over last three FY for a competitive bidding.** 3) Also request to allow bidder to use the financials of **their preceding last three years ie. (2014-15,2015-16 & 2016-17), if their current financial year auditing is under process and submit a declaration for non-submission of financials for the said year**.	**Clause Amended as:** Please refer to the Corrigendum
19.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria	31	I	Request to add	To ensure the quality of the system along with the Financial status of the company, we hereby request you to kindly add the following OEM criteria: "The OEM should be a profit making company for past 05 (Five) years"	**Clarification:** Tender conditions shall prevail
20.	Section 6 Evaluation of Eligibility Criteria	Evaluation of eligibility criterion -Point No. 1(b)	31	I	a. The Sole Bidder or the Lead Bidder in case of a Consortium should have completed at least 10 years of Operations in India as on bid submission date	Bidder suggest to change this to 3 years. Or Bidder and its original entity are in operations in India since last 10 years	**Clarification:** Tender conditions shall prevail
21.	Section 6 Evaluation of	Table 6-1 Eligibility Criteria - Point No. 3	32	I	3. The Sole Bidder or any Of Consortium members Should have experience in India / Abroad Of	The qualification criteria are too stringent. We request ASCL to relax the qualification criteria by modifying the clause as under.	**Clause Amended as:** Please refer to the Corrigendum

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	Eligibility Criteria				executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores •Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) • ANPR systems • Face Recognition System (FRS) Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance System.	Criteria . The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores **•Video Analytics (Crowd Detection and People Counting in Camera View / Face Masking / Un-Attended Objects / Vehicle Count / Wrong way driving / Motion Detection / Congestion Detection)** • ANPR Systems • Face Recognition System (FRS) Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience	
22.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 3	32	I	3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (I) project should have been completed during the last 7 years as on bid submission date: b. Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (certified by Uptime Institute for facility management and/or design) with minimum	The qualification criteria are too stringent. We request ASCL to relax the qualification criteria by modifying the clause as under. Criteria 3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: b. Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at ~~least Tier II or above Data Centre (certified by Uptime Institute for facility management and/or design)~~ with minimum value of INR 10 Crores. .	**Clause Amended as:** Please refer to the Corrigendum

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					value of INR 10 Crores. Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered.	Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered.	
23.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 3	32	I	The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores · Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) · ANPR Systems · Face Recognition System (FRS) Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance Systems b. Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (certified by Uptime Institute for facility management and/or design) with minimum value of INR 10 Crores. Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered. c. Design, Installation and Operations & Maintenance of Integrated Operations	It may be noted that GIS , Surveillance and Scada are equally important for city operations and governance and hence request you to consider adding the same in clause. Additionally these integrations are the part of Amritsar Smart city during phase 1 and phase 2. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: .... i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management vi. Tourism Information Centre vii. Real-time Air Monitoring/**Environmental Sensors** viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD) Board x **GIS** xi **Surveillance Camera** xii **Scada** d. Leased Services of Network Bandwidth / Internet Connectivity (OFC network or Electronic components or both) for connecting different smart elements / smart solutions in city-wide / Campus-wide projects with minimum value of INR 5 Crores Note: The Lead Bidder (in case of consortium) should have experience in India / Abroad of executing at least two (2) projects in any one of the "Specific Business Areas" mentioned above at S. No. 1 and 2 out of which one (1) project should have been completed in the last 7 years as on bid submission date.	**Clause Amended as:** Please refer to the Corrigendum

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					Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management vi. Tourism Information Centre vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD) Board d. Leased Services of Network Bandwidth / Internet Connectivity (OFC network or Electronic components or both) for connecting different smart elements / smart solutions in city-wide / Campus-wide projects with minimum value of INR 5 Crores Note: The Lead Bidder (in case of consortium) should have experience in India / Abroad of executing at least two (2) projects in any one of the "Specific Business Areas" mentioned above at S. No. 1 and 2 out of which one (1) project should have been completed in the last 7 years as on bid submission date.		
24.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 3	32	I	The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores • Video Analytics (Crowd Detection and	The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores • Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Counting & Classifying, Wrong way driving, Violation Detection, Speed Detection, Motion Detection, Congestion Detection - **Any 4 Edge**	**Clause Amended as:** Please refer to the Corrigendum

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					People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) • ANPR Systems • Face Recognition System (FRS) Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance Systems b. Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (certified by Uptime Institute for facility management and/or design) with minimum value of INR 10 Crores. Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered. c. Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management vi. Tourism Information Centre vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD) Board d. Leased Services of Network Bandwidth /	**Analytics)** • ANPR Systems • Face Recognition System (FRS) Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance Systems .... **i. Adaptive Traffic Control System (ATCS)** **ii. GIS based Platform** **iii. Metrological/Environmental Monitoring System** **iv. Traveler Information System** **v. Public Website/Mobile Application** **vi. Transit Planning Module** **vii. Integration with Emergency Response System** **viii. Integration with SCADA based Systems** d. Leased Services of Network Bandwidth / Internet Connectivity (OFC network or Electronic components or both) for connecting different smart elements / smart solutions in city-wide / Campus-wide projects with minimum value of INR 5 Crores Note: The Lead Bidder (in case of consortium) should have experience in India / Abroad of executing at least two (2) projects in any one of the "Specific Business Areas" mentioned above at S. No. 1 and 2 out of which one (1) project should have been completed in the last 7 years as on bid submission date. Documentary Evidence Work order OR Contract clearly highlighting the Scope of Work, Bill of Material and value of the Contract/order OR Self-certificate from the Bidder mentioning the Scope of Work, Bill of Material and value of the Contract/order, signed by authorized signatory of the Bidder for this bid Note: Bidder shall mention disclaimer under each Self certificate that Bidder cannot submit Work Order or Contract due to NDA signed with respective client AND ii. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letterhead	

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					Internet Connectivity (OFC network or Electronic components or both) for connecting different smart elements / smart solutions in city-wide / Campus-wide projects with minimum value of INR 5 Crores Note: The Lead Bidder (in case of consortium) should have experience in India / Abroad of executing at least two (2) projects in any one of the "Specific Business Areas" mentioned above at S. No. 1 and 2 out of which one (1) project should have been completed in the last 7 years as on bid submission date. Documentary Evidence Work order OR Contract clearly highlighting the Scope of Work, Bill of Material and value of the Contract/order OR Self-certificate from the Bidder mentioning the Scope of Work, Bill of Material and value of the Contract/order, signed by authorized signatory of the Bidder for this bid Note: Bidder shall mention disclaimer under each Self certificate that Bidder cannot submit Work Order or Contract due to NDA signed with respective client AND ii. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letterhead OR Copies of payments received against the work order/Purchase Order signed by the Statutory Auditor of the Bidder or any other document certifying the completion of the project Note: In case of a turnkey project comprising of application development and IT Infrastructure, the Bidder is required to submit a certificate from Statutory Auditor/ Company Secretary specifying the value of the respective business area.	OR In case project is on-going a certificate from the Charted Accountant/Statutory Auditor has to be provided mentioning that 80% of Capex is complete. OR Copies of payments received against the work order/Purchase Order signed by the Statutory Auditor of the Bidder or any other document certifying the completion of the project. Note: In case of a turnkey project comprising of application development and IT Infrastructure, the Bidder is required to submit a certificate from Statutory Auditor/ Company Secretary specifying the value of the respective business area. Note: In case bidder/prime bidder is a wholly owned subsidiary, the experience of parent/subsidiary/sister concern company would be considered for eligibility • Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company. • Shareholding pattern of the bidding entity as per audit reports.	

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25.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 3	32	I	3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores •Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) • ANPR Systems • Face Recognition System (FRS) *Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance System.*	The qualification criteria are too stringent. We request ASCL to relax the qualification criteria by modifying the clause as under. **Criteria** 3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores **•Video Analytics (Crowd Detection and People Counting in Camera View / Face Masking / Un-Attended Objects / Vehicle Count / Wrong way driving / Motion Detection / Congestion Detection)** • ANPR Systems • Face Recognition System (FRS) *Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance System.*	**Clause Amended as:** Please refer to the Corrigendum
26.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 3	32	I	3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: b. Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (certified by Uptime Institute for facility management and/or design) with minimum value of INR 10 Crores. *Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered.*	The qualification criteria are too stringent. We request ASCL to relax the qualification criteria by modifying the clause as under. **Criteria** 3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: b. Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre ~~(certified by Uptime Institute for facility management and/or design)~~ with minimum value of INR 10 Crores. *Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered.*	**Clause Amended as:** Please refer to the Corrigendum

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27.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 3 (a)	32	I	The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores · Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) · ANPR Systems · Face Recognition System (FRS)	We assume that Bidder has to submit Two (2) projects only from any of Four (4) different business area. Kindly confirm. **Also requesting you kindly amend the clause like:** The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores · Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) · ANPR Systems **. Speed Violation** · Face Recognition System (FRS)	**Clause Amended as:** Please refer to the Corrigendum
28.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 3 (b)	32	I	Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre **(certified by Uptime Institute for facility management and/or design)** with minimum value of INR 10 Crores. Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered.	Requesting you kindly consider Tier II or above certificate from other certified body also.	**Clause Amended as:** Please refer to the Corrigendum
29.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 3 (a)	32	I	The sole bidder or any member in the consortium shall have experience in India/Abroad of executing atleast 2 projects per business areas in minimum of two following specific business areas out of which one project should have been completed in last seven years as on bid submission date: a. Supply, Installation, Operations and maintenance of city wide video surveillance systems (including any two out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores • Video Analytics (Crowd Detection and	Reduce value of Work order from 10 Cr. to 5 Cr.	**Clause Amended as:** Please refer to the Corrigendum

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					people counting in camera view, face masking, Un-attended Objects, Vehicle Count, Wrong Way Driving, Motion Detection, Congestion Detection) • ANPR Systems • FRS Systems Note: CCTV Installations at Transport Hubs (airports, Railway Stations, Harbour, Cargo HUb, Educational Institutions, Industrial HOuses, Manufacturing Plants and Residential Colonies etc. shall not be considered as an experience for City wide CCTV Installation		
30.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 3	32	I	The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: c. Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management vi. Tourism Information Centre vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD) Board	The deployment of Command & control Centre is the most critical component of the entire project . And so are integrations of various subsystems with the Command Control Centre. So it is pertinent to check the capabilities of the Bidder for implementation of Command & Control center Hence request the clause to include at least two (2) projects of any of the above specifically for Command & Control Centre deployment with at least one project in India of minimum project value of 10 Crore each Request the clause to be amended in the interest & spirit of project **The bidder / consortium member of proposed Command & control Centre Platform should have successfully implemented in at least one project with one smart city in India, as on date of bid submission, with at least 10 or more different smart application integrations (in a single project) covering bi- directional integration (centrally command, controlled and operated by Command & control Centre platform) mandatorily having any four of the below: • City Surveillance System • Smart Governance • Parking System • Intelligent Traffic Management System • Water & Power SCADA • Access Control System /Building Management • Smart Lighting/LED lights**	**Clause Amended as:** Please refer to the Corrigendum
31.	Section 6 Evaluation of Eligibility Criteria	Evaluation Criteria - Point No. 3	32	I	The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2)	Request you to please consider below modification: The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least	**Clause Amended as:** Please refer to the Corrigendum

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					following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: Note: The Lead Bidder (in case of consortium) should have experience in India / Abroad of executing at least two (2) projects in any one of the "Specific Business Areas" mentioned above at S. No. 1 and 2 out of which one (1) project should have been completed in the last 7 years as on bid submission date.	two (2) projects ~~per business area in minimum of two (2)~~ following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: ~~Note: The Lead Bidder (in case of consortium) should have experience in India / Abroad of executing at least two (2) projects in any one of the "Specific Business Areas" mentioned above at S. No. 1 and 2 out of which one (1) project should have been completed in the last 7 years as~~ ~~on bid submission date.~~ Justification: Smart City Projects have diferent flavours in each city depending on their individual need & requirements. Hence it is our humble request that it should not be made compulsary that 2 of the business tracs be there in one single project instead multiple project experience shoud be considered for the same. Additionally, onging projects with work order should be considered. this allows a widend participation and accomodation of New and innovative projects.	
32.	Section 6 Evaluation of Eligibility Criteria	Evaluation of eligibility criterion - Point No. 3 (b)	32	I	Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (certified by Uptime Institute for facility management)	Bidder suggest to split this in two different criterion. 1) Design supply Installation and operations & Maintenance of IT Infrastructure, networking equipments, server, cyber security with minimum value of 10 cr 2) Design and Build Tier II and above data center with min value of 10 cr	**Clause Amended as:** Please refer to the Corrigendum
33.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 3	33	I	3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: . Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software	The qualification criteria are too stringent. We request ASCL to relax the qualification criteria by modifying the clause as under. Criteria 3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (I) project should have been completed during the last 7 years as on bid submission date: c. Design, Installation and Operations & Maintenance Of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at **least two (2)** different smart elements / smart solutions using ICCC software platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores	**Clause Amended as:** Please refer to the Corrigendum

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					platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management vi. Tourism Information Centre vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD) Board	i. Parking Sensors / Intelligent Parking ii. **Enviorment** / Weather Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management / **PAS** vi. Tourism Information Centre / **PIS** vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD) Board	
34.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 3	33	I	3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: c. Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management vi. Tourism Information Centre vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD) Board	The qualification criteria are too stringent. We request ASCL to relax the qualification criteria by modifying the clause as under. **Criteria** 3. The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: c. Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least ~~four (4)~~ **two (2)** different smart elements / smart solutions using ICCC software platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores i. Parking Sensors / Intelligent Parking ii. ~~Air Quality~~ **Enviorment / Weather Monitoring Stations** iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management / **PAS** vi. Tourism Information Centre / **PIS** vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD) Board	**Clause Amended as:** Please refer to the Corrigendum
35.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 3 (c)	33	I	Design, Installation and Operations & maintenance of Integrated Operations Centre/ Command and Control Centre/City Operations Centre/City Surveillance Command Centre with integration of at least four (4) different smart elements/smart solutions using ICCC software platform (out of the following (9) smart elements/smart	Requesting authority to include various other relevant smart components and revise clause as below: Design, Installation and Operations & maintenance of Integrated Operations Centre/ Command and Control Centre/City Operations Centre/City Surveillance Command Centre with integration of at least four (4) different smart elements/smart solutions using ICCC	**Clause Amended as:** Please refer to the Corrigendum

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					solutions) with minimum value of INR 10 Crores ●Parking Sensors/Intelligent Parking ●Air quality monitoring stations ●Solid waste Management ●Intelligent Lighting systems/Smart LED street lights ●Public safety and Disaster management ●Tourism Information centre ●Real-time Air monitoring ●GPS based Vehicle Tracking Systems ●Variable Message Display (VMD) Board	software platform (out of the following (14) smart elements/smart solutions) with minimum value of INR 10 Crores ●**Traffic enforcement systems (ANPR/RLVD/SVD)** ●**Implementation/ Integration of Echallan System** ●**Traffic classifier and counter system** ●**Video surveillance System** ●**ECB/ panic Buttons** ●**Incident/emergency management** ●Parking Sensors/Intelligent Parking ●Air quality monitoring stations ●Solid waste Management ●Intelligent Lighting systems/Smart LED street lights ●Public safety and Disaster management ●Tourism Information centre ●Real-time Air monitoring ●GPS based Vehicle Tracking Systems ●Variable Message Display (VMD) Board	
36.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Point No. 3 (c)	33	I	Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores. i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management vi. Tourism Information Centre vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems ix. Variable Message Display (VMD)Board	**Also requesting you kindly amend the clause like:** Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following (10) smart elements / smart solutions) with minimum value of INR 10 Crores. i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management / **Public Address System (PAS)** vi. Tourism Information Centre / **Smart e-Governance application** vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems / **Smart Transport Management** ix. Variable Message Display (VMD)Board **x. SCADA**	**Clause Amended as:** Please refer to the Corrigendum
37.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 3 (c)	33	I	c. Design, Installation, Operations and Maintenace of Integrated Operations Centre/ Command and Control center/ City Operations Centre/ City Surveillance Command Control Centre with integration of atleast 4 different smart elements/ smart solutions using ICCC software platform (out	Make ICCC for 5 Cr. value without having compultion of smart elements.	**Clause Amended as:** Please refer to the Corrigendum

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					of following nine (9) smart elements/smart solutions) with minimum value of INR 10 Crores i. Parking Sensors/Intelligent Parking ii. Air Quality Monitoring Systems iii. Solid Waste Management iv. Intelligent Lighting Systems/ Smart LED Light Systems v. Public Safety and Disaster Management vi. Tourism Information Centre vii. Real Time Air Monitoring viii. GPS Based Vehicle Traking System ix. Variable Message Display (VMD) System		
38.	Section 6 Evaluation of Eligibility Criteria	Table 6-1 Eligibility Criteria - Point No. 4	33	I	The sole bidder or any of the consortium members, should jointly possess any three of the below certifications which are valid at the time of bidding: a. ISO 9001:2008/ ISO 9001:2015 for Quality Management System b. ISO 14001:2015 for Environmental Management System c. ISO 20000:2011 for IT Service Management System d. ISO 27001:2013 for Information Security Management System e. CMMi Level 3 or above for Capability Maturity Model Integration Note: Each member of the consortium should possess atleast one of the above mentioned certifications	Misprint. Is CMM Leve 3 Mandatory?	**Clarification:** Tender conditions shall prevail
39.	Section 6 Evaluation of Eligibility Criteria	Evaluation of eligibility criterion Point No. 3 (c)	33	I	Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following (9) smart elements / smart solutions) with minimum value of INR 10 Crores		Query not clear
40.		Consortium Criteria Point No 1	35	I	The Lead bidder cannot be a partner in more than one consortium. In case of consortium, no company shall be allowed to participate in more than one bid i.e. they should have exclusive partners (except for the Network Service Provider) in case it is observed that any consortium have a common partner then such consortiums shall stand disqualified and under no	This criterion indicates that NSPs are preferred for this bid instead of System Integrators. To have quality and competitive bids we request to change this criterion and allow NSPs/ISPs to come as sub-contractor and their qualification can be allowed for bid evaluation. Also, if a company is part of one consortium, they cannot become part/member of another consortium. This is against CVC guidelines as well. We request to kindly amend the criteria as below:	**Clause Amended as:** Please refer to the Corrigendum

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					circumstances their bids shall be entertained.	The Lead bidder cannot be a partner in more than one consortium. In case of consortium, no company shall be allowed to participate in more than one bid. In case it is observed that any consortium have a common partner then such consortiums shall stand disqualified and under no circumstances their bids shall be entertained For criterion under "Evaluation of Eligibility Criteria; Table 6-1 Eligibility Criteria, 3 (d)", sub-contractor (ISP) qualifications will be allowed	
41.		Consortium Criteria Point No 4	35	I	The respective holding of each Consortium Member confirms to the response made by the Consortium and accepted by the Purchaser as part of the Proposal and that the Lead member shall not hold less than 51% of such equity and other members of the Consortium shall hold not less than 15% (Fifteen Per cent) of such Equity during the Contract Period	NA	**Clause Amended as:** Please refer to the Corrigendum
42.	Section 6 Evaluation of Eligibility Criteria	Evaluation Criteria	35	I	The Contract Agreement Shall be signed with all members of Consortium. Members of the consortium shall be Jointly and Severally Liable to ASCL for the execution of the project in accordance with the terms of the bid document and a statement of this shall be included in MoU/Cortortium Agreement.	Lead Bidder shall be jointly and severally responsible and bound towards the Authority for the performance of the works in accordance with the terms and conditions of the BID document or contract. Consortium members will be **responsible and liable only for their scope of work.** Justification: Bidder request to modify the clause in line with other smart city (Belgavi, varanasi, Gandhinagar, Warangal etc.) . A consortium member may have a very limited scope in the RFP and most of the reputed companies do not take responsibility of something which is not in their scope.	**Clarification:** Tender conditions shall prevail
43.	Section 6 Evaluation of Eligibility Criteria	Evaluation Criteria - Point No. 5	35	I	5. In case of a consortium, the maximum of bidders should not be more than 3 bidders including the Lead bidder.	Request you to please consider below modification: 5. In case of a consortium, the maximum of bidders should not be more than 3 4 bidders including the Lead bidder.	**Clarification:** Tender conditions shall prevail
44.	Section 6 Evaluation of Eligibility Criteria	Evaluation of Eligibility Criteria - Consortium Criteria - Point No. 9	36	I	The contract agreement shall be signed with all members of the Consortium. Members of the Consortium shall be jointly and severally liable to ASCL for the execution of the project in accordance with the terms of the bid document and a statement of this effect shall be included in the Memorandum of Understanding/ Consortium Agreement.	Kindly modify the clause to make the consortium partners of the bid to be **severally liable for the scope assigned to them**. Prime bidder to be jointly and severally liable for complete scope.	**Clarification:** Tender conditions shall prevail

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45.	Section 7 Evaluation of Technical Bids	NA	37	I	Additional Criteria	We request ASCL to allow Bidder to use Experience of its Parent / Subsidairy Company fot meeting the Clause 7 Evaluation of Technical Bids. For the purpose of evaluations, bidders are allowed to submit experience in terms of technica qualification of their holding (parent) company or subsidiary company or Sister Concern only. a. a 'holding companv, in relation to one or more other companies, means a company OH which such companies are subsidiary companies; and b. a 'subsidiary company' in relation to any other company (that is to say the holdinE company), means a company in which the holding company— (a) controls the composition Of the Board of Directors; or (b) exercises or controls more than one-half Of the total share capital at its own c. a 'sister concern' in relation to Bidder Company, means a company whose holding company is same as bidder's holding company and holding company (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own. In case the experience shown is that of the bidder's parent / subsidiary /sister concern company, then the following additional documents are required: • Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company.	**Clause Amended as:** Please refer to the Corrigendum
46.	Section 7 Evaluation of Technical Bids	NA	37	I	Additional Criteria	We request ASCL to allow Bidder to use Experience of on-going Projects for meeting the Clause 7 Evaluation of Technical Bids. In case of on-going Project, it must have achieved 80% of capex completion from financial and physical perspective. In such case, a certificate from Chartered Accountant/ Statutory Auditor certifying that requisite work/ contract value in terms of at least 80% of capex is completed.	**Clause Amended as:** Please refer to the Corrigendum
47.	Section 7 Evaluation of Technical Bids	Evaluation of Technical Bids	37	I	**Additional Clause**	**We request ASCL to allow Bidder to use Experience of its Parent / Subsidairy Company for meeting the Clause 7 Evaluation of Technical Bids.** For the purpose of evaluations, bidders are allowed to submit experience in terms of technical qualification of their holding (parent) company or subsidiary company or Sister Concern only. a. a 'holding company', in relation to one or more other companies, means a company of which such companies are subsidiary companies; and b. a 'subsidiary company' in relation to any other	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						company (that is to say the holding company), means a company in which the holding company— (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its own c. a 'sister concern' in relation to Bidder Company, means a company whose holding company is same as bidder's holding company and holding company (a) controls the composition of the Board of Directors; or (b) exercises or controls more than one-half of the total share capital at its ownIn case the experience shown is that of the bidder's parent / subsidiary /sister concern company, then the following additional documents are required: • Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company.	
48.	Section 7 Evaluation of Technical Bids	Evaluation of Technical Bids	37	I	**Additional Clause**	**We request ASCL to allow Bidder to use Experience of on-going Projects for meeting the Clause 7 Evaluation of Technical Bids.** In case of on-going Project, it must have achieved 80% of capex completion from financial and physical perspective. In such case, a certificate from Chartered Accountant/ Statutory Auditor certifying that requisite work/ contract value in terms of at least 80% of capex is completed.	**Clause Amended as:** Please refer to the Corrigendum
49.	Section 7 Evaluation of Technical Bids	Point No. A1	38	I	Average Annual Turnover of the Sole Bidder/Lead Bidder Average annual turnover over the last three financial years (2015-16, 2016-17 and 2017-18). Marks shall be allotted as given below: • More than INR 500 Crores = 6 marks • More than INR 400 Crores – up to INR 500 Crores = 4 marks • >= INR 300 Crores – up to 400 Crores = 2 marks Supporting Documents Required Certificate from the Statutory Auditor on turnover details from the over the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18)	Average Annual Turnover of the Sole Bidder/Lead Bidder Average annual turnover over the last three financial years (2015-16, 2016-17 and 2017-18). Marks shall be allotted as given below: • More than INR 500 Crores = 6 marks • More than INR 400 Crores – up to INR 500 Crores = 4 marks • >= INR 300 Crores – up to 400 Crores = 2 marks Supporting Documents Required Certificate from the Statutory Auditor on turnover details from the over the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18) **Note:** **Bidder's parent company financial qualification will be allowed if bidder is a wholly owned subsidiary of its parent company.**	**Clause Amended as:** Please refer to the Corrigendum
50.	Section 7 Evaluation of Technical Bids	Point No. A2	38	I	A2: Manpower: Full time employee on payroll of Sole bidder or as Consortium working in the business unit providing "IT/ITeS" as on bid	A2: Manpower: People in organization (Full time Employees – FTE in ICT projects Marks shall be allotted as given below:	**Clause Amended as:** Please refer to the Corrigendum

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					submission date Marks shall be allotted as given below: In case of Sole Bidder Sole Bidder shall be allotted marks as given below: • More than 500 full-time employees = 4 Marks • Between 401-500 = 3 Marks • Between 301-400 = 2 Marks • Between 200-300 = 1 Marks • Less than 200 = 0 Marks In case of Consortium Lead Bidder shall be allotted marks as given below: • More than 400 full-time employees = 3 Marks • Between 251-400 = 2 Marks • Between 100-250 = 1 Marks • Less than 100 = 0 Marks Consortium members (jointly) marks shall be allotted as given below: • More than 150 full-time employees = 1 Marks • Between 51-150 = 0.5 Marks • Less than 50 = 0 Marks	1) > 150 FTE – 4 Marks 2) > 100 FTE to <= 150 FTE – 3 Marks 3) > 50 FTE to <= 100 FTE - 2 Marks Submission of HR certificate stating the same	
51.	Section 7 Evaluation of Technical Bids	Point No. A1	38	I	Average Annual Turnover of the Sole Bidder/Lead Bidder Average annual turnover over the last three financial years (2015-16, 2016-17 and 2017-18). Marks shall be allotted as given below: • More than INR 500 Crores = 6 marks • More than INR 400 Crores – up to INR 500 Crores = 4 marks • >= INR 300 Crores – up to 400 Crores = 2 marks Supporting Documents Required Certificate from the Statutory Auditor on turnover details from the over the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18)	Average Annual Turnover of the Sole Bidder/Lead Bidder Average annual turnover over the last three financial years (2015-16, 2016-17 and 2017-18). Marks shall be allotted as given below: • More than INR 500 Crores = 6 marks • More than INR 400 Crores – up to INR 500 Crores = 4 marks • >= INR 300 Crores – up to 400 Crores = 2 marks Supporting Documents Required Certificate from the Statutory Auditor on turnover details from the over the last three (3) financial years (FY 2015-16, 2016-17 and 2017-18) **Note:** **Bidder's parent company financial qualification will be allowed if bidder is a wholly owned subsidiary of its parent company.**	**Clause Amended as:** Please refer to the Corrigendum
52.	Section 7 Evaluation of Technical Bids	Evaluation of Technical Bids - Point No. A1	38	I	Average annual turnover over the last three financial years (2015-16, 2016-17 and 2017-18). Marks shall be allotted as given below: More than INR 500 Crores = 6 Marks More than INR 400 Crores- up to INR 500	We request the authority to reduce the turnover to help competitive bidder's with field expertise to achieve more score and become qualified bidder's. So we request to modify the turnover criteria as shown below. More than INR 400 Crores = 6 Marks More than INR 300 Crores- up to INR 400 Crores =	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					Crores = 4Marks >= 300 Crores- up to 400 Crores = 2 Marks	4Marks >= 200 Crores- up to 300 Crores = 2 Marks	
53.	Section 7 Evaluation of Technical Bids	Point No. B	39	I	Supporting Documents Required Work order OR Contract clearly highlighting the Scope of Work, Bill of Material and value of the Contract/order OR Self-certificate from the Bidder mentioning the Scope of Work, Bill of Material and value of the Contract/order, signed by authorized signatory of the Bidder for this bid Note: Bidder shall mention disclaimer under each Self certificate that Bidder cannot submit Work Order or Contract due to NDA signed with respective client AND ii. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letterhead OR Copies of payments received against the work order/Purchase Order signed by the Statutory Auditor of the Bidder or any other document certifying the completion of the project Note: In case of a turnkey project comprising of application development and IT Infrastructure, the Bidder is required to submit a certificate from Statutory Auditor/ Company Secretary specifying the value of the respective business area.	Supporting Documents Required Documentary Evidence Work order OR Contract clearly highlighting the Scope of Work, Bill of Material and value of the Contract/order OR Self-certificate from the Bidder mentioning the Scope of Work and value of the Contract/order, signed by authorized signatory of the Bidder for this bid Note: Bidder shall mention disclaimer under each Self certificate that Bidder cannot submit Work Order or Contract due to NDA signed with respective client AND ii. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letterhead OR Supporting Documents Required Documentary Evidence Work order OR Contract clearly highlighting the Scope of Work, Bill of Material and value of the Contract/order OR Self-certificate from the Bidder mentioning the Scope of Work, Bill of Material and value of the Contract/order, signed by authorized signatory of the Bidder for this bid Note: Bidder shall mention disclaimer under each Self certificate that Bidder cannot submit Work Order or Contract due to NDA signed with respective client AND ii. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letterhead OR **In case project is on-going a certificate from the Charted Accountant/Statutory Auditor has to be provided mentioning that 80% of Capex is complete.** OR Copies of payments received against the work order/Purchase Order signed by the Statutory Auditor of the Bidder or any other document certifying the completion of the project.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						Note: In case of a turnkey project comprising of application development and IT Infrastructure, the Bidder is required to submit a certificate from Statutory Auditor/ Company Secretary specifying the value of the respective business area. **Note: In case bidder/prime bidder is a wholly owned subsidiary, the experience of parent/subsidiary/sister concern company would be considered for eligibility** **• Certificate signed by the Company Secretary/statutory Auditor/2 Board of Directors of the bidder certifying that the entity whose experience is shown is parent/subsidiary/sister concern Company.** **• Shareholding pattern of the bidding entity as per audit reports.**	
54.	Section 7 Evaluation of Technical Bids	Point No. B1	39	I	The Sole Bidder or any of Consortium members should have experience in Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores out of which one (1) project should have completed during last 7 years as on bid submission date a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores • Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) • ANPR Systems • Face Recognition System (FRS) Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not	The Sole Bidder or any of Consortium members should have experience in India / Abroad of executing at least two (2) projects per business area in minimum of two (2) following "Specific Business Areas" out of which one (1) project should have been completed during the last 7 years as on bid submission date: a. Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores • Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Counting & Classifying, Wrong way driving, Violation Detection, Speed Detection, Motion Detection, Congestion Detection - **Any 4 Edge Analytics)** • ANPR Systems • Face Recognition System (FRS) Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance Systems	**Clause Amended as:** Please refer to the Corrigendum

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					be considered an experience for City-wide Video Surveillance Systems		
55.	Section 7 Evaluation of Technical Bids	Point No. B1	39	I	Design, Installation and Operations & Maintenance of Integrated Operations Centre /Command and Control Centre /City Operations Centre / City Surveillance Command Centre with integration of different smart elements / smart solutions. The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre /City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following smart elements / smart solutions) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date • Parking Sensors / Intelligent Parking • Air Quality Monitoring Stations • Solid Waste Management • Intelligent Lighting systems / Smart LED street lights • Public safety and Disaster Management • Tourism Information Centre • Real-time Air Monitoring • GPS based Vehicle Tracking systems • Variable Message Display (VMD) Board	Design, Installation and Operations & Maintenance of Integrated Operations Centre /Command and Control Centre /City Operations Centre / City Surveillance Command Centre with integration of different smart elements / smart solutions The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions ~~with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date~~ using ICCC software platform (out of the following **(8) smart elements / smart solutions**). i. **Adaptive Traffic Control System (ATCS)** ii. **GIS based Platform** iii. **Metrological/Environmental Monitoring System** iv. **Traveler Information System** v. **Public Website/Mobile Application** vi. **Transit Planning Module** vii. **Integration with Emergency Response System** viii. **Integration with SCADA based Systems**	**Clause Amended as:** Please refer to the Corrigendum
56.	Section 7 Evaluation of Technical Bids	Evaluation of Technical Bids - Point No. B1	39	I	The Sole Bidder or any of Consortium members should have experience in Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores out of which one (1) project should have completed during last 7 years as on bid submission date. · Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores	**Also requesting you kindly amend the clause like:** The Sole Bidder or any of Consortium members should have experience in Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores out of which one (1) project should have completed during last 7 years as on bid submission date · Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores · Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended	**Clause Amended as:** Please refer to the Corrigendum

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					· Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un-Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) · ANPR Systems · Face Recognition System (FRS)	Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) · ANPR Systems · Face Recognition System (FRS) **. Speed Violation**	
57.	Section 7 Evaluation of Technical Bids	Table 7-1 Technical Evaluation Criteria - Point No. B1	39	I	THe sole bidder or any member of the consortium shall have an experience in supply, installation, operations and maintenance of city wide video surveillance systems (including any two out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores out of which one project shall be completed within last seven years as on the bid submission date • Video Analytics (Crowd Detection and people counting in camera view, face masking, Un-attended Objects, Vehicle Count, Wrong Way Driving, Motion Detection, Congestion Detection) • ANPR Systems • FRS Systems Note: CCTV Installations at Transport Hubs (airports, Railway Stations, Harbour, Cargo HUb, Educational Institutions, Industrial HOuses, Manufacturing Plants and Residential Colonies etc. shall not be considered as an experience for City wide CCTV Installation	Reduce value of Work order from 10 Cr. to 5 Cr.	**Clause Amended as:** Please refer to the Corrigendum
58.	Section 7 Evaluation of Technical Bids	Table 7-1 Technical Evaluation Criteria - Point No. B1	39	I	The Sole Bidder or any of Consortium members should have experience in Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores out of which one (1) project should have completed during last 7 years as on bid submission date • Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores • Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un- Attended Objects, Vehicle	**Request you to please consider below modification:** The Sole Bidder or any of Consortium members should have experience in Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including ~~any two (2)~~ **any one** out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores out of which one (1) project should have completed during last 7 years as on bid submission date • Supply, Installation, Operations and Maintenance of City Wide video surveillance systems (including any two (2) out of the following sub-systems connected by IP network) with minimum value of INR 10 Crores • Video Analytics (Crowd Detection and People Counting in Camera View, Face Masking, Un- Attended Objects, Vehicle Count, Wrong way driving, Motion Detection, Congestion Detection) • ANPR Systems • Face Recognition System (FRS)	**Clause Amended as:** Please refer to the Corrigendum

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					Count, Wrong way driving, Motion Detection, Congestion Detection) • ANPR Systems • Face Recognition System (FRS) Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance Systems	~~Note: CCTV implementations at Transport hubs (such as Airports, Railway Stations, Harbour, Cargo Hub), Educational Institutions (such as Universities, Schools, Colleges), Industrial Houses, Manufacturing Plants, Residential Colonies etc. shall not be considered an experience for City-wide Video Surveillance Systems~~ ~~**Justification**~~ ~~**Request you to kindly relax the clause as it will allow our participation**~~	
59.	Section 7 Evaluation of Technical Bids	B Project Experience,B3	40	I	Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of different smart elements / smart solutions The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following smart elements / smart solutions) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date · Parking Sensors / Intelligent Parking · Air Quality Monitoring Stations · Solid Waste Management · Intelligent Lighting systems / Smart LED street lights · Public safety and Disaster Management · Tourism Information Centre · Real-time Air Monitoring · GPS based Vehicle Tracking systems · Variable Message Display (VMD) Board	It may be noted that GIS , Surveillance and Scada are equally important for city operations and governance and hence request you to consider adding the same in clause. Additionally these integrations are the part of Amritsar Smart city during phase 1 and phase 2. Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of different smart elements / smart solutions The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following smart elements / smart solutions) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date · Parking Sensors / Intelligent Parking · Air Quality Monitoring Stations · Solid Waste Management · Intelligent Lighting systems / Smart LED street lights · Public safety and Disaster Management · Tourism Information Centre · Real-time Air Monitoring/Environmental Sensors · GPS based Vehicle Tracking systems · Variable Message Display (VMD) Board · **GIS**	**Clause Amended as:** Please refer to the Corrigendum

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						· Surveillance Camera **· Scada**	
60.	Section 7 Evaluation of Technical Bids	Evaluation of Technical Bids - Point No. B3	40	I	The Sole Bidder or any of the Consortium members should have experience in Design, Installation and Operations & maintenance of Integrated Operations Centre/ Command and Control Centre/City Operations Centre/City Surveillance Command Centre with integration of at least four (4) different smart elements/smart solutions using ICCC software platform (out of the following smart elements/smart solutions) with minimum value of INR 10 Crores out of which one (1) projects should have been completed during last 7 years as on bid submission date. ●Parking Sensors/Intelligent Parking ●Air quality monitoring stations ●Solid waste Management ●Intelligent Lighting systems/Smart LED street lights ●Public safety and Disaster management ●Tourism Information centre ●Real-time Air monitoring ●GPS based Vehicle Tracking Systems ●Variable Message Display (VMD) Board	Requesting authority to include various other relevant smart components and revise clause as below: The Sole Bidder or any of the Consortium members should have experience in Design, Installation and Operations & maintenance of Integrated Operations Centre/ Command and Control Centre/City Operations Centre/City Surveillance Command Centre with integration of at least four (4) different smart elements/smart solutions using ICCC software platform (out of the following smart elements/smart solutions) with minimum value of INR 10 Crores out of which one (1) projects should have been completed during last 7 years as on bid submission date. ●**Traffic enforcement systems** ●**Traffic classifier and counter system** ●**Video surveillance System** ●**ECB/ panic Buttons** ●**Incident/emergency management** ●Parking Sensors/Intelligent Parking ●Air quality monitoring stations ●Solid waste Management ●Intelligent Lighting systems/Smart LED street lights ●Public safety and Disaster management ●Tourism Information centre ●Real-time Air monitoring ●GPS based Vehicle Tracking Systems ●Variable Message Display (VMD) Board	**Clause Amended as:** Please refer to the Corrigendum
61.	Section 7 Evaluation of Technical Bids	Evaluation of Technical Bids - Point No. B2	40	I	The Sole Bidder or any of Consortium members should have experience in Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (certified by Uptime Institute for facility management and/or design) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date. Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered.	Requesting you kindly consider Tier II or above certificate from other certified body also.	**Clause Amended as:** Please refer to the Corrigendum

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62.	Section 7 Evaluation of Technical Bids	Table 7-1 Technical Evaluation Criteria - Point No. B3	40	I	The sole bidder or any of the consortium member shall have an experience in Design, Installation, Operations and Maintenace of Integrated Operations Centre/ Command and Control center/ City Operations Centre/ City Surveillance Command Control Centre with integration of atleast 4 different smart elements/ smart solutions using ICCC software platform (out of following nine (9) smart elements/smart solutions) with minimum value of INR 10 Crores out of which one project shall be completed within last seven years as on the bid submission date i. Parking Sensors/Intelligent Parking ii. Air Quality Monitoring Systems iii. Solid Waste Management iv. Intelligent Lighting Systems/ Smart LED Light Systems v. Public Safety and Disaster Management vi. Tourism Information Centre vii. Real Time Air Monitoring viii. GPS Based Vehicle Traking System ix. Variable Message Display (VMD) System	Reduce value of Work order from 10 Cr. to 5 Cr.	**Clause Amended as:** Please refer to the Corrigendum
63.	Section 7 Evaluation of Technical Bids	Table 6-1 Technical Evaluation Criteria - Point No. B3	40	I	Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre /City Operations Centre / City: The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following smart elements / smart solutions) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date • Parking Sensors / Intelligent Parking • Air Quality Monitoring Stations • Solid Waste Management • Intelligent Lighting systems / Smart LED street lights • Public safety and Disaster Management • Tourism Information Centre • Real-time Air Monitoring	Recommend the clause be amended as: **The bidder / consortium member of proposed Command & control Centre Platform should have successfully implemented in at least one project with one smart city in India, as on date of bid submission, with at least 10 or more different smart application integrations (in a single project) covering bi- directional integration (centrally command, controlled and operated by Command & control Centre platform) mandatorily having any four of the below:** **• City Surveillance System** **• Smart Governance** **• Parking System** **• Intelligent Traffic Management System** **• Water / Power SCADA** **• Access Control System /Building Management** **• Smart Lighting/LED lights** ** 10 marks** **• Integration of 10 or more smart features covering bi- directional integration (centrally command, controlled and operated by Command & control Centre platform) mandatorily having 4 of the above: 10 marks** **• Integration of 07 to 09 smart features covering bi- directional integration (centrally command,**	**Clause Amended as:** Please refer to the Corrigendum

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					• GPS based Vehicle Tracking systems • Variable Message Display (VMD) Board	**controlled and operated by ICCC platform) mandatorily having 3 of the above: 8 marks** **• Integration of 04 to 06 smart features covering bi-directional integration (centrally command, controlled and operated by ICCC platform) mandatorily having 2 of the above: 5 mark**	
64.	Section 7 Evaluation of Technical Bids	Table 7-1 Technical Evaluation Criteria - Point No. B2	40	I	The Sole Bidder or any of Consortium members should have experience in Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (certified by Uptime Institute for facility management and/or design) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date. Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered.	Request you to please consider below modification: The Sole Bidder or any of Consortium members should have experience in Design, Supply, Installation and Operations & Maintenance of IT Infrastructure, networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (~~certified by Uptime Institute for facility management and/or design~~) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date. Note: Bidders who have built their own Data Centre (DC) for commercial use shall be considered.	**Clause Amended as:** Please refer to the Corrigendum
65.	Section 7 Evaluation of Technical Bids	Table 7-1 Technical Evaluation Criteria - Point No. B2	40	I	Bidders who have bult their own Data Centre for commercial use shall be considered	Request the authorities to please provide clarity on following point: Data Center including Servers- Storage Infrastructure: BSNL is a MeiTY empanelled cloud service provider having 6 internet cloud data centers across the country. Being a cloud service provider, BSNL offers services like data center co-hosting, infrastructure as a service, platform as a service and software as a service to multiple government and private instituions. Request the authotities to please clarify if DC/DR server and storage cloud hosting experience would be considered or not.	**Clarification:** The experience of such bidders shall be considered if intended for Commercial Usage. In such a case documentary evidence as listed in "Table 6 1 Eligibility Criteria" shall have to be furnished
66.	Section 7 Evaluation of Technical Bids	Evaluation of Technical Bids - Point No. B3	41	I	The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following smart elements / smart solutions) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as	Also requesting you kindly amend the clause like: Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following **(10) smart elements / smart solutions)** with minimum value of INR 10 Crores. i. Parking Sensors / Intelligent Parking ii. Air Quality Monitoring Stations iii. Solid Waste Management	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					on bid submission date. · Parking Sensors / Intelligent Parking · Air Quality Monitoring Stations · Solid Waste Management · Intelligent Lighting systems / Smart LED street lights · Public safety and Disaster Management · Tourism Information Centre · Real-time Air Monitoring · GPS based Vehicle Tracking systems · Variable Message Display (VMD) Board	iv. Intelligent Lighting systems / Smart LED street lights v. Public safety and Disaster Management / **Public Address System (PAS)** vi. Tourism Information Centre / **Smart e-Governance application** vii. Real-time Air Monitoring viii. GPS based Vehicle Tracking systems / **Smart Transport Management** ix. Variable Message Display (VMD)Board **x. SCADA**	
67.	Section 7 Evaluation of Technical Bids	Table 7-1 Technical Evaluation Criteria - Point No. B3	41	I	The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following smart elements / smart solutions) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date • Parking Sensors / Intelligent Parking • Air Quality Monitoring Stations • Solid Waste Management • Intelligent Lighting systems / Smart LED street lights • Public safety and Disaster Management • Tourism Information Centre • Real-time Air Monitoring • GPS based Vehicle Tracking systems • Variable Message Display (VMD) Board	Request you to please consider below modification: The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre /City Surveillance Command Centre with integration of at least ~~four (4)~~ **one** different smart elements / smart solutions using ICCC software platform (out of the following smart elements / smart solutions) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date • Parking Sensors / Intelligent Parking • Air Quality Monitoring Stations • Solid Waste Management • Intelligent Lighting systems / Smart LED street lights • Public safety and Disaster Management • Tourism Information Centre • Real-time Air Monitoring • GPS based Vehicle Tracking systems • Variable Message Display (VMD) Board	**Clause Amended as:** Please refer to the Corrigendum
68.	Section 7 Evaluation of Technical Bids	Table 6-1 Technical Evaluation Criteria - Point No. C1	42	I	Approach & Methodology: Demonstration of Bidder's understanding of the scope of work and all aspects of the Project	**Recommend the clause be amended to include Proof of Concept (25 Marks)** **We recommend that a bidders capabilities can be illustrated through a successful demonstration of the Solution, hence suggest that additional 25 marks be allocated for Demonstrations** **Some of the integrations should be included to make the ICCC Platform complete & future ready** 1. Platform Demonstration – 10 Marks a. Demonstrate how policies and events can be configured and executed on Smart City Platform – 4 Marks	**Clause Amended as:** Please refer to the Corrigendum

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						b. Demonstrate the ability to automate the process for incident response – 3 Marks c. Demonstrate that the platform has a pluggable architecture (Example plugin a new GIS engine with no effect to any other modules / policies in the platform) – 3 Marks **2. Sub System Integration with ICCC platform Demonstration – 5 Marks** a. CCTV surveillance solution – 1 Mark b. IBMS solution – 1 Mark c. LED Street Light solution – 1 Mark d. Water SCADA – 1 Marks e. Energy SCADA – 1 Mark **3. Sub system control from ICCC platform demonstration – 10 Marks** a. CCTV surveillance solution controls – 2.5 Marks b. IBMS solution with controls – 2.5 Marks c. LED Street Light solution with controls – 2.5 Marks d. Water SCADA with controls – 2.5 Marks	
69.	Section 7 Evaluation of Technical Bids	Table 6-1 Technical Evaluation Criteria - Point No. D	42	I	Resources (for evaluation purpose) (Max Marks: 30)	Have been allocated 30 marks , which may be adjusted for the above marking which is of relevance	**Clause Amended as:** Please refer to the Corrigendum
70.	Section 7 Evaluation of Technical Bids	Table 7 3 Evaluation of resources	45	I	Additional point: Penalty on resource replacement	NA	**Clause Amended as:** Please refer to the Corrigendum
71.	Section 9 Annexure I: Manpower Details	1. Project Manager - IT Infrastructure	48	I	1. Project Manager - IT Infrastructure 1. B.E./B, Tech. / M.Tech degree with MBA from a recognised university 2. Minimum 12 years of experience in IT infrastructure/ Data Centre / Smart City Solutions / Surveillance out of which at least 6 years of experience of leading large ICT implementation projects as a Project Manager 3. Should have experience of working in Government sector with minimum of 2 of leading large IT infrastructure / Data Centre / Smart City Solutions / Surveillance projects of similar scale. 4. Should possess Industry accredited certifications like PMP or Prince 2 certified	The qualification criteria are too stringent. We request ASCL to relax the requirement and modify the same as under: 1. Project Manager - IT Infrastructure 1. B.E./B. Tech. / M. Tech degree with MBA from a recognised university 2. Minimum 12 years of experience in IT infrastructure/ Data Centre / Smart City Solutions / Surveillance out of which at least 6 years of experience of leading large ICT implementation projects as a Project Manager 3. Should have experience of working in Government sector with minimum of 2 of leading large IT infrastructure / Data Centre / Smart City Solutions / Surveillance projects of similar scale. 4. Should possess Industry accredited certifications like PMP or Prince 2 certified **or Equivalent.**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
72.	Section 9 Annexure I: Manpower Details	2. Technical Lead - IT Infrastructure	48	I	2. Technical Lead — IT Infrastructure 1. B.E./ B. Tech. / M. Tech with MBA degree from a recognised university 2. Minimum 10 years of experience in IT infrastructure out of which at least 5 years of experience in Data Centre / Smart City Solutions / Surveillance projects 3. Should have experience of working in Government sector as Technical lead in minimum 2 projects in IT infrastructure / Data Centre / Smart City Solutions / Surveillance 4. Industry accredited certifications like MCSE, MSCD, CCNA or certifications from OEM products	The qualification criteria are too stringent. We request ASCL to relax the requirement and modify the same as under: 2. Technical Lead — IT Infrastructure 1. B.E./ B. Tech. / M.Tech ~~with MBA~~ from a recognised university 2. Minimum 10 years of experience in IT infrastructure out of which at least 5 years of experience in Data Centre / Smart City Solutions / Surveillance projects 3. Should have experience of working in Government sector as Technical lead in minimum **2** projects in IT infrastructure / Data Centre / Smart City Solutions / Surveillance ~~4. Industry accredited certifications like MCSE, MSCD, CCNA or certifications from OEM products~~	**Clause Amended as:** Please refer to the Corrigendum
73.	Section 9 Annexure I: Manpower Details	1. Project Manager - IT Infrastructure	48	I	1. Project Manager - IT Infrastructure B.E./B. Tech. / M.Tech degree with MBA from a recognised university Minimum 12 years of experience in IT infrastructure/ Data Centre / Smart City Solutions / Surveillance out of which at least 6 years of experience of leading large ICT implementation projects as a Project Manager Should have experience of working in Government sector with minimum of 2 of leading large IT infrastructure / Data Centre / Smart City Solutions / Surveillance projects of similar scale.	1. Project Manager - IT Infrastructure B.E./B. Tech. with M.Tech/MBA from a recognised university **Minimum 10 years** of experience in IT infrastructure/ Data Centre / Smart City Solutions / Surveillance out of which at least 6 years of experience of leading large ICT implementation projects as a Project Manager Should have experience of working in Government sector with minimum of 2 of leading large IT infrastructure/ ICT/ ITS/ Data Centre / Smart City Solutions / Surveillance projects of similar scale.	**Clause Amended as:** Please refer to the Corrigendum
74.	Section 9 Annexure I: Manpower Details	2. Technical Lead - IT Infrastructure	48	I	2. Technical Lead – IT Infrastructure B.E./ B. Tech. / M.Tech with MBA degree from a recognised university Minimum 10 years of experience in IT infrastructure out of which at least 5 years of experience in Data Centre / Smart City Solutions / Surveillance projects Should have experience of working in Government sector as Technical lead in minimum 2 projects in IT infrastructure / Data Centre / Smart City Solutions / Surveillance	2. Technical Lead – IT Infrastructure B.E./B. Tech. with M.Tech**/MBA** from a recognised university Minimum **8 years** of experience in IT infrastructure out of which at least **4 years** of experience in Data Centre / ICT/ ITS/ Smart City Solutions / Surveillance projects Should have experience of working in Government sector as Technical lead in **minimum 1** project in IT infrastructure / Data Centre/ ICT/ ITS / Smart City Solutions / Surveillance	**Clause Amended as:** Please refer to the Corrigendum
75.	Section 9 Annexure I: Manpower Details	3. System Admin L2	48	I	3. System Admin- L2 B.E./B. Tech./ M.Tech degree from a recognized university Minimum 6 years of IT experience out of which 3 years of experience as System Administrator	3. System Admin- L2 B.E./B. Tech./ M.Tech/**MCA** degree from a recognized university Minimum **5 years** of IT experience out of which 3 years of experience as System Administrator	**Clause Amended as:** Please refer to the Corrigendum

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76.	Section 9 Annexure I: Manpower Details	4. Network Administrator L2	49	I	4. Network Administrator - L2 B.E./B. Tech. / M. Tech degree from a recognized university Minimum 6 years of IT experience out of which 3 years of experience as Network Administrator	4. Network Administrator - L2 B.E./B. Tech. / M. Tech/ **MCA degree** from a recognized university **Minimum 5 ye**ars of IT experience out of which 3 years of experience as Network Administrator	**Clause Amended as:** Please refer to the Corrigendum
77.	Section 9 Annexure I: Manpower Details	5. Security Specialist - L2	49	I	5. Security Specialist - L2 B.E./B. Tech./ M. Tech degree from a recognized university	5. Security Specialist - L2 B.E./B. Tech. /~~M. Tech~~ degree from a recognized university	**Clause Amended as:** Please refer to the Corrigendum
78.	Section 9 Annexure I: Manpower Details	6. DB Administrator - L2	50	I	6. DB Administrator - L2 B.E./B. Tech. / M. Tech degree from a recognized university	6. DB Administrator - L2 B.E./B. Tech. / M. Tech / **MCA degree** from a recognized university	**Clause Amended as:** Please refer to the Corrigendum
79.	Section 9 Annexure I: Manpower Details	7. Video Analyst / IP camera Surveillance Expert - L3	50	I	7. Video Analyst / IP camera Surveillance Expert - L3 B.E./B. Tech. / M. Tech degree from a recognized university	7. Video Analyst / IP camera Surveillance Expert - L3 B.E./B. Tech//~~M. Tech.~~ degree from a recognized university	**Clause Amended as:** Please refer to the Corrigendum
80.	Section 9 Annexure I: Manpower Details	8. Software Developer (Full Stack Developer) - L3	51	I	8. Software Developer (Full Stack Developer) - L3 B.E./B. Tech. / M. Tech degree from a recognized university Minimum 8 years' experience as a Full Stack Developer with experience in middleware, database integration and front-end development Industry accredited certifications like MCSD, Oracle Certified Expert/Professional Should have minimum 1-year experience on projects related to ICCC command control software Should have more than 3 years of experience in middleware integration projects and API based integration	8. Software Developer (Full Stack Developer) - L3 B.E./B. Tech. / M. Tech/ **MCA degree** from a recognized university **Minimum 3 year**s' experience as a Full Stack Developer with experience in middleware, database integration and front-end development ~~Industry accredited certifications like MCSD, Oracle Certified Expert/Professional~~ ~~Should have minimum 1-year experience on projects related to ICCC command control software~~ Should have **1 years** of experience in middleware integration projects and API based integration	**Clause Amended as:** Please refer to the Corrigendum
81.	Section 10.5 Form A.4: Consortium Agreement	Form A4 (Consortium Agreement)	64	I	The parties do hereby undertake to be risk and severally responsible for all obligations and liabilities relating to the project and in accordance with the terms of the RFP and contract for the performance of the contract	Request the authorities to **remove Joint and Severally responsible clause.** The liability of the consortium members should be limited to the scope of work of the consortium member. Since the lead bidder would be the major driving force in the entire implementation and operations phase, the entire liability of the project should be borne by the lead bidder. Considering the size of the project **JSL**, clause will restrict the participation of MSMEs as a consoritum member in the bid. Hence request the authorities to remove this clause	**Clarification:** Tender conditions shall prevail
82.	Section 10.23 Commercial Bid Format	Commercial Bid Format	88	I	CAPEX and OPEX ratio shall be reasonable and realistic, a bid shall not be considered for Final Evaluation, if the total CAPEX	Request the authorties the kindly increase **CAPEX-OPEX ratio in 70-30% ratio** as initial hardware deployment and capital expenditure is high in such Integrated Command and Control.Therefore, we would	**Clause Amended as:** Please refer to the Corrigendum

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					value happens to be more than 50% of the overall bid value	request the authorities to kindly allow for 70-30% CAPEX- OPEX ratio.	
83.	Section 11 Annexure III: Indicative bill of material	Annexure III: Indicative bill of material	102	I		We understand that there is a requirement of GIS platform technology & engine that would ba common platform for all the smartCity componnets and to manage the Amritsar smart city GIS map data. Please add GIS platform as a line item in Bil of material.	**Clarification:** Tender conditions shall prevail
84.	Section 11 Annexure III: Indicative bill of material	Indicative Bill of Material - Point No. A.4	102	I	NA	In tender there are 2 types of Industrial Grade Switches i.e. 16 Port and 8 Port, however Qty for 8 Port switches in not defined in the BOQ	**Clause Amended as:** Please refer to the Corrigendum
85.	Section 11 Annexure III: Indicative bill of material	Indicative Bill of Material	102	I	Proposed Bill of Material	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)	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
86.	Section 11 Annexure III: Indicative bill of material	Annexure III: Indicative Billl of material	102	I	Data Center Hardware - General query	Please tell if we can host non-surveillance applications of this RFP on public cloud offered by Meity empaneled CSPs. It is somewhat ambiguous in the RFP. If we can host those apps on cloud, where should we fill that price in the BOM? Section C line items in BOM or Section E line items in BOM?	**Clarification:** Only the DR site shall be hosted only on the MeitY empanelled CSP
87.	Section 11 Annexure III: Indicative bill of material	Annexure III - Indicative Bill of Material	102	I	Annexure III: Indicative Bill of Material	We understand that there is a requirement of GIS platform technology & engine that would ba common platform for all the smartCity componnets and to manage the Amritsar smart city GIS map data. Please add GIS platform as a line item in Bil of material.	**Clarification:** Tender conditions shall prevail
88.	Section 11 Annexure III: Indicative bill of material	Indicative Bill of Material	102	I	Proposed Bill of Material	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)	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
89.	Section 11 Annexure III: Indicative bill of material	Indicative Bill of Meterial Point No. A.4 - 2	103	I	16 Port PoE Industrial grade Junction box	As per technical specifications two types of switches are asked but in commercial format line item & quantity is missing for 8 port Switch category. So does it mean vendors who are quoting 2x8 port switch for 16 port category switch need to have these compliance minimum. Kindly confirm. Remarks: Some of the important security & general features are missing in 16 port switch category so request either add missing features in 16 port switch category too or make it mandatory to comply 8 port switch compliance too in 16 port switch.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
90.	Section 11 Annexure III: Indicative bill of material	Annexure 3: Indicative bill of material in VOL 1	105	I	C2: Network & Security, line item 8: Advanced Malware Sandboxing	No minimum technical specs. Mentioned in RFP for Malware sandboxing but mentioned as technical requirements in firewalls, web security & antivirus components. Request authorities to confirm, is bidder allowed to propose standalone malware sandboxing unit as per the indicative BOQ ? Please provide minimum technical specs	**Clarification:** Tender conditions shall prevail
91.	Section 11 Annexure III: Indicative bill of material	Annexure III: Indicative Bill of Material - Point No. D(D1) - 2	107	I	Document/Content Management System	NA	**Clause Amended as:** Please refer to the Corrigendum
92.	Section 11 Annexure III: Indicative bill of material	Annexure III: Indicative Billl of material - Point No. D3	108	I	RFP section - D3 Datacenter infrastructure management software , server OS licenses.	The **hybrid cloud solution** will again be of help in simplifying your task of buying 5-6 different hardware/software components. It is a single bundled solution with both hardware+software that is much superior and cheaper. This solution will have physical servers in ASCL datacenter, that can take care of all virtualization, management license, OS license, DB license on subscription model.	**Clarification:** Tender conditions shall prevail
93.	Section 11 Annexure III: Indicative bill of material	Annexure III: Indicative Billl of material - Point No. D3	108	I	RFP section - D3 Datacenter infrastructure management software , server OS licenses. You have asked for 5 categories of software.	We would like ASCL to explore a single hardware+software bundled solution that is much superior and cheaper. This solution will have physical servers in ASCL datacenter, that can take care of all virtualization, management license, OS license, DB license on subscription model	**Clarification:** Tender conditions shall prevail
94.	Section 11 Annexure III: Indicative bill of material	Annexure III: Indicative Billl of material - Point No. D3	108	I	RFP section - D3 Datacenter infrastructure management software , server OS licenses. You have asked for 5 categories of software.	Kindly add the line item for DB licenses, as it is missing here. Also recommend you to include enterprise version licensing for same in order to achieve the specified RPO and RTO of 1 and 4 hours.	**Clarification:** Tender conditions shall prevail. Bidder shall be required to provide better solution as per solution requirement
95.	Section 11 Annexure III: Indicative bill of material	Annexure III: Indicative Billl of material - Point No. E	109	I	E. Cloud hosting	Please tell that against this line item - should we quote our DR prices or mix of both DC,DR	**Clarification:** The Bidder shall be required to quote cloud hosting prices for DR only
96.	Section 11	Annexure III: Indicative Bill of Material - Point No. F (8)	110	I	DR Link Connectivity Charges	NA	**Clause Amended as:** Please refer to the Corrigendum
97.	Section 12 Annexure IV: Key Requirements for OEMs/ Principals/Product Vendors	Surveillance System - Point No. 8	111	I	The Unit shall provide centralized certificate management with both pre installed CA certificates & ability to upload additional CA certificates . The Certificates shall be signed by an organization providing digital trust Services	Request to Clarify and change this clause , it for PO Copy and it is validate on CA Certificates for attached PO . **Justification**:-	**Clarification:** Tender conditions shall prevail

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						Kindly consider as OEM we can provide past PO copy as reference and it will be validated by CA certifciate .	
98.	Section 12 Annexure IV: Key Requirements for OEMs/ Principals/Prod uct Vendors	Surveillance System - Point No. 2	111	I	2. The network cameras for 720P HD and 1080P HD supplied must meet the SMTPE video standards: SMTPE 296M (HDTV 720p) & SMTP 274M HDTV 1080P)	Request you to kindly remove this clause as it is OEM specific and not available with all the reputed OEM for Camera. This clause would restrict many Reputed Camera OEMs from Participating in this bid	**Clarification:** Tender conditions shall prevail
99.	Section 12 Annexure IV: Key Requirements for OEMs/ Principals/Prod uct Vendors	Surveillance System - Point No. 3	111	I	a. ISO/IEC 23008–2, ITU-T H.265 or b. ISO/IEC 14496-10 AVC (H.264) video compression standards with suitable optimization to achieve 3 Mbps or lower bit rate at 1920 X 1020 resolution at 30 frames per second.	Request you to kindly remove this clause as it is OEM specific and not available with all the reputed OEM for Camera. This clause would restrict many Reputed Camera OEMs from Participating in this bid	**Clarification:** Tender conditions shall prevail
100.	Section 12 Annexure IV: Key Requirements for OEMs/ Principals/Prod uct Vendors	Surveillance System - Point No. 4	111	I	4. The network cameras supplied must meet the IEC 60529 (IP66) environmental protection standards	Request to kindly change IP 66 to IP67 which is the latest and better ingress protection rating. For the Outdoor Fixed Box camera IP68 rating for the Housing of the camera must be asked as it would face extreme weather conditions	**Clarification:** Tender conditions shall prevail. Bidder shall be required to provide better solution as per solution requirement
101.	Section 12 Annexure IV: Key Requirements for OEMs/ Principals/Prod uct Vendors	Surveillance System - Point No. 8	111	I	8. The unit shall provide centralized certificate management, with both pre-installed CA certificates and the ability to upload additional CA certificates. The certificates shall be signed by an organization providing digital trust services	Request the committee to kindly explain the need of this certificate and objective to be attained via the same.	**Clarification:** Tender conditions shall prevail
102.	Section 12 Annexure IV: Key Requirements for OEMs/ Principals/Prod uct Vendors	Annexure IV: Key Requirements for OEMs/ Principals/Produc t Vendors	112	I	12 Annexure IV: Key Requirements for OEMs / Principals / Product Vendors	To ensure the OEMs stability and existance in industry we suggest to include the following specification in the RFP: **"The proposed OEMs for all software and hardware should have existence in India for at least 5 years in similar projects from the date of tender release. (Under Companies Act, 1956/2013) in India"**	**Clarification:** Tender conditions shall prevail
103.	Section 12 Annexure IV: Key Requirements for OEMs/ Principals/Prod uct Vendors	Annexure IV: Key Requirements for OEMs/ Principals/Produc t Vendors	113	I	The ICCC platform shall support integration with OPC UA/DA, IoT Protocols/Standards like MQTT, CoAP, LWM2M, LoRA, NBIoT, LTE CAT M1 etc.	NA	**Clause Amended as:** Please refer to the Corrigendum
104.	Section 7 Evaluation of Technical Bids	Evaluation of technical bids- Point No B2	40	I	The Sole Bidder or any of Consortium members should have experience in Design, Supply, Installation and Operations & Maintenance of IT Infrastructure,	Bidder suggest to split this in two different criterion. 1) Design supply Installation and operations & Maintenance of IT Infrastructure, networking	**Clarification:** Tender conditions shall prevail

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					networking equipment, storage backup equipment, servers and cyber-security (excluding auxiliary infrastructure such as desktops, printers, UPS, scanners) for at least Tier II or above Data Centre (certified by Uptime Institute for facility management and/or design) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date.	equipments, server, cyber security with minimum value of 10 cr 2) Design and Build Tier II and above dat	
105.	Section 7 Evaluation of Technical Bids	Evaluation of technical bids - Point No B3	41	I	The Sole Bidder or any of Consortium members should have experience in Design, Installation and Operations & Maintenance of Integrated Operations Centre / Command and Control Centre / City Operations Centre / City Surveillance Command Centre with integration of at least four (4) different smart elements / smart solutions using ICCC software platform (out of the following smart elements / smart solutions) with minimum value of INR 10 Crores out of which one (1) project should have been completed during last 7 years as on bid submission date - Parking Sensors / Intelligent Parking - Air Quality Monitoring Stations - Solid Waste Management - Intelligent Lighting systems / Smart LED street lights - Public safety and Disaster Management - Tourism Information Centre - Real-time Air Monitoring - GPS based Vehicle Tracking systems - Variable Message Display (VMS) Board		Query not clear
106.	NA	NA	NA	I	NA	We would hereby like to inform you that our organization ITI Limited has been serving Smart City Solutions/CCC to various organization. Since our inception in 10 year of starting your business. We are looking forward to participating in the tender mentioned in the notice referred. However, please note that we might require some time to prepare an exact estimation as we have come across the notice quite late. We therefore request you to please extend the last date of bid submission against your NIT by at least 2 weeks	**Clause Amended as:** Please refer to the Corrigendum
107.	NA	NA	NA	I	NA	Reference the ICC & Smart components RFP published, we request to extend query submission date from 14 Dec 18 to 17 Dec 18 since it's a detailed RFP with multiple OEM components & legal terms we would not be able to send query by 14th Dec 18	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
108.	NA	NA	NA	I	NA	Telecom Componnent forms the backbone of all the Master System Integration Projects. It has been oberved that despite forming a cruical component of the entire project, telecom compment is not given due importance as MAF is not mandatory by Telecom Supplier. Keeping this mind, we request the authorities to even request for MAF from TSP and ISP. This would bound the MSIs to one particular TSP and would not lead changing of TSP provides only on the basis of price after allotment of LOI	**Clarification:** Tender Conditions shall prevail
109.	NA	NA	NA	I	NA	Considering the fact that ASCL has requested for large number of projects in Technical Qualification criteria for scoring maximum marks, it is requested to either change the number of maximum consortium members from 3 to 4 or even allow OEM experience to considered for these projects. The tender in its current state comes out as a very restrictive tender and should be relaxed to allow wider participation	**Clarification:** Tender conditions shall prevail
110.	NA	NA	NA	I	NA	Request the authorities to consider Global experience as well. Smart Cities is a relatively new phenomenon in India but has been in exisitence for a long time. Considering this, acceptance of global experience would attract wider participation from various players who have installed and commissioned smart solutions across the world. This would help ASCL in getting benefitted from global experience of such distinguished players	**Clarification:** Plesae refer to the Section 6 (Evaluation of Eligibility Criteria),Table 6 - 1, Point no 3
111.	NA	NA	NA	I	Tender should have a clause saying that GOI Preferential Market Access Policy to promote domestic manufacturing under Make in India is applicable in this project- as per the following notifications a. Notification No.8(78)/2010-IPHW dated 10 Feb 2012 b. DoT notification No.18-07/2010-IPdated 05 Oct 2012 c. Guidelines issued by DeitY vide No.8(78)/2010-IPHW dated 12Jun 2013. d. Notification issued by DeitY vide No.33(3)/2013-IPHW dated 23Dec 2013. e. Guidelines issued by DeitY vide No.33(7)/2015-IPHW dated 16th November,2015. **This PMA policy is made mandate by MoUD via notification D.O. No. K-14012/101(17)/2017-SC-III-A dated 27th April 2017. Please do confirm the implemetation of the policy.**	We would like to bring to your notice that Government of India has come up with a Preferntial Market Access Policy giving preference to domestic manufacturers in all government funded projects. In addition, the policy dated 23rd December,2013 vide clause 4.3.4 states that the tender conditions would ensure that domestically manufactured electronic products are encouraged and are not subjected to restrictive product specifications or mandatory requirement of prior experience.In view of the same,we request you to include the implementation of PMA policy on this tender and help in creating a stronger domestic industry. Many of the government projects are already covered under the Policy.Enclosed are various copies of tenders where PMA policy is already appearing in the tender.Inview of this,we request you for Implementation GOI Preferential Market Access Policy to promote domestic manufacturing under Make in India- as per the following notifications a. DIPP Notification dated 15th June 2017 b. DoT Notification dated 28th August 2018 c. Notification No.8(78)/2010-IPHW dated 10 Feb 2012	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						d. DoT notification No.18-07/2010-IPdated 05 Oct 2012 e. Guidelines issued by DeitY vide No.8(78)/2010-IPHW dated 12Jun 2013. f. Notification issued by DeitY vide No.33(3)/2013-IPHW dated 23Dec 2013. g. Guidelines issued by DeitY vide No.33(7)/2015-IPHW dated 16th November,2015. Below Tender Documents/clarifications reference mentions PMA policy:- 1. RailTel Corporation of India Limited - Tender No. RailTel/Tender/OT/CO/Project/2012-13/211 - Clause 23 (Page-50) 2. BSNL Indian Navy Tender - CA/CNP/NCN-EQPT/T-464/2014 DATED 31 JAN 2014 - Clause 4.1.6 (Page-6) 3. Raipur Smart City - 108/RSCL/ITMS-ICCC/2017-18, dated 21/04/2017 4. BSNL Indian Navy Tender - CA/CNP/NCN-EQPT/T-464/2014 DATED 31 JAN 2014 - Clause 4.1.6 (Page-6) 5. Bhubneshwar Smart City - BSCL/243/16/620, dated 4th March 2017	
112.	NA	NA	NA	I	Regarding phase - II - egovernance	Failover and Failback will be Responsibility of MSI. CSP will provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only not for application.	**Clarification:** Tender conditions shall prevail
113.	NA	NA	NA	I	Regarding phase - II - egovernance	Suggestions: 1) Master system integrator shalll be responsible for end to end implementation of the project which include Infrastructure and egovernance applications/ Citizen centric services. 2) It should be an option to MSI - they can use existing solution/services or creating new development of egovernance services. MSI should be fully responsible to run the project as per Punjab State and MOUD -GOI- which is open sources services and single windows system as per govt of India - ministry of Information technology guideliness.	**Clarification:** Tender conditions shall prevail

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114.	Section 12 Annexure IV: Key Requirements for OEMs/ Principals/Prod uct Vendors	Surveillance System - Point No. 1	111	II	1. All the network cameras supplied must be certified for: FCC, CE, IK 08 and UL	All cameras must be IK10 Rated which is the latest and recommended rating for resistance.	**Clarification:** Tender conditions shall prevail. Bidder shall be required to provide better solution as per solution requirement
115.	Section 1	1.1 City Surveillance	6	II	The scope of software integration between ICCC and local monitoring stations shall include retrieval of video over the network for analytics and real-time viewing on video wall at ICCC. The MSI shall integrate with existing Video Management and Recording servers for achieving this functionality.	As per the RFP requirement existing VMS will directly integrate with ICCC platform and need not to integrate with new VMS System. Kindly Confirm.	**Clarification:** The Bidder shall be required to provision Integration with new VMS
116.	Section 1.1	City Surveillance	6	II	The scope of software integration between ICCC and local monitoring stations shall include retrieval of video over the network for analytics and real-time viewing on video wall at ICCC. The MSI shall integrate with existing Video Management and Recording servers for achieving this functionality.	As per the RFP requirement existing VMS will directly integrate with ICCC platform and need not to integrate with new VMS System. Kindly Confirm.	**Clarification:** The Bidder shall be required to provision Integration with new VMS
117.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm if the proposed Server Operating System for all servers shall be Common Criteria EAL4+ cerified as security shall be an important aspect. Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	**Clarification:** Additional feature – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
118.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm if the OEM Software support shall not restrict the number of support cases/incidents.	**Clarification:** OEM Software support is not restricted to number of incidents / support cases
119.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Please clarify that The Software OEM shall have defined product life cycle and update policies for the all the supplied products.	**Clarification:** OEM shall ensure continuous availability of security patches and updates
120.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm if the bidder should adhere to the policy of Government of India on adoption of open source software issued by DeitY vide F. No. 1(3)/2014-EG II available on MeitY website at "meity.gov.in/writereaddata/files/policy_on_adoption_of _oss.pdf"	**Clarification:** The Bidder shall provide a solution meeting the applicable standards (or as amended from time to time) by GoI required for working of the Project
121.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm that the bidder shall not propose any freeware software/community edition. (as any such	**Clarification:** The Bidder shall provide a solution

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						underlying freeware/community-edition may be a severe security risk).	meeting the applicable standards (or as amended from time to time) by GoI required for working of the Project
122.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm that OEM of the various proposed system software shall have presence in India and shall have its own India Support center as well.	**Clause Amended as:** Please refer to the Corrigendum
123.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm if the OEM Software license/subscription shall allow the software to be deployed on physical, virtual or cloud based servers.	**Clarification:** OEM Software license/subscription shall allow the software to be deployed on physical, virtual or cloud based servers
124.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm if the proposed Server Operating System for all servers shall be Common Criteria EAL4+ cerified as security shall be an important aspect. Kindly confirm if the continuous availability of security patches and updates to be ensured from OS OEM?	**Clarification:** Additional feature – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
125.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm if the OEM Software support shall not restrict the number of support cases/incidents.	**Clarification:** OEM Software support is not restricted to number of incidents / support cases
126.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Please clarify that The Software OEM shall have defined product life cycle and update policies for the all the supplied products.	**Clarification:** OEM shall ensure continuous availability of security patches and updates
127.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm if the bidder should adhere to the policy of Government of India on adoption of open source software issued by DeitY vide F. No. 1(3)/2014-EG II available on MeitY website at meity.gov.in/writereaddata/files/policy_on_adoption_of_oss.pdf"	**Clarification:** The Bidder shall provide a solution meeting the applicable standards (or as amended from time to time) by GoI required for working of the Project
128.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm that the bidder shall not propose any freeware software/community edition. (as any such underlying freeware/community-edition may be a severe security risk).	**Clarification:** The Bidder shall provide a solution meeting the applicable standards (or as amended from time to time) by GoI required for working of the Project

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
129.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm that OEM of the various proposed system software shall have presence in India and shall have its own India Support center as well.	**Clause Amended as:** Please refer to the Corrigendum
130.	Section 3.1 General Scope of Work	General Scope of Work - Point No. IV	11	II	IV: Softwares	Kindly confirm if the OEM Software license/subscription shall allow the software to be deployed on physical, virtual or cloud based servers.	**Clarification:** OEM Software license/subscription shall allow the software to be deployed on physical, virtual or cloud based servers
131.	Section 3.2.2	Outdoor cabinets / junction boxes	14	II	Outdoor cabinets / junction boxes	REMARKS - No details about humidity & temperature inside the control panels or distribution panels can be found here. For Indian Conditions, it is important to give the appropriate specs for climate conditioning of the control panels which are connected outdoors. We request to add few specifications of Temperature & humidity monitoring inside the control & distribution panels with the help of a thermostat or Hygrostat. Suggested specifications: All the cabinets should be equipped with a DIN rail mountable Thermostat & Hygrostat to monitor and control both temperature & humidity with a 10A potential free output to generate alarm or activate a space heater up to 100W.	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
132.	Section. 3.2.4	Grounding, Earthing, Bonding and Surge Protection Measures - Point No. III	16	II	III. MSI Shall install surge protection devices of adequate capacity for the pritection of all equipments.	REMARKS- It is important to Specify at-least 3 parameters of Surge Protection Devices to be used for Indian power supply conditions i.e. Wiring Configuration, Voltage and Current Ratings as suggested for the Power lines. Without the mention of above and the point of installation, it may lead to insufficient protection which may not add the required value. Pluggability in these devices will be an added benefit. Suggested specifications: Pluggable Type 1+2 SPD shall be installed as per TT system wiring conforming to IEC/EN 61643-11 for all single & three phase power lines including the power supply to Command Control Centres. The device shall be suitable for handling Nominal discharge current (8/20 μs) (In) of 30KA and Lightning impulse current (10/350 μs) (Iimp) of 10KA. Type 2 Pluggable SPD suitable for TT system wiring conforming to IEC/EN 61643-11 shall be installed for all single phase and DC power lines including that of UPS etc. The device shall be suitable for handling Nominal	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					discharge current (8/20 µs) (In) of 10KA between and maximum discharge current (8/20 µs) (Imax) of 20KA. Type 2+3 device shall be used for protection of RS485 data lines & other telecommunication lines. The device shall have nominal discharge current In (8/20 µs) core-core of 5KA and total discharge cores-PE of 10KA.		
133.	Section 3.3 Integrated Command and Control Centre	Integrated Command & Control Centre	17	II	knowledge workers of ICCC application	Please provide the tentative count of concurrent users accessing the ICCC application from various departments. And also growth percentage for next 5 years	**Clarification:** Min 50 concurrent users using the ICCC Platform with YoY growth rate of 10% for next 5 years
134.	Section 3.3 Integrated Command and Control Centre	Integrated Command and control centre - Point No. VIII	18	II	MSI Shall deploy prescriptive and predictive analytics where ever applicable as per the requirements of ASCL	Please specify clearly which all the sub-systems needs to be enhanced with analytics platform to derive prescriptive and predictive analytics?	**Clarification:** Tender conditions shall prevail The details of the subsystems shall be shared with the successful Bidder
135.	Section 3.3 Integrated Command and Control Centre	Integrated Command and control centre - Point No. VIII	18	II	MSI Shall deploy prescriptive and predictive analytics where ever applicable as per the requirements of ASCL	Please specify clearly which all the sub-systems needs to be enhanced with analytics platform to derive prescriptive and predictive analytics?	**Clarification:** Tender conditions shall prevail The details of the subsystems shall be shared with the successful Bidder
136.	Section 3.3 Integrated Command and Control Centre	Integrated Command and control centre - Point No VIII	18	II	MSI Shall deploy prescriptive and predictive analytics where ever applicable as per the requirements of ASCL	Please specify clearly which all the sub-systems needs to be enhanced with analytics platform to derive prescriptive and predictive analytics?	**Clarification:** Tender conditions shall prevail The details of the subsystems shall be shared with the successful Bidder
137.	Section 3.3 Integrated Command and Control Centre	Integrated Command and control centre - Point No VIII	18	II	MSI Shall deploy prescriptive and predictive analytics where ever applicable as per the requirements of ASCL	Please specify clearly which all the sub-systems needs to be enhanced with analytics platform to derive prescriptive and predictive analytics?	**Clarification:** Tender conditions shall prevail The details of the subsystems shall be shared with the successful Bidder
138.	Section 3.3.2	ICCC Platform - Point No. IV	20	II	IV: Integration	The RFP specifies scope for Integration of Various Business Applications with ICCC. Please confirm that the bidder shall propose an Industry leading Enterprise ESB Solution. It is highly recommended to have an enterprise service bus / SOA architecture considering existing and future integrations.	**Clarification:** Additional feature – "Tender conditions shall prevail". The Bidder may provide additional features as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						As there are many City wide applications that needs to be integrated with ICCC with open standards, it is strongly recommend a enterprise service bus architecture. Having P2P connectors would lead to P2P integration with all its demerits (less agility, complex monitoring and manageability, compromised data security due to lack of central governance, higher TOC).	
139.	Section 3.3.2	ICCC Platform - Point No. II	20	II	ICCC Platform II. Smart city application to be integrated by MSI in ICCC for forthcoming phases shall include; a. Solid waste management system b. SCADA of water, gas and electricity utility networks c. Smart Parking d. Intelligent Street Lighting e. Intelligent Traffic Management System f. Solar Grids g. Other applications as identified by ASCL and MCA	Recommend that ICCC Platform should be futuristic & capable of future integrations Request to kindly include the following integration for Water Optimization & Leakage Prevention solutions a. ICCC platform will be required to integrate with Smart Water Information Management System using open protocol communication b. ICCC platform will be required to integrate with existing Water SCADA (Upstream) System using Open protocol communication with bi-directional control. Example ICCC platform should be able to open and close valves, gates etc. Should be able to switch on and off pumps etc. c. ICCC platform should be able to map Water SCADA devices over the GIS layer. d. The operator at ICCC should be able to click on the GIS map to view the details of particular Water SCADA System status, present uptime, down time, water flow etc. e. ICCC platform should also be able to trigger the commands / alerts (if required) to the respective sub system. f. All the information received from Existing Water SCADA System will get into Analytics layer of ICCC and provide useful insights and KPI's over dashboard. g. As part of future integration, the analytics layer shall provide analytics on water distribution management (like demand-supply, water leakage, etc.), water quality (like pH levels, dissolved oxygen, etc.)"	**Clarification:** Please refer corrigendum
140.	Section 3.3.2	ICCC Platform - Point No. IV	20	II	IV: Integration	The RFP specifies scope for Integration of Various Business Applications with ICCC. Please confirm that the bidder shall propose an Industry leading Enterprise ESB Solution. It is highly recommended to have an enterprise service bus / SOA architecture considering existing and future integrations. As there are many City wide applications that needs to be integrated with ICCC with open standards, it is strongly recommend a enterprise service bus architecture. Having P2P connectors would lead to P2P integration with all its demerits (less agility, complex	**Clarification:** Additional feature – "Tender conditions shall prevail". The Bidder may provide additional features as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						monitoring and manageability, compromised data security due to lack of central governance, higher TOC).	
141.	Section 3.4.1	Setting up Network Operations Centre (NOC) - Point No. XI (c)	22	II	Maintain an updated knowledge base of all the published security vulnerabilities and virus threats for related software and microcode, including, but not limited to, operating systems, security solutions, network solutions, etc.	Request you to kindly amend it as" Maintain an updated knowledge base of all the published security vulnerabilities **and determine in real time the workloads that are running with common viulberabilities** and virus threats for related software and microcode, including, but not limited to, operating systems, " Remarks: There should be real time information available for determinition of workloads running in real time with vulberabilities, this will ensure the DC, Cloud environment is 100% secure	**Clarification:** Additional feature – "Tender conditions shall prevail". The Bidder may provide additional features as per the solution requirement.
142.	Section 3.4.1	Setting up Network Operations Centre (NOC) - Point No. XI (c)	22	II	Maintain an updated knowledge base of all the published security vulnerabilities and virus threats for related software and microcode, including, but not limited to, operating systems, security solutions, network solutions, etc.	Request you to kindly amend it as" Maintain an updated knowledge base of all the published security vulnerabilities **and determine in real time the workloads that are running with common viulberabilities** and virus threats for related software and microcode, including, but not limited to, operating systems, " Remarks: There should be real time information available for determinition of workloads running in real time with vulberabilities, this will ensure the DC, Cloud environment is 100% secure	**Clarification:** Additional feature – "Tender conditions shall prevail". The Bidder may provide additional features as per the solution requirement.
143.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. I	24	II	1.The on-premise data centre functions should fail-over to the cloud in case of DR except video analytics. Design the DR according to RTO/RPOas mentioned below:	Failover and Failback will be Responsibility of MSI. CSP will provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only not for application.	**Clarification:** The CSP shall provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only
144.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. IV	24	II	4. The video recording storage used on cloud shall be released after the Disaster/Disruption period has ended and only flagged data shall be retained and synced back to on premise data centre after it resumes the normal operations	Disaster/Disruption operations and Failover failback will be under MSI SOW.	Query not clear
145.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. VII	24	II	8. The complete application databases, tagged video evidence data and other important data and files on 75 TB unified storage shall be replicated in cloud on based on RPO/RTOguidelines	MSI to provide sizing for replication bandwidth based on RPO and RTO guidelines.	Query not clear
146.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. XIV	24	II	14. DC Cloud Compute Instances for IoT Applications shall run 24 X 365. These should be sized optimally for current requirements of end device, processing and storage.	Instance Sizing needs to be shared by MSI accordingly.	Query not clear

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
147.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. XIX	24	II	19. The cloud backup video files and application databases shall be brought in sync with unified storage in DC after DC restoration.	MSI will be responsible to bring back application database/Backup Video files in sync with unified storage in DC after DC restoration.	Query not clear
148.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud	24	II	12.0 Disaster Recovery Site (DR Site) on Cloud	Kindly confirm if the The DR Cloud Service Provider shall also provide MAF from the OEMs ensuring that enterprise supported software is provisioned on DR cloud.	**Clarification:** MAF from MeitY empanelled CSP is not required
149.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud	24	II	12.0 Disaster Recovery Site (DR Site) on Cloud	Kindly confirm if the The DR Cloud Service Provider shall produce certificate for the formal cloud services agreement with the respective OEMs	**Clarification:** The DR Cloud Service Provider's certificate for the formal cloud services agreement with the respective OEMs is not required as part of bid document
150.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. I	24	II	1.The on-premise data centre functions should fail-over to the cloud in case of DR except video analytics. Design the DR according to RTO/RPOas mentioned below:	Failover and Failback will be Responsibility of MSI. CSP will provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only not for application.	**Clarification:** The CSP shall provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only
151.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. IV	24	II	4. The video recording storage used on cloud shall be released after the Disaster/Disruption period has ended and only flagged data shall be retained and synced back to on premise data centre after it resumes the normal operations	Disaster/Disruption operations and Failover failback will be under MSI SOW.	Query not clear
152.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. VII	24	II	8. The complete application databases, tagged video evidence data and other important data and files on 75 TB unified storage shall be replicated in cloud on based on RPO/RTOguidelines	MSI to provide sizing for replication bandwidth based on RPO and RTO guidelines.	Query not clear
153.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. XIV	24	II	14. DC Cloud Compute Instances for IoT Applications shall run 24 X 365. These should be sized optimally for current requirements of end device, processing and storage.	Instance Sizing needs to be shared by MSI accordingly.	Query not clear
154.	Section 3.5 Disaster Recovery on Public Cloud	Data Recovery on Public Cloud - Point No. XIX	24	II	19. The cloud backup video files and application databases shall be brought in sync with unified storage in DC after DC restoration.	MSI will be responsible to bring back application database/Backup Video files in sync with unified storage in DC after DC restoration.	Query not clear
155.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No 1	24	II	1.The on-premise data centre functions should fail-over to the cloud in case of DR except video analytics. Design the DR according to RTO/RPOas mentioned below:	Failover and Failback will be Responsibility of MSI. CSP will provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only not for application.	**Clarification:** The CSP shall provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only
156.	Section 3.5 Disaster	Disaster Recovery on	24	II	4. The video recording storage used on cloud shall be released after the	Disaster/Disruption operations and Failover failback will be under MSI SOW.	Query not clear

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	Recovery on Public Cloud	Public Cloud - Point No IV			Disaster/Disruption period has ended and only flagged data shall be retained and synced back to on premise data centre after it resumes the normal operations		
157.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No VII	24	II	8. The complete application databases, tagged video evidence data and other important data and files on 75 TB unified storage shall be replicated in cloud on based on RPO/RTOguidelines	MSI to provide sizing for replication bandwidth based on RPO and RTO guidelines.	Query not clear
158.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No XIV	24	II	14. DC Cloud Compute Instances for IoT Applications shall run 24 X 365. These should be sized optimally for current requirements of end device, processing and storage.	Instance Sizing needs to be shared by MSI accordingly.	Query not clear
159.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No XIX	24	II	19. The cloud backup video files and application databases shall be brought in sync with unified storage in DC after DC restoration.	MSI will be responsible to bring back application database/Backup Video files in sync with unified storage in DC after DC restoration.	Query not clear
160.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No. 1	24	II	1.The on-premise data centre functions should fail-over to the cloud in case of DR except video analytics. Design the DR according to RTO/RPOas mentioned below:	Failover and Failback will be Responsibility of MSI. CSP will provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only not for application.	**Clarification:** The CSP shall provide Infrastructure for DR and Compliance on RPO and RTO till Infrastructure level only
161.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No. 4	24	II	4. The video recording storage used on cloud shall be released after the Disaster/Disruption period has ended and only flagged data shall be retained and synced back to on premise data centre after it resumes the normal operations	Disaster/Disruption operations and Failover failback will be under MSI SOW.	Query not clear
162.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No. 8	24	II	8. The complete application databases, tagged video evidence data and other important data and files on 75 TB unified storage shall be replicated in cloud on based on RPO/RTOguidelines	MSI to provide sizing for replication bandwidth based on RPO and RTO guidelines.	Query not clear
163.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No. 14	24	II	14. DC Cloud Compute Instances for IoT Applications shall run 24 X 365. These should be sized optimally for current requirements of end device, processing and storage.	Instance Sizing needs to be shared by MSI accordingly.	Query not clear
164.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud - Point No. 19	24	II	19. The cloud backup video files and application databases shall be brought in sync with unified storage in DC after DC restoration.	MSI will be responsible to bring back application database/Backup Video files in sync with unified storage in DC after DC restoration.	Query not clear
165.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud	24	II	12.0 Disaster Recovery Site (DR Site) on Cloud	Kindly confirm if the The DR Cloud Service Provider shall also provide MAF from the OEMs ensuring that enterprise supported software is provisioned on DR cloud.	**Clarification:** MAF from MeitY empanelled CSP is not required

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166.	Section 3.5 Disaster Recovery on Public Cloud	Disaster Recovery on Public Cloud	24	II	12.0 Disaster Recovery Site (DR Site) on Cloud	Kindly confirm if the The DR Cloud Service Provider shall produce certificate for the formal cloud services agreement with the respective OEMs	**Clarification:** The DR Cloud Service Provider's certificate for the formal cloud services agreement with the respective OEMs is not required as part of bid document
167.	Section 3.6.2	Leasing of Network	25	II	3.6.2 Leasing of Network	Please clarify the type of Network connectivity which can be proposed like MPLS VPN , Lease Line , Internet, SDWAN etc.	**Clarification:** The bidder shall be required to provision for Network Connectivity / Lease Network as per solution requirement
168.	Section 3.6.2	Leasing of Network	25	II	3.6.2 Leasing of Network	Please clarify Sla requirements for Network like Availability, Latency, Packetloss	**Clarification:** SLA requirements for Network are mentioned in the Section 3.3 (Operations and Maintenance SLAs) in Vol - III of the RFP
169.	Section 3.13	Compliance with industry standards - Point No. d. - Table 3-1 -Industry Standards - Point No. 6	29	II	6. Information Security ISO 27001 Certified System	ISO 27001 certification ensures that Security risks posed have been taken care of during the product development and release phases and the solution thus deployed does not pose security risks. **Hence request you to please confirm if the proposed NMS/EMS must be an industry standard solution from an OEM that is ISO 27001 certified?**	**Clarification:** Not mandatory requirement
170.	Section 4	Implementation Plan, Payment Schedule and Deliverables	35	II	CAPEX & OPEX ratio shall be reasonable and realistic, a bid shall not be considered for Final Evaluation if the total CAPEX value happens to be more than 50% of the overall bid value	As per our assessment the capex:opex ratio is not viable as capex will be more. This will lead to back loading of bid and cash flow will be negative for the MSI. We request to kindly consider changing capex:opex ratio to 70:30.	**Clause Amended as:** Please refer to the Corrigendum
171.	Section 4	Implementation Plan, Payment Schedule and Deliverables	35	II	Payment Terms	Payment Terms	**Clause Amended as:** Please refer to the Corrigendum
172.	Section 5.2	Communication Network - Point No 1	38	II	5.2 Communication Network (1)	Please clarify bidders have to provide Network from two operators at each location to achieve redundancy.	**Clarification:** The bidder shall be required to provision for Network Connectivity / Lease Network as per solution requirement
173.	Section 5.3.2	Surveillance System Sub-Components - Point No. IV	41	II	The MSI shall provide both edge and server-side video analytics that can be applied to the video streams and alerts can be generated from it to escalate incidents in real-time for quick response	request to kindly amend it as "The MSI shall provide both edge **or** server-side (Datacenter) analytics that can be applied to the video streams and alerts can be generated from it to escalate incidents in real-time for quick response. MSI is free to offer products and solutions to achieve the desired requirement." Remarks:	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						Analytics can happened either on Edge locations or at DC. This depends upon the number of cameras per location and many other factors. We understand that the MSI can offer analytics solution to achieve the desired results base on their past experience. Request to confirm on our understanding and update the specification.	
174.	Section 5.3.2	Surveillance System Sub-Components - Point No. IV	41	II	The MSI shall provide both edge and server-side video analytics that can be applied to the video streams and alerts can be generated from it to escalate incidents in real-time for quick response	request to kindly amend it as "The MSI shall provide both edge **or** server-side (Datacenter) analytics that can be applied to the video streams and alerts can be generated from it to escalate incidents in real-time for quick response. MSI is free to offer products and solutions to achieve the desired requirement." Justification: Analytics can happened either on Edge locations or at DC. This depends upon the number of cameras per location and many other factors. We understand that the MSI can offer analytics solution to achieve the desired results base on their past experience. Request to confirm on our understanding and update the specification.	**Clause Amended as:** Please refer to the Corrigendum
175.	Section 5.3.2	Table - Point No. 3 - Video Analytics Server (s)	42	II	Additional point	Analytics and Deep learning servers should be provided at Datacenter depending upon the MSI solution to achieve the desired results. Remarks: Deep learning servers are no where defined it the RFP which are very much required for smart city appications as a part of machine learning. Request to include.	**Clarification:** Additional feature – "Tender conditions shall prevail". The Bidder may provide additional features as per the solution requirement.
176.	Section 5.3.3	Table - Video Analytics Server (s)	42	II	Additional point	Analytics and Deep learning servers should be provided at Datacenter depending upon the MSI solution to achieve the desired results. Remarks: Deep learning servers are no where defined it the RFP which are very much required for smart city appications as a part of machine learning. Request to include	**Clarification:** Additional feature – "Tender conditions shall prevail". The Bidder may provide additional features as per the solution requirement.
177.	Section 5.3.3	General Functional requirements- Point No. II -i	42	II	II. All the cameras shall be installed with (i) surge protection measures	Type 3 device conforming to EN 61643-21 shall be used for all Ethernet, POE (Power over Ethernet) and network dataline transmission systems. The device shall have nominal discharge current (8/20 µs) between L-L of 200A and between L-PE of 1.5 KA.	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs
178.	Section 5.3.4	Video Management & Recording System - Point No. 2	43	II	2. Video Management System (VMS) shall use the IP network as the platform for managing the entire surveillance system. End users shall have rapid access to relevant information for analysis	Kindly Consider 2. Video Management System (VMS) shall use the IP network as the platform for managing the entire surveillance system. **The VMS Software should have OS partner certification from last 3 years for tight**	**Clarification:** Additional Clause – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						integration with operating system. End users shall have rapid access to relevant information for analysis.	supported by many OEMs. Bidder is proposing additional specification over RFP requirement and may restrict participation from other vendors
179.	Section 5.3.4	Video Management & Recording System - Point No. 6	43	II	6. VMS should allow managing initial client logon, system configurations, remote administration of recording servers, devices, security, rules, alerts and logging.	Kindly Consider 6. VMS should allow managing initial client logon, system configurations, remote administration of recording servers, devices, security, rules, alerts and logging. **Alarm Filtering Option shall be there . It shall possible to "silence" alarms for a desired time period Ranging from 5 Minutes till 24 Hours or more. This is useful if alarms are unintentionally active all the heavy wind or rain.**	**Clarification:** Additional Clause – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs. Bidder is proposing additional specification over RFP requirement and may restrict participation from other vendors
180.	Section 5.3.4	Video Management & Recording System - Point No. 6	43	II	6. VMS should allow managing initial client logon, system configurations, remote administration of recording servers, devices, security, rules, alerts and logging.	Kindly Consider: 6. VMS should allow managing initial client logon, system configurations, remote administration of recording servers, devices, security, rules, alerts and logging. **Alarm Filtering Option shall be there . It shall possible to "silence" alarms for a desired time period Ranging from 5 Minutes till 24 Hours or more. This is useful if alarms are unintentionally active all the heavy wind or rain.**	**Clarification:** Additional Clause – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs. Bidder is proposing additional specification over RFP requirement and may restrict participation from other vendors
181.	Section 5.3.4	Video Management & Recording System - Point No. 2	43	II	2. Video Management System (VMS) shall use the IP network as the platform for managing the entire surveillance system. End users shall have rapid access to relevant information for analysis.	Kindly Consider: 2. Video Management System (VMS) shall use the IP network as the platform for managing the entire surveillance system. **The VMS Software should have OS partner certification from last 3 years for tight integration with operating system**. End users shall have rapid access to relevant information for analysis.	**Clarification:** Additional Clause – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs. Bidder is proposing additional specification over RFP requirement and may restrict participation from other vendors
182.	Section 5.3.4	Video Management & Recording System - Point No. 19	44	II	19. The VMS should have a feature to restrict an operator to a particular hardware workstation only and have access to only those video streams for which he has permissions	The asked feature is not much valuable to the End client. The VMS should have flexibility to give user rights and be independent of hardware. We recommend to remove this clause.	**Clarification:** Tender conditions shall prevail
183.	Section 5.3.4	Video Management & Recording System - Point No. 19	44	II	19. The VMS should have a feature to restrict an operator to a particular hardware workstation only and have access to only those video streams for which he has permissions.	The asked feature is not much valuable to the End client. The VMS should have flexibility to give user rights and be independent of hardware. We recommend to **remove this clause.**	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
184.	Section 5.3.4	Video Management & Recording System - Point No. 31	45	II	31. The VMS should allow monitoring of archive video of the selected camera under categories such as events, motion or continuous recording. The VMS should also show a report of cameras indicating recording status for the selected duration, critical video data and Incident Video data.	Kindly Consider: The VMS should allow monitoring of archive video of the selected camera under categories such as events, motion **(three types- Adaptive, comparative and Hermeneutic)** or continuous recording. The VMS should also show a report of cameras indicating recording status for the selected duration, critical video data and	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs
185.	Section 5.3.4	Video Management & Recording System - Point No. 41	46	II	41. The Client Viewer should have the capability to receive multicast streams if a pre-set number of clients are requesting the same live view camera. The Operator should have the option to configure the system to always receive unicast streams at the discretion of the system administrator. The system should have the capability to detect if the network becomes unreliable and to automatically switch to unicast to ensure that the operator is able to receive video	Kindly Consider 41. The Client Viewer should have the capability to receive multicast, **Thrucast streams** if a pre-set number of clients are requesting the same live view camera. The Operator should have the option to configure the system to always receive unicast streams at the discretion of the system administrator **and client utility should have MAX Smooth feature for bandwidth management.** The system should have the capability to detect if the network becomes unreliable and to automatically switch to unicast to ensure that the operator is able to receive video	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs
186.	Section 5.3.4	Video Management & Recording System - Point No. 41	46	II	41. The Client Viewer should have the capability to receive multicast streams if a pre-set number of clients are requesting the same live view camera. The Operator should have the option to configure the system to always receive unicast streams at the discretion of the system administrator. The system should have the capability to detect if the network becomes unreliable and to automatically switch to unicast to ensure that the operator is able to receive video.	Kindly Consider: 41. The Client Viewer should have the capability to receive multicast, **Thrucast streams** if a pre-set number of clients are requesting the same live view camera. The Operator should have the option to configure the system to always receive unicast streams at the discretion of the system administrator **and client utility should have MAX Smooth feature for bandwidth management**. The system should have the capability to detect if the network becomes unreliable and to automatically switch to unicast to ensure that the operator is able to receive video.	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs
187.	Section 5.3.4	Video Management & Recording System - Point No. 31	46	II	31. The VMS should allow monitoring of archive video of the selected camera under categories such as events, motion or continuous recording. The VMS should also show a report of cameras indicating recording status for the selected duration, critical video data and Incident Video data.	Kindly Consider: The VMS should allow monitoring of archive video of the selected camera under categories such as events, motion **(three types- Adaptive, Comparative and Hermeneutic)** or continuous recording. The VMS should also show a report of cameras indicating recording status for the selected duration, critical video data and Incident Video data.	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs
188.	Section 5.3.4	Video Management & Recording System - Point No. 45	47	II	45. Client viewer should allow the same camera to be viewed on multiple display tiles; one may be digitally zoomed, or on high resolution stream.	Kindly consider 45. Client viewer should allow the same camera to be viewed on multiple display tiles; one may be digitally zoomed, or on high resolution stream. **Software should have virtual camera feature up to 40 numbers for detailed monitoring and "Help" option where quick offline support and documentation is available for the operator for any instant help or support.**	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
189.	Section 5.3.4	Video Management & Recording System - Point No. 44	47	II	44. Video Stitching - The VMS should provide the ability for real-time video calibration tools providing stitched video view of areas that are covered by multiple cameras as a single image. The video stitching software module should provide the ability to "stitch" / integrate up to eight (8)cameras in any direction, horizontal, vertical and overlay to provide a single overlaid view of the selected cameras. It should also be possible to record	Kindly Remove as this is a proprietory feature of a single OEM.	**Clause Amended as:** Please refer to the Corrigendum
190.	Section 5.3.4	Video Management & Recording System - Point No. 48	47	II	48. The VMS should have capability to summarize activities in any given segment of video on demand, so that activities that happened during one hour of time can be viewed in e.g. less than 10 minutes without missing any activity.	Kindly Consider: 48. The VMS should have capability to summarize activities in any given segment of video on demand, so that activities that happened during one hour of time can be viewed in e.g. less than 10 minutes without missing any activity. **Also the VMS should have feature of motion based deep thumbnail search with video digging**	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
191.	Section 5.3.4	Video Management & Recording System - Point No. 44	47	II	44. Video Stitching - The VMS should provide the ability for real-time video calibration tools providing stitched video view of areas that are covered by multiple cameras as a single image. The video stitching software module should provide the ability to "stitch" / integrate up to eight (8)cameras in any direction, horizontal, vertical and overlay to provide a single overlaid view of the selected cameras. It should also be possible to record such stitched view as one single video file for later retrieval.	Kindly Remove as this is a proprietory feature of a single OEM.	**Clause Amended as:** Please refer to the Corrigendum
192.	Section 5.3.4	Video Management & Recording System - Point No. 45	47	II	45. Client viewer should allow the same camera to be viewed on multiple display tiles; one may be digitally zoomed, or on high resolution stream.	Kindly Consider: 45. Client viewer should allow the same camera to be viewed on multiple display tiles; one may be digitally zoomed, or on high resolution stream. **Software should have virtual camera feature up to 40 numbers for detailed monitoring and "Help" option where quick offline support and documentation is available for the operator for any instant help or support.**	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
193.	Section 5.3.4	Video Management & Recording System - Point No. 48	47	II	48. The VMS should have capability to summarize activities in any given segment of video on demand, so that activities that happened during one hour of time can be viewed in e.g. less than 10 minutes without missing any activity.	Kindly Consider: 48. The VMS should have capability to summarize activities in any given segment of video on demand, so that activities that happened during one hour of time can be viewed in e.g. less than 10 minutes without missing any activity. **Also the VMS should have feature of motion based deep thumbnail search with video digging.**	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.

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194.	Section 5.3.4	Video Management & Recording System - Point No. 44	47	II	44. Video Stitching - The VMS should provide the ability for real-time video calibration tools providing stitched video view of areas that are covered by multiple cameras as a single image. The video stitching software module should provide the ability to "stitch" / integrate up to eight (8)cameras in any direction, horizontal, vertical and overlay to provide a single overlaid view of the selected cameras. It should also be possible to record such stitched view as one single video file for later retrieval.	Kindly Remove as this is a proprietory feature of a single OEM. Video Stitching does not carry water marking, hence it cannot be taken as an evidence for crime, it can be claimed as morphed video. Other relevant features with same functional requriements should be added which has Water Marking also - VIDEOS WITH WATER MARKING ARE PERMISSIBLE UNDER LAW - RFP should have generic features to attract competitive bids.	**Clause Amended as:** Please refer to the Corrigendum
195.	Section 5.3.5.1	Video Analytics Functional Requirements	51	II	5.3.5.1. Video Analytics Functional Requirements	Kindly consider the Deep learning based analytics as most of the smart city authorities are using this. Additional Point: Advanced Deep learning video analytics and 3D Calibration: The bidder shall be responsible for designing and implementing Artificial Intelligence Based Intelligent Video Analytics on the Edge / Central based for all Cameras as per city requirements for all the use cases. VMS, Video analytics and Artificial intelligence should be of same make for tight and integrated solution. Minimum 4 use-cases for Video Analytics Software over minimum 25 Cameras & above based on deep learning and 3D Calibration deployed in India in last 3 Years. Bidder to provide minimun 4 different project details in India with Customer completion & PO for satisfactory performance A. Deep learning and 3D calibrated analytics • Parking violation • Garbage bin, cleaned or not • Vehicle stopped for long • Wrong way or illegal turn detection • Land Encroachment • Abandoned Bag • Graffiti and Vandalism detection • Detection and classification of human, animal and vehicle • Loitering detection • Person climbing barricade • Person collapsing • Crowd Detection	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
196.	Section 5.3.5.1	Video Analytics Functional Requirements - Point No. 21	51	II	2. General Requirements: The System shall be a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence.	Kindly Consider The System shall be a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence. **Also the VA system should have 3D calibration tool where 3D calibration objects are matched to the actual camera viewing scene.**	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
197.	Section 5.3.5.1	. Video Analytics Functional Requirements - Point No. 1	51	II	Person of Interest Origin Search · Unattended Object detection · Object tracking underneath the camera · Traffic Congestion Detection (by Avg. Speed)	Kindly Modify: · Object tracking underneath the camera to **"Object Tracking only"** as if the object is not in the field of view of the camera it cannot be tracked.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					· Wrong Direction Traffic Flow/ Congestion Detection · Wrong way driving · Indoor/ Outdoor Trip Wire		
198.	Section 5.3.5.1	Video Analytics Functional Requirements - Point No. 2	51	II	2. General Requirements: The System shall be a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence.	Kindly Consider: The System shall be a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence. **Also the VA system should have 3D calibration tool where 3D calibration objects are matched to the actual camera viewing scene.**	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
199.	Section 5.3.5.1	Video Analytics Functional Requirements - Point No. 2	51	II	2. General Requirements: The System shall be a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence.	The System shall be a real-time video analytics engine that utilizes advanced image processing algorithms to turn video into actionable intelligence. **Moreover the VA system should have 3D calibration tool where 3D calibration objects are matched to the actual camera viewing scene. 3D Calibration increases the accuracy of the system & helps reducing false alarms**	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
200.	Section 5.3.5.1	Video Analytics Functional Requirements - Point No. 21	52	II	Enhanced Monitoring Features 21. Video Stitching with Object Tracking, Video Stabilization, Video Smoke Detection, Video Fire Detection etc.	Kindly Remove: Video Stitching with Object Tracking	**Clause Amended as:** Please refer to the Corrigendum
201.	Section 5.3.5.1	Video Analytics Functional Requirements - Point No. 21	52	II	Person of Interest Origin Search· Unattended Object detection· Object tracking underneath the camera· Traffic Congestion Detection (by Avg. Speed)· Wrong Direction Traffic Flow/ Congestion Detection· Wrong way driving· Indoor/ Outdoor Trip Wire	Kindly Modify:· Object tracking underneath the camera to "Object Tracking only" as if the object is not in the field of view of the camera it cannot be tracked.	**Clause Amended as:** Please refer to the Corrigendum
202.	Section 5.3.5.1	. Video Analytics Functional Requirements - Point No. 21	52	II	Enhanced Monitoring Features 21. Video Stitching with Object Tracking, Video Stabilization, Video Smoke Detection, Video Fire Detection etc.	Kindly Remove: Video Stitching with Object Tracking	**Clause Amended as:** Please refer to the Corrigendum
203.	Section 5.3.5.1	. Video Analytics Functional Requirements - Point No. 21	52	II	Enhanced Monitoring Features 21. Video Stitching with Object Tracking, Video Stabilization, Video Smoke Detection, Video Fire Detection etc.	Kindly Remove: Video Stitching with Object Tracking Video Stitching does not carry water marking, hence it cannot be taken as an evidence for crime, it can be claimed as morphed video. Other relevant features with same functional requriements should be added which has Water Marking also - VIDEOS WITH WATER MARKING ARE PERMISSIBLE UNDER LAW - RFP should have generic features to attract competitive bids.	**Clause Amended as:** Please refer to the Corrigendum
204.	Section 5.3.5.2	Built in Edge Analytics for the cameras	54	II	The surveillance system shall support following Built-in-Edge Analytics for the Cameras: I. Auto Tracker: To detect and track movement in the feild of view. II.Adaptive Motion Detection: To detect and	All the analytics mentioned in this section, is not recommended to have in one camera, as each analytics has its own purpose and it depens on the location to location, also, all the built in analytics mentioned in this section will increase the price of the product, thus, in order to have economic solution, it is	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					track object that enter a scene and then triggers an alarm when the object enter a user-defined zone. III. Abandoned Object: To detect objects placed within a defined zone and triggers an alarm if the object remains in the zone longer than the user-defined time allows. IV. Camera Sabotage: Triggers an alarm if the lens is obstructed spray paint, a cloth or a lens cap. V. Directional Motion: Generates an alarm in a high traffic area when a person or object moves in specific direction. VI. Object Removal: To triggers an alarm if the object is removed from a user-defined zone. VII. Stopped Vehicle: - To detect vehicles stopped near a sensitive area longer than the user-defined time allows. VIII. Intrusion Detection: Detect intrusion	recommended that the camera capture the video feeds and all the analytics to be performed from Video Management Software (VMS) or server based. Thus, requesting to ammend the clause to The surveillance system shall support following Built-in-Edge Analyticss for the Cameras **or should be VMS based or should be server based.** I. Auto Tracker: To detect and track movement in the feild of view. II.Adaptive Motion Detection: To detect and track object that enter a scene and then triggers an alarm when the object enter a user-defined zone. III. Abandoned Object: To detect objects placed within a defined zone and triggers an alarm if the object remains in the zone longer than the user-defined time allows. IV. Camera Sabotage: Triggers an alarm if the lens is obstructed spray paint, a cloth or a lens cap. V. Directional Motion: Generates an alarm in a high traffic area when a person or object moves in specific direction. VI. Object Removal: To triggers an alarm if the object is removed from a user-defined zone. VII. Stopped Vehicle: - To detect vehicles stopped near a sensitive area longer than the user-defined time allows. VIII. Intrusion Detection: Detect intrusion	
205.	Section 5.3.5.2	Built in Edge Analytics for the cameras - Point No I to VIII	54	II	The surveillance system shall support following Built-in-Edge Analytics for the Cameras: I. Auto Tracker: To detect and track movement in the field of view. II.Adaptive Motion Detection: To detect and track object that enter a scene and then triggers an alarm when the object enter a user-defined zone. III. Abandoned Object: To detect objects placed within a defined zone and triggers an alarm if the object remains in the zone longer than the user-defined time allows. IV. Camera Sabotage: Triggers an alarm if the lens is obstructed spray paint, a cloth or a lens cap. V. Directional Motion: Generates an alarm in a high traffic area when a person or object moves in specific direction. VI. Object Removal: To triggers an alarm if the object is removed from a user-defined zone. VII. Stopped Vehicle: - To detect vehicles	All the analytics mentioned in this section, is not recommended to have in one camera, as each analytics has its own purpose and it depend on the location to location, also, all the built in analytics mentioned in this section will increase the price of the product, thus, in order to have economic solution, it is recommended that the camera capture the video feeds and all the analytics to be performed from Video Management Software (VMS) or server based. **Thus, requesting to amend the clause to The surveillance system shall support following Built-in-Edge Analytics for the Cameras or should be VMS based or should be server based.** I. Auto Tracker: To detect and track movement in the field of view. II.Adaptive Motion Detection: To detect and track object that enter a scene and then triggers an alarm when the object enter a user-defined zone. III. Abandoned Object: To detect objects placed within a defined zone and triggers an alarm if the object remains in the zone longer than the user-defined time allows. IV. Camera Sabotage: Triggers an alarm if the lens is obstructed spray paint, a cloth or a lens cap.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					stopped near a sensitive area longer than the user-defined time allows. VIII. Intrusion Detection: Detect intrusion	V. Directional Motion: Generates an alarm in a high traffic area when a person or object moves in specific direction. VI. Object Removal: To triggers an alarm if the object is removed from a user-defined zone. VII. Stopped Vehicle: - To detect vehicles stopped near a sensitive area longer than the user-defined time allows. VIII. Intrusion Detection: Detect intrusion	
206.	Section 5.3.6	Body Cameras - Point No. 2	55	II	Captured images from software / video shall export in the following formats: JPEG, TIFF, BMP, PNG	JPEG is the standard image used in the industry normally thus, requesting to provide option in the formats and ammend the clause to Captured images from software / video shall export in the following formats: **JPEG or TIFF or BMP or PNG**	**Clarification:** Tender conditions shall prevail
207.	Section 5.3.6	Body Cameras - Point No. 9	55	II	Shall support MP3 audio format	Currently MP4 audio formats are used in the industry which is standard audio format , thus, requesting to provide option and ammend the clause to Shall support **MP3 or MP4 audio format**	**Clause Amended as:** Please refer to the Corrigendum
208.	Section 5.3.6	Body Cameras - Point No. 11	55	II	Shall be able to export video format and be compatible with the following. MP4, AVI, WMV,WAV, MOV,H.264/ H.265, MPEG, DIVX	Currently MP4 formats are used in the industry which is standard format , thus, requesting to provide option and ammend the clause to Shall be able to export video format and be compatible with the following. MP4 **or** AVI **or** WMV **or** WAV **or** MOV **or** H.264/ H.265 **or** MPEG **or** DIVX	**Clause Amended as:** Please refer to the Corrigendum
209.	Section 5.3.6	Body Camera - Point No. 2	55	II	Captured images from software / video shall export in the following formats: JPEG, TIFF, BMP, PNG	JPEG is the standard image used in the industry normally thus, requesting to provide option in the formats and amend the clause to Captured images from software / video shall export in the following formats: JPEG or TIFF or BMP or PNG	**Clarification:** Tender conditions shall prevail
210.	Section 5.3.6	Body Camera - Point No. 9	55	II	Shall support MP3 audio format	Correctly MP4 audio formats are used in the industry which is standard audio format , thus, requesting to provide option and amend the clause to Shall support **MP3 or MP4 audio format**	**Clause Amended as:** Please refer to the Corrigendum
211.	Section 5.3.6	Body Camera - Point No. 11	55	II	Shall be able to export video format and be compatible with the following. MP4, AVI, WMV,WAV, MOV,H.264/ H.265, MPEG, DIVX	Correctly MP4 formats are used in the industry which is standard format , thus, requesting to provide option and amend the clause to Shall be able to export video format and be compatible with the following. MP4 **or** AVI **or** WMV **or** WAV **or** MOV **or** H.264/ H.265 **or** MPEG **or** DIVX	**Clause Amended as:** Please refer to the Corrigendum
212.	Section 5.6	Variable Message Display - 1. System Requirements	59	II	The central control computer shall perform regular tests (pre-set basis) for each individual VMS. Data Communication shall be provided with sufficient security check to avoid unauthorized access. VMS shall use 128-bit encryption to ensure downloads/transfer of files.	As this is a very important point related to security and prevention of misuse of a VMD we suggest to include this whole point under Section 6.5.1 Vol II as a mandatory requirement under compliance.	**Clarification:** Tender conditions shall prevail

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213.	Section 5.6	Variable Message Display - 1. System Requirements	59	II	Display should be CE, FCC, CB certified	To ensure the best quality VMD product is used we suggest to include this point under Section 6.5.1 Vol II as a mandatory requirement under compliance.	**Clarification:** Tender conditions shall prevail
214.	Section 5.6	Variable Message Display - 2. Variable Message Sign Board Application	60	II	Suggest to Include New Point under Variable Message Signboard Application	We suggest to Include "Emergency Message System" Emergency message system: VMS server application should have feature to define and display Emergency messages from the VMS server & android application. It should support Unicode characters. It should have option to play exclusive content playback. It should have option to publish the message to selected VMS or group locations. It should have feature for capturing proof of content displayed on the VMS screen location. It should have option to preview the message on the portal and android application for different screen sizes (3x2, 4x2, 2x1). It should support at least 20 characters per line with 3 lines & one headers. It should support spell check feature & auto correction feature. VMS site processor should have capability for auto adjusting the message to any screen resolution. Android application should able to support Android version 4.4 and above. Android application should be authenticated based on a activation key provided by OEM authorized personal.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
215.	Section 5.6	S.L- 03 Integrated Command Control Centre(ICCC) Platform - Variable Message Display (VMD) - Point No. 2	60	II	Location of each VMS will be plotted on GIS map with their functioning status which can be automatically updated	1-Who will be going to provide GIS base maps: Bidder or Department? 2- What will be the scale of base map? 3- If department, Then- what are the specification of base map such satellite image resolution, Layers, attributes, etc.	**Clarification:** The Bidder shall be required to provision GIS data (Spatial and non spatial) of the city infrastructure
216.	Section 5.9	Data Centre on Premise	63	II	General query- related to DC	Kindly consider a **hybrid cloud solution** for setting up your datacenter. The hybrid cloud solution should comprise of physical servers (in your own datacenter) that come with a software portal to provision compute, storage, network. The same portal should also allow you to expand to a public cloud when your datacenter needs more capacity.	**Clarification:** Tender Conditions shall prevail
217.	Section 5.9	Data Centre on Premise	63	II	General query- related to DC	The hybrid cloud solution servers should be an integrated system with IaaS & PaaS inbuilt- they should let you to provision VMs, databases without buying the perpetual licenses of underlying OS/database. You can pay-as-you-go for the OS/DB license.	**Clarification:** Tender Conditions shall prevail
218.	Section 5.9	Data Centre on Premise	63	II	Additional info required	Kindly specify the maximum number of users and devices internal to ASCL & assciate entities that willl use a OS related service. This is required for couting Client Access licenses.	Query not clear

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
219.	Section 5.9	Data Centre on Premise	63	II	Additional clause	Kindly add a clause in the RFP - that all software licenses in DC, DR have to be in the name of Amritsar Smart City limited.	**Clarification:** Already mentioned in the Section 3.4 of Vol-II of the RFP
220.	Section 5.9	Data Centre on Premise	63	II	Additional clause	Kindly add a clause in the RFP - All bidders must follow the proper licensing guidelines of the respective software OEM for the on-premise infrastructure as well as on the cloud based infrastructure. Any violation of the same, might cause the bidder to be blacklisted.	**Clarification:** Tender conditions shall prevail
221.	Section 5.9	Data Centre On Premise - Point No. (c)	64	II	Internet firewall shall be proposed with Next Generation Firewall including IPS & Anti-Malware Protection and Anti-APT functionality to protect the data centre network from internet born threats and shall be placed at perimeter level.	Request you to kindly modify the clause to, "Internet firewall shall be proposed with Next Generation Firewall including IPS ~~& Anti- Malware Protection and Anti-APT functionality~~ to protect the data centre network from internet born threats and shall be placed at perimeter level.". Endpoint anti-virus and anti-apt functionality has been asked separately in the RFP.	**Clause Amended as:** Please refer to the Corrigendum
222.	Section 5.9	Data Centre On Premise - Point No. (e)	64	II	Network Behaviour Analysis flow collector & sensors shall be placed at perimeter level for continuous real-time monitoring & pervasive view of all network traffic.	Request you to kindly modify the clause to, "**Anti-APT solution shall be proposed for endpoints, network and email** as per the functional requriements mentioned in section 5.13.3.6". The NBA solution and its detailed technical secifications are more than enough to clarify the archotecture for the solution. On the other hand, anti-apt solution is not mentioned in this section although it is one of the strongest pillars of the security posture for ASCL. Request you to kindly consider this change.	**Clarification:** Tender conditions shall prevail
223.	Section 5.10.1	General Requirements - Point No. IV	64	II	Bidder should ensure security, compliance, visibility, control of applications running in public cloud.	Request you to kindly amend it as" Bidder should ensure security, compliance, visibility, control of applications running in public cloud, **using real time visbility tool provifding real time information about vulnerable, non-compliant workloads running in both DC and public cloud DR environment**" Remarks: Tool should be provided to give visibility into DC, cloud environment, to ensure consistency real time visibility tool should be mentioned explicitly for bidders to quote	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
224.	Section 5.10.1	General Requirements - Point No. V	64	II	MSI should ensure portability of applications from on premise to CSP cloud, back to on premise cloud by use of standard formats to avoid cloud silos and to avoid application refactoring.	Request you to kindly amend it as" MSI should ensure portability of applications from on premise to CSP cloud, back to on premise cloud by use of standard formats to avoid cloud silos and to avoid application refactoring **using automated multi cloud application agnostic tool**" Remarks: Application portability is possible using application agnostic, multi cloud manangmenet tools. Request you to mention that specifically for bidders to include as part of the proposal	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
225.	Section 5.10.1	General Requirements - Point No. IV	64	II	Bidder should ensure security, compliance, visibility, control of applications running in public cloud.	Request you to kindly amend it as" Bidder should ensure security, compliance, visibility, control of applications running in public cloud, **using real time visbility tool provifding real time information about vulnerable, non-compliant workloads running in both DC and public cloud DR environment"** Remarks: Tool should be provided to give visibility into DC, cloud environment, to ensure consistency real time visibility tool should be mentioned explicitly for bidders to quote	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
226.	Section 5.10.3	General Requirements - Point No. V	64	II	MSI should ensure portability of applications from on premise to CSP cloud, back to on premise cloud by use of standard formats to avoid cloud silos and to avoid application refactoring.	Request you to kindly amend it as" MSI should ensure portability of applications from on premise to CSP cloud, back to on premise cloud by use of standard formats to avoid cloud silos and to avoid application refactoring **using automated multi cloud application agnostic tool"** Remarks: Application portability is possible using application agnostic, multi cloud manangmenet tools. Request you to mention that specifically for bidders to include as part of the proposal	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
227.	Section 5.9	Data Centre on Cloud - Point No. II (c)	64	II	Internet firewall shall be proposed with Next Generation Firewall including IPS & Anti-Malware Protection and Anti-APT functionality to protect the data centre network from internet born threats and shall be placed at perimeter level.	Request you to kindly modify the clause to, "Internet firewall shall be proposed with Next Generation Firewall including IPS ~~& Anti- Malware Protection and Anti-APT functionality~~ to protect the data centre network from internet born threats and shall be placed at perimeter level.". Endpoint anti-virus and anti-apt functionality has been asked separately in the RFP.	**Clause Amended as:** Please refer to the Corrigendum
228.	Section 5.9	Data Centre on Cloud - Point No. II (e)	64	II	Network Behaviour Analysis flow collector & sensors shall be placed at perimeter level for continuous real-time monitoring & pervasive view of all network traffic.	Request you to kindly modify the clause to, "**Anti-APT solution shall be proposed for endpoints, network** and email as per the functional requriements mentioned in section 5.13.3.6". The NBA solution and its detailed technical secifications are more than enough to clarify the archotecture for the solution. On the other hand, anti-apt solution is not mentioned in this section although it is one of the strongest pillars of the security posture for ASCL. Request you to kindly consider this change.	**Clarification:** Tender conditions shall prevail
229.	Section 5.9	Data Center on Premise - Point No. II (c)	64	II	c. Internet firewall shall be proposed with Next Generation Firewall including IPS & Anti- Malware Protection and Anti-APT functionality to protect the data centre network from internet born threats and shall be placed at perimeter level.	Since there is no mention of on-premise Anti-APT solution in the rfp hence to meet this requirement we suggest that The Internet NGFW should be proposed with on-premise Anti-APT/Sandbox solution with minimum 4x1GE and 2x10G SR ports and should support 24 VMs from day one.	**Clause Amended as:** Please refer to the Corrigendum
230.	Section 5.9	Data Center on Premise - Point No. II (c)	64	II	c. Internet firewall shall be proposed with Next Generation Firewall including IPS & Anti- Malware Protection and Anti-APT functionality to protect the data centre	Since there is no mention of on-premise Anti-APT solution in the rfp hence to meet this requirement we suggest that The Internet NGFW should be proposed with on-premise Anti-APT/Sandbox solution with	**Clause Amended as:** Please refer to the Corrigendum

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					network from internet born threats and shall be placed at perimeter level.	minimum 4x1GE and 2x10G SR ports and should support 24 VMs from day one.	
231.	Section 5.10.1	General Requirements - Point No. IV	64	II	Bidder should ensure security, compliance, visibility, control of applications running in public cloud.	MSI needs to share the sizing/list of security components required as a part of DR on cloud. CSP will provide underlying infrastructure for application and will support upto os layer only without having any control above infrastructure part.	Query not clear
232.	Section 5.10.1	General Requirements - Point No. IV	64	II	Bidder should ensure security, compliance, visibility, control of applications running in public cloud.	MSI needs to share the sizing/list of security components required as a part of DR on cloud. CSP will provide underlying infrastructure for application and will support upto os layer only without having any control above infrastructure part.	Query not clear
233.	Section 5.10.1	General Requirements- Point No. IV	64	II	Bidder should ensure security, compliance, visibility, control of applications running in public cloud.	MSI needs to share the sizing/list of security components required as a part of DR on cloud. CSP will provide underlying infrastructure for application and will support upto os layer only without having any control above infrastructure part.	Query not clear
234.	Section 5.10.1	General Requirements - Point No. IV	64	II	Bidder should ensure security, compliance, visibility, control of applications running in public cloud.	MSI needs to share the sizing/list of security components required as a part of DR on cloud. CSP will provide underlying infrastructure for application and will support upto os layer only without having any control above infrastructure part.	Query not clear
235.	Section 5.10.2	Availability and SLAs - Point No. II	65	II	II. Minimum 99.5% up time measured monthly for availability of the virtual machines at the respective Data Centre site.	Please confirm if this clause is applicable to cloud based DC/DR/both. If it is applicable to DR, then there is a contradiction to the clause just above this.	**Clause Amended as:** Please refer to the Corrigendum
236.	Section 5.10.2	Availability and SLAs - Point No. IV	65	II	The cloud provider should have the ability to automatically make multiple redundant copies of user data in primary as well as disaster recovery Data Centre.	Please clarify this point, Primary DC is on prim as per RFP	**Clause Amended as:** Please refer to the Corrigendum
237.	Section 5.10.2	Availability and SLAs - Point No. V	65	II	The integrated minimum SLA of 99.9 availability shall be provided for database and other service components.	Please clarify this point. Is it combined SAL for DC and DR	**Clause Amended as:** Please refer to the Corrigendum
238.	Section 5.10.2	Availability and SLAs - Point No. I	65	II	The Primary and Disaster Recovery cloud services shall be hosted by CSP's as per MEITY approved guidelines.	What are Primary site Cloud Services here. Please clarify.	**Clause Amended as:** Please refer to the Corrigendum
239.	Section 5.10.3	Cloud: Functional Requirements - Point No. III	65	II	It should be possible at any time to move the cloud virtual machine to ASCL's DC'S running industry leading hypervisors. The mechanism and technical requirements for achieving this should be well documented	Please share the Details of DC site Hypervisor. Possible with VMware, Hyper-V and KVM	**Clause Amended as:** Please refer to the Corrigendum
240.	Section 5.10.2	Availability & SLAs- Point no IV	65	II	The cloud provider should have the ability to automatically make multiple redundant copies of user data in primary as well as disaster recovery Data Centre.	Please clarify this point, Primary DC is on prim as per RFP	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
241.	Section 5.10.2	Availability & SLAs- Point no V	65	II	The integrated minimum SLA of 99.9 availability shall be provided for database and other service components.	Please clarify this point. Is it combined SAL for DC and DR	**Clause Amended as:** Please refer to the Corrigendum
242.	Section 5.10.2	Availability & SLAs- Point no I	65	II	The Primary and Disaster Recovery cloud services shall be hosted by CSP's as per MEITY approved guidelines.	What are Primary site Cloud Services here. Please clarify.	**Clause Amended as:** Please refer to the Corrigendum
243.	Section 5.10.3	Cloud Functional Requirements - Point No. III	65	II	It should be possible at any time to move the cloud virtual machine to ASCL's DC'S running industry leading hypervisors. The mechanism and technical requirements for achieving this should be well documented	Please share the Details of DC site Hypervisor. Possible with VMware, Hyper-V and KVM	**Clause Amended as:** Please refer to the Corrigendum
244.	Section 5.10.2	Availability and SLAs - Point No. IV	65	II	The cloud provider should have the ability to automatically make multiple redundant copies of user data in primary as well as disaster recovery Data Centre.	Please clarify this point, Primary DC is on prim as per RFP	**Clause Amended as:** Please refer to the Corrigendum
245.	Section 5.10.2	Availability & SLAs - Point No. IV	65	II	The cloud provider should have the ability to automatically make multiple redundant copies of user data in primary as well as disaster recovery Data Centre.	Please clarify this point, Primary DC is on prim as per RFP	**Clause Amended as:** Please refer to the Corrigendum
246.	Section 5.10.2	Availability & SLAs - Point No. V	65	II	The integrated minimum SLA of 99.9 availability shall be provided for database and other service components.	Please clarify this point. Is it combined SAL for DC and DR	**Clause Amended as:** Please refer to the Corrigendum
247.	Section 5.10.2	Availability & SLAs - Point No. 1	65	II	The Primary and Disaster Recovery cloud services shall be hosted by CSP's as per MEITY approved guidelines.	What are Primary site Cloud Services here. Please clarify.	**Clause Amended as:** Please refer to the Corrigendum
248.	Section 5.10.3	Cloud Functional Requirements - Point No. III	65	II	It should be possible at any time to move the cloud virtual machine to ASCL's DC'S running industry leading hypervisors. The mechanism and technical requirements for achieving this should be well documented	Please share the Details of DC site Hypervisor. Possible with VMware, Hyper-V and KVM	**Clause Amended as:** Please refer to the Corrigendum
249.	Section 5.10.2	Availability and SLAs - Point No. V	65	II	The integrated minimum SLA of 99.9 availability shall be provided for database and other service components.	Please clarify this point. Is it combined SAL for DC and DR	**Clause Amended as:** Please refer to the Corrigendum
250.	Section 5.10.2	Availability and SLAs - Point No. I	65	II	The Primary and Disaster Recovery cloud services shall be hosted by CSP's as per MEITY approved guidelines.	What are Primary site Cloud Services here. Please clarify.	**Clause Amended as:** Please refer to the Corrigendum
251.	Section 5.10.3	Cloud: Functional Requirements - Point No. III	65	II	It should be possible at any time to move the cloud virtual machine to ASCL's DC'S running industry leading hypervisors. The mechanism and technical requirements for achieving this should be well documented	Please share the Details of DC site Hypervisor. Possible with VMware, Hyper-V and KVM	**Clause Amended as:** Please refer to the Corrigendum
252.	Section 5.10.5	User/Administrative management Point No. IX	66	II	The CSP should provide monitoring tools that will enable collection and tracking metrics, collection and monitoring log files, set alarms, and automatically react to changes in the provisioned resources. The	Monitoring tools for application performance needs to be part of BOQ and as per MSI guidance	**Clarification:** The Bidder shall be required to provision required monitoring tools as part of entire solution

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					monitoring tools should be able to monitor resources such as compute and other resources to gain system-wide visibility into resource utilization, application performance, and operational health.		
253.	Section 5.10.5	User/Administrative management Point No. IX	66	II	The CSP should provide monitoring tools that will enable collection and tracking metrics, collection and monitoring log files, set alarms, and automatically react to changes in the provisioned resources. The monitoring tools should be able to monitor resources such as compute and other resources to gain system-wide visibility into resource utilization, application performance, and operational health.	Monitoring tools for application performance needs to be part of BOQ and as per MSI guidance	**Clarification:** The Bidder shall be required to provision required monitoring tools as part of entire solution
254.	Section 5.10.4	User / administrative management - Point No. IX	66	II	The CSP should provide monitoring tools that will enable collection and tracking metrics, collection and monitoring log files, set alarms, and automatically react to changes in the provisioned resources. The monitoring tools should be able to monitor resources such as compute and other resources to gain system-wide visibility into resource utilization, application performance, and operational health.	Monitoring tools for application performance needs to be part of BOQ and as per MSI guidance	**Clarification:** The Bidder shall be required to provision required monitoring tools as part of entire solution
255.	Section 5.10.4	User / administrative management - Point No. IX	66	II	The CSP should provide monitoring tools that will enable collection and tracking metrics, collection and monitoring log files, set alarms, and automatically react to changes in the provisioned resources. The monitoring tools should be able to monitor resources such as compute and other resources to gain system-wide visibility into resource utilization, application performance, and operational health.	Monitoring tools for application performance needs to be part of BOQ and as per MSI guidance	**Clarification:** The Bidder shall be required to provision required monitoring tools as part of entire solution
256.	Section 5.10.7	Network Services- Point No. Viii	68	II	Allow penetration testing to be done by scheduling it in advance	Please clarify this point	**Clarification:** The MSI shall undertake penetration testing activity by scheduling the activity in advance and its impact on the overall functioning of the system
257.	Section 5.10.8	Security, Privacy and Compliance Requirements - Point No. VIII	68	II	Allow penetration testing to be done by scheduling it in advance	Please clarify this point	**Clarification:** The MSI shall undertake penetration testing activity by scheduling the activity in advance and its impact on the overall functioning of the system

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258.	Section 5.10.8	Security, Privacy and Compliance Requirements - Point No. VIII	68	II	Allow penetration testing to be done by scheduling it in advance	Please clarify this point	**Clarification:** The MSI shall undertake penetration testing activity by scheduling the activity in advance and its impact on the overall functioning of the system
259.	Section 5.10.8	Security, Privacy and Compliance Requirements - Point No. VIII	68	II	Allow penetration testing to be done by scheduling it in advance	Please clarify this point	**Clarification:** The MSI shall undertake penetration testing activity by scheduling the activity in advance and its impact on the overall functioning of the system
260.	Section 5.11	Data Centre on Cloud - Point No. I (c)	69	II	The hosting environment shall be a Public Cloud which shall be connected to City Operation Centre via VPN once it is available. The SI shall be responsible to provision necessary VPN termination infrastructure (e.g., Virtual private gateway, NAT, VPN Software etc.) on Pubic Cloud side for such connectivity.	The hosting environment shall be a Public Cloud which shall be connected to City Operation Centre via VPN once it is available. The SI shall be responsible to provision necessary VPN termination infrastructure **on Pubic Cloud side for such connectivity.** Remarks: Site to site or multi-site connection is already asked in above points, request you to dilute this for wider participation	**Clarification:** Tender conditions shall prevail
261.	Section 5.11	Data Centre on Cloud - Point No. (c)	69	II	The hosting environment shall be a Public Cloud which shall be connected to City Operation Centre via VPN once it is available. The SI shall be responsible to provision necessary VPN termination infrastructure (e.g., Virtual private gateway, NAT, VPN Software etc.) on Pubic Cloud side for such connectivity.	The hosting environment shall be a Public Cloud which shall be connected to City Operation Centre via VPN once it is available. The SI shall be responsible to provision necessary VPN termination infrastructure **on Pubic Cloud side for such connectivity.** Remarks: Site to site or multi-site connection is already asked in above points, request you to dilute this for wider participation	**Clarification:** Tender conditions shall prevail
262.	Section 5.12	Disaster Recovery on Cloud - Point No. 13	69	II	Point 13: The design ensure redundancy at each level	As per the point 13, understood RFP asking for 100% DR capacity as DC ensuring redundancy at each level. Request authorities to confirm	**Clause Amended as:** Please refer to the Corrigendum
263.	Section 5.12	Disaster Recovery on Cloud	69	II	General Query about CSPs offering both DC, DR as a service	Refer details of audited cloud service providers on the website of MEITY- http://meity.gov.in/content/gi-cloud-meghraj. There is a star marked condition that says- some of the cloud vendors, can offer only one of the two services either DC or DR, to the departments. Is that clause is applicable in this RFP also?	**Clarification:** Only DR on cloud is under the scope of the RFP
264.	Section 5.12	Disaster Recovery on Cloud	69	II	General Query about DR as a service	Refer details of audited cloud service providers on the website of MEITY- http://meity.gov.in/content/gi-cloud-meghraj. Many CSPs are restricted not empaneled for offering Managed BCDR services. Is that clause is applicable in this RFP also?	**Clarification:** Only DR on cloud is under the scope of the RFP

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265.	Section 5.12	Disaster Recovery on Cloud	69	II	General Query about DR as a service	We suggest that you include the following industry qualifications from a cloud service provider for offering any cloud services- 1. Leader in Gartner Magic Quadrant for cloud infra services 2. ISO 22301 certification for BCDR 3. SOC 1,2,3 certification 4. CSP should have minimum 2 datacenters in India which are >=750 Km apart	**Clarification:** Tender conditions shall prevail
266.	Section 5.12	Disaster Recovery on Cloud	69	II	Provide a robust, fault tolerant infrastructure with enterprise grade SLAs with an assured uptime of 99.999%, SLA measured at the VM Level & SLA measured at the Storage Levels	This clause limits the cloud vendors, who are Global OEMs with same SLAs worldwide. This must be modified. Please take 99.9 % as the uptime SLA	**Clause Amended as:** Please refer to the Corrigendum
267.	Section 5.12	Disaster Recovery on Cloud- Point No. I	69	II	I. There should be logical separation (of space, servers, storage, network infrastructure and networks) to protect data, applications and servers on Private cloud.	Requesting you to change it from private cloud to Virtual Private Cloud or Public Cloud. **"There should be logical separation (of space, servers, storage, network infrastructure and networks) to protect data, applications and servers on Public cloud "**	**Clause Amended as:** Please refer to the Corrigendum
268.	Section 5.11	Data center on Cloud - Design Gudelines - Point No. a	69	II	I. Design Guidelines a. The MSI shall propose Public Cloud services only from the MeitY approved and empanelled Cloud Service Provider (CSP's)	**We Propose to have GCC-Government Community Cloud. A Platform designed specifically for Government State and Central ministries only, No foreign player or Corporate are present/allowed at GCC. MeitY- Empanelled Government Community cloud has been created • To meet the unique and evolving requirements of the government agencies and partners to deploy moderately sensitive data to the dedicated cloud i.e. Government Community Cloud (GCC) as compared to Public Cloud Service Offerings (which is not dedicated to Government agencies). •** As a MeitY-empanelled service provider, GCC services meet all the MeitY criteria to provide more secure and efficient solutions. • The structure of Government Community Cloud build to provide ISOLATED environment for government customers only where government client is only hosted. • GCC has been setup with its Primary Data Centre and DR sites located in different seismic zones to ensure full operational continuity of critical government departments in the event of a Primary Data Centre failure. • DCs are Tier-III compliant and ISO 27001:2013 certified. They are also assessed for SSAE 18/ ISAE 3402 standards. • In major public cloud offerings, Government agency are not allowed to visit the Data Centre. But in Case of Government Community Cloud, Government bodies	**Clarification:** Tender conditions shall prevail

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						can visit the DC or DR site, if Required **Essential Certifications and Compliance for GCC which may not available in public Cloud.** • GCC offering is fully compliant with the STQC and MeitY audit requirements. • ISO 27001 — a standard to keep information assets secure • ISO/IEC 27017:2015 — a code of practice for information security controls • ISO 27018 — a code of practice for protection of personally identifiable information (PII) in the cloud • ISO 20000-9 — guidance on the application of ISO/IEC 20000-1 to cloud services • PCI DSS — compliant technology infrastructure for storing, processing and transmitting credit card information in the cloud. • The Global Service Management Centre (GSMC) provides NOC & SOC services compliant with ISO 27001:2013 and ISO 20000-1:2011 • Tier-III compliant and ISO 27001:2013-certified data centres.	
269.	Section 5.11	Data Center on Cloud - Point No. I	69	II	I. Design Guidelines a. The MSI shall propose Public Cloud services only from the MeitY approved and empanelled Cloud Service Provider (CSP's). The CSP should have cleared the STQC audit as mandated by MEITYas on date of submission of bids to be considered as valid. The vendors should be fully compliant with all guidelines issued by MeitY namely o Guidelines for Government Departments for Adoption I Procurement of Cloud Services o Guidelines for Government Departments on Service Level Agreement for Procuring Cloud Services o Guidelines for Government Departments on Contractual Terms Related to Cloud Services b. The CSP's regional nodes which are used for hosting the infrastructure including disaster recovery shall be within India. c. The hosting environment shall be a Public Cloud which shall be connected to City Operation Centre via VPN once it is available. The SI shall be responsible to provision necessary VPN termination infrastructure (e.g., Virtual private gateway, NAT, VPN Software etc.)	In India there are limited Public cloud operator, you should allow private cloud operator as well which are also Meity empaneled.	**Clarification:** Tender conditions shall prevail

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					on Pubic Cloud side for such connectivity. d. The MSI shall plan for pre-production environments for Development, Testing and Staging of any application change requirements, patches or upgrades and shall deploy them in production only upon approval from ASCL.		
270.	Section 5.12	Disaster Recovery on Cloud - Point No. II	69	II	The cameras shall operate at lower settings i.e. 720P @ 10 FPS in case of DR scenario. This setting profile shall be applied by VMS on cloud on field cameras to reduce bitrate in DR scenario. ANPRcameras shall operate at 720p@ 25 FPS.	Settings for VMs on cloud-DR need to be shared by MSI	Query not clear
271.	Section 5.12	Disaster Recovery on Cloud - Point No. III	69	II	All applications in scope shall be operational from DR site after DC is not available as per RTO/RPOguideline	Failover and failback of application will be under MSI scope of work	Query not clear
272.	Section 5.12	Disaster Recovery on Cloud - Point No. I	69	II	I. There should be logical separation (of space, servers, storage, network infrastructure and networks) to protect data, applications and servers on Private cloud.	Requesting you to change it from private cloud to Virtual Private Cloud or Public Cloud. **"There should be logical separation (of space, servers, storage, network infrastructure and networks) to protect data, applications and servers on Public cloud** "	**Clause Amended as:** Please refer to the Corrigendum
273.	Section 5.11	Disaster Recovery on Cloud - Point No. I (a.)	69	II	I. Design Guidelines a. The MSI shall propose Public Cloud services only from the MeitY approved and empaneled Cloud Service Provider (CSP's)	**We Propose to have GCC-Government Community Cloud. A Platform designed specifically for Government State and Central ministries only, No foreign player or Corporates are present/allowed at GCC. MeitY- Empanelled Government Community cloud has been created • To meet the unique and evolving requirements of the government agencies and partners to deploy moderately sensitive data to the dedicated cloud i.e. Government Community Cloud (GCC) as compared to Public Cloud Service Offerings (which is not dedicated to Government agencies).** • As a MeitY-empanelled service provider, GCC services meet all the MeitY criteria to provide more secure and efficient solutions. • The structure of Government Community Cloud build to provide ISOLATED environment for government customers only where government client is only hosted. • GCC has been setup with its Primary Data Centre and DR sites located in different seismic zones to ensure full operational continuity of critical government departments in the event of a Primary Data Centre failure. • DCs are Tier-III compliant and ISO 27001:2013 certified. They are also assessed for SSAE 18/ ISAE 3402 standards.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						• In major public cloud offerings, Government agency are not allowed to visit the Data Centre. But in Case of Government Community Cloud, Government bodies can visit the DC or DR site, if Required **Essential Certifications and Compliance for GCC which may not available in public Cloud.** • GCC offering is fully compliant with the STQC and MeitY audit requirements. • ISO 27001 — a standard to keep information assets secure • ISO/IEC 27017:2015 — a code of practice for information security controls • ISO 27018 — a code of practice for protection of personally identifiable information (PII) in the cloud • ISO 20000-9 — guidance on the application of ISO/IEC 20000-1 to cloud services • PCI DSS — compliant technology infrastructure for storing, processing and transmitting credit card information in the cloud. • The Global Service Management Centre (GSMC) provides NOC & SOC services compliant with ISO 27001:2013 and ISO 20000-1:2011 • Tier-III compliant and ISO 27001:2013-certified data centres**.**	
274.	Section 5.11	Data Centre on Cloud - Point No. I	69	II	I. Design Guidelines a. The MSI shall propose Public Cloud services only from the MeitY approved and empaneled Cloud Service Provider (CSP's). The CSP should have cleared the STQC audit as mandated by MEITYas on date of submission of bids to be considered as valid. The vendors should be fully compliant with all guidelines issued by MeitY namely o Guidelines for Government Departments for Adoption I Procurement of Cloud Services o Guidelines for Government Departments on Service Level Agreement for Procuring Cloud Services o Guidelines for Government Departments on Contractual Terms Related to Cloud Services b. The CSP's regional nodes which are used for hosting the infrastructure including disaster recovery shall be within India. c. The hosting environment shall be a Public Cloud which shall be connected to City Operation Centre via VPN once it is available. The SI shall be responsible to provision necessary	In India there are limited Public cloud operator, you should allow private cloud operator as well which are also Meity empaneled.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					VPN termination infrastructure (e.g., Virtual private gateway, NAT, VPN Software etc.) on Pubic Cloud side for such connectivity. d. The MSI shall plan for pre-production environments for Development, Testing and Staging of any application change requirements, patches or upgrades and shall deploy them in production only upon approval from ASCL.		
275.	Section 5.12	Disaster Recovery on Cloud - Point No. II	69	II	The cameras shall operate at lower settings i.e. 720P @ 10 FPS in case of DR scenario. This setting profile shall be applied by VMS on cloud on field cameras to reduce bitrate in DR scenario. ANPRcameras shall operate at 720p@ 25 FPS.	Settings for VMs on cloud-DR need to be shared by MSI	Query not clear
276.	Section 5.12	Disaster Recovery on Cloud - Point No. III	69	II	All applications in scope shall be operational from DR site after DC is not available as per RTO/RPOguideline	Failover and failback of application will be under MSI scope of work	Query not clear
277.	Section 5.12	Disaster Recovery on Cloud - Point No. I	69	II	I. There should be logical separation (of space, servers, storage, network infrastructure and networks) to protect data, applications and servers on Private cloud.	Requesting you to change it from private cloud to Virtual Private Cloud or Public Cloud. **"There should be logical separation (of space, servers, storage, network infrastructure and networks) to protect data, applications and servers on Public cloud "**	**Clause Amended as:** Please refer to the Corrigendum
278.	Section 5.11	Data Centre on Cloud - Point No. I	69	II	I. Design Guidelines a. The MSI shall propose Public Cloud services only from the MeitY approved and empaneled Cloud Service Provider (CSP's). The CSP should have cleared the STQC audit as mandated by MEITYas on date of submission of bids to be considered as valid. The vendors should be fully compliant with all guidelines issued by MeitY namely o Guidelines for Government Departments for Adoption I Procurement of Cloud Services o Guidelines for Government Departments on Service Level Agreement for Procuring Cloud Services o Guidelines for Government Departments on Contractual Terms Related to Cloud Services b. The CSP's regional nodes which are used for hosting the infrastructure including disaster recovery shall be within India. c. The hosting environment shall be a Public Cloud which shall be connected to City	In India there are limited Public cloud operator, you should allow private cloud operator as well which are also Meity empaneled.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					Operation Centre via VPN once it is available. The SI shall be responsible to provision necessary VPN termination infrastructure (e.g., Virtual private gateway, NAT, VPN Software etc.) on Pubic Cloud side for such connectivity. d. The MSI shall plan for pre-production environments for Development, Testing and Staging of any application change requirements, patches or upgrades and shall deploy them in production only upon approval from ASCL.		
279.	Section 5.12	Disaster Recovery on Cloud - Point No. II	69	II	The cameras shall operate at lower settings i.e. 720P @ 10 FPS in case of DR scenario. This setting profile shall be applied by VMS on cloud on field cameras to reduce bitrate in DR scenario. ANPRcameras shall operate at 720p@ 25 FPS.	Settings for VMs on cloud-DR need to be shared by MSI	Query not clear
280.	Section 5.12	Disaster Recovery on Cloud - Point No. III	69	II	All applications in scope shall be operational from DR site after DC is not available as per RTO/RPOguideline	Failover and failback of application will be under MSI scope of work	Query not clear
281.	Section 5.11	Data Centre on Cloud - Point No. I	69	II	I. Design Guidelines a. The MSI shall propose Public Cloud services only from the MeitY approved and empaneled Cloud Service Provider (CSP's)	We Propose to have GCC-Government Community Cloud. A Platform designed specifically for Government State and Central ministries only, No foreign player or Corporates are present/allowed at GCC. MeitY-Empanelled Government Community cloud has been created • To meet the unique and evolving requirements of the government agencies and partners to deploy moderately sensitive data to the dedicated cloud i.e. Government Community Cloud (GCC) as compared to Public Cloud Service Offerings (which is not dedicated to Government agencies). • As a MeitY-empanelled service provider, GCC services meet all the MeitY criteria to provide more secure and efficient solutions. • The structure of Government Community Cloud build to provide ISOLATED environment for government customers only where government client is only hosted. • GCC has been setup with its Primary Data Centre and DR sites located in different seismic zones to ensure full operational continuity of critical government departments in the event of a Primary Data Centre failure. • DCs are Tier-III compliant and ISO 27001:2013 certified. They are also assessed for SSAE 18/ ISAE 3402 standards. • In major public cloud offerings, Government agency	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						are not allowed to visit the Data Centre. But in Case of Government Community Cloud, Government bodies can visit the DC or DR site, if Required **Essential Certifications and Compliance for GCC which may not available in public Cloud.** • GCC offering is fully compliant with the STQC and MeitY audit requirements. • ISO 27001 — a standard to keep information assets secure • ISO/IEC 27017:2015 — a code of practice for information security controls • ISO 27018 — a code of practice for protection of personally identifiable information (PII) in the cloud • ISO 20000-9 — guidance on the application of ISO/IEC 20000-1 to cloud services • PCI DSS — compliant technology infrastructure for storing, processing and transmitting credit card information in the cloud. • The Global Service Management Centre (GSMC) provides NOC & SOC services compliant with ISO 27001:2013 and ISO 20000-1:2011 • Tier-III compliant and ISO 27001:2013-certified data centres**.**	
282.	Section 5.11	Data Centre on Cloud - Point No. I	69	II	I. Design Guidelines a. The MSI shall propose Public Cloud services only from the MeitY approved and empaneled Cloud Service Provider (CSP's). The CSP should have cleared the STQC audit as mandated by MEITYas on date of submission of bids to be considered as valid. The vendors should be fully compliant with all guidelines issued by MeitY namely o Guidelines for Government Departments for Adoption I Procurement of Cloud Services o Guidelines for Government Departments on Service Level Agreement for Procuring Cloud Services o Guidelines for Government Departments on Contractual Terms Related to Cloud Services b. The CSP's regional nodes which are used for hosting the infrastructure including disaster recovery shall be within India. c. The hosting environment shall be a Public Cloud which shall be connected to City Operation Centre via VPN once it is available. The SI shall be responsible to provision necessary VPN termination infrastructure (e.g., Virtual	In India there are limited Public cloud operator, you should allow private cloud operator as well which are also Meity empaneled.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					private gateway, NAT, VPN Software etc.) on Pubic Cloud side for such connectivity. d. The MSI shall plan for pre-production environments for Development, Testing and Staging of any application change requirements, patches or upgrades and shall deploy them in production only upon approval from ASCL.		
283.	Section 5.12	Disaster Recovery on Cloud - Point No. II	69	II	The cameras shall operate at lower settings i.e. 720P @ 10 FPS in case of DR scenario. This setting profile shall be applied by VMS on cloud on field cameras to reduce bitrate in DR scenario. ANPRcameras shall operate at 720p@ 25 FPS.	Settings for VMs on cloud-DR need to be shared by MSI	Query not clear
284.	Section 5.12	Disaster Recovery on Cloud - Point No. III	69	II	All applications in scope shall be operational from DR site after DC is not available as per RTO/RPOguideline	Failover and failback of application will be under MSI scope of work	Query not clear
285.	Section 5.11	Data Centre on Cloud - Point No. I	69	II	I. Design Guidelines a. The MSI shall propose Public Cloud services only from the MeitY approved and empaneled Cloud Service Provider (CSP's)	We Propose to have GCC-Government Community Cloud. A Platform designed specifically for Government State and Central ministries only, No foreign player or Corporates are present/allowed at GCC. MeitY-Empanelled Government Community cloud has been created • To meet the unique and evolving requirements of the government agencies and partners to deploy moderately sensitive data to the dedicated cloud i.e. Government Community Cloud (GCC) as compared to Public Cloud Service Offerings (which is not dedicated to Government agencies). • As a MeitY-empanelled service provider, GCC services meet all the MeitY criteria to provide more secure and efficient solutions. • The structure of Government Community Cloud build to provide ISOLATED environment for government customers only where government client is only hosted. • GCC has been setup with its Primary Data Centre and DR sites located in different seismic zones to ensure full operational continuity of critical government departments in the event of a Primary Data Centre failure. • DCs are Tier-III compliant and ISO 27001:2013 certified. They are also assessed for SSAE 18/ ISAE 3402 standards. • In major public cloud offerings, Government agency are not allowed to visit the Data Centre. But in Case of Government Community Cloud, Government bodies can visit the DC or DR site, if Required **Essential Certifications and Compliance for GCC**	**Clarification:** Tender conditions shall prevail Only the DR site shall be hosted on the MeitY empanelled CSP

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						which may not available in public Cloud. • GCC offering is fully compliant with the STQC and MeitY audit requirements. • ISO 27001 — a standard to keep information assets secure • ISO/IEC 27017:2015 — a code of practice for information security controls • ISO 27018 — a code of practice for protection of personally identifiable information (PII) in the cloud • ISO 20000-9 — guidance on the application of ISO/IEC 20000-1 to cloud services • PCI DSS — compliant technology infrastructure for storing, processing and transmitting credit card information in the cloud. • The Global Service Management Centre (GSMC) provides NOC & SOC services compliant with ISO 27001:2013 and ISO 20000-1:2011 • Tier-III compliant and ISO 27001:2013-certified data centres.	
286.	Section 5.12	NA	69	II		Please clarify " Is DC and DR both expected on Meity Empnallend Public cloud or DC would be On Premise and only DR would be on cloud ?"	**Clarification:** Only the DR site shall be hosted on the MeitY empanelled CSP
287.	Section 5.12	NA	69	II		Please clarify " Is DC and DR both expected on Meity Empnallend Public cloud or DC would be On Premise and only DR would be on cloud ?"	**Clarification:** Only the DR site shall be hosted on the MeitY empanelled CSP
288.	Section 5.12	Disaster Recovery on Cloud- Point No. X	70	II	X. The system shall be hosted in the site identified by the MSI and as agreed by the ASCL for DR in a different seismic zone	Requesting you to change it: **" The system shall be hosted in the site identified by the MSI and as agreed by the ASCL for DR in a different seismic zone or differnt physcial locations supporting active-active configfuration between DC and DR "** AWS has multiple "availability zones" within India region that are different facilities in different places but not necessarily different siesmic zone. Each Availability Zone is designed as an independent failure zone. This means that Availability Zones are physically separated within a typical metropolitan region and are located in lower risk flood plains (specific flood zone categorization varies by Region). Each availability zone runs on its physically distinct and independent infrastructure and do not share common points of failures like generators and cooling equipment across the multiple data center facilities. AWS provides customers the flexibility to place	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						instances and store data across multiple Availability Zones within each region. Core applications can be deployed in an N+1 configuration, so that in the highly unlikely event of a data center failure, there is sufficient capacity to enable traffic to be load balanced to the remaining "availability zone". Applications can also be architected for near-zero RPO and RTO that can be achieved through synchronous replication of data across the primary and secondary sites. This is possible only when the data centers are close enough to allow high-speed low latency links for synchronous replication but at the same physically distinct and far apart so that even uncommon disasters such as fires, tornados, or flooding do not simultaneously impact both the facilities	
289.	Section 5.12	Disaster Recovery on Cloud - Point No. XV	70	II	Provide a robust, fault tolerant infrastructure with enterprise grade SLAs with an assured uptime of 99.999%, SLA measured at the VM Level & SLA measured at the Storage Levels	Industry standard are 99.9% in HA, request to modify as asked SLA are not feasible.	**Clause Amended as:** Please refer to the Corrigendum
290.	Section 5.12	Disaster Recovery on Cloud - Point No. X	70	II	X. The system shall be hosted in the site identified by the MSI and as agreed by the ASCL for DR in a different seismic zone	Requesting you to change it: **" The system shall be hosted in the site identified by the MSI and as agreed by the ASCL for DR in a different seismic zone or differnt physcial locations supporting active-active configfuration between DC and DR "** AWS has multiple "availability zones" within India region that are different facilities in different places but not necessarily different siesmic zone. Each Availability Zone is designed as an independent failure zone. This means that Availability Zones are physically separated within a typical metropolitan region and are located in lower risk flood plains (specific flood zone categorization varies by Region). Each availability zone runs on its physically distinct and independent infrastructure and do not share common points of failures like generators and cooling equipment across the multiple data center facilities. AWS provides customers the flexibility to place instances and store data across multiple Availability Zones within each region. Core applications can be deployed in an N+1 configuration, so that in the highly unlikely event of a data center failure, there is sufficient capacity to enable traffic to be load balanced to the remaining "availability zone".	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						Applications can also be architected for near-zero RPO and RTO that can be achieved through synchronous replication of data across the primary and secondary sites. This is possible only when the data centers are close enough to allow high-speed low latency links for synchronous replication but at the same physically distinct and far apart so that even uncommon disasters such as fires, tornados, or flooding do not simultaneously impact both the facilities	
291.	Section 5.12	Disaster Recovery on Cloud - Point No. XV	70	II	Provide a robust, fault tolerant infrastructure with enterprise grade SLAs with an assured uptime of 99.999%, SLA measured at the VM Level & SLA measured at the Storage Levels	Industry standard are 99.9% in HA, request to modify as asked SLA are not feasible.	**Clause Amended as:** Please refer to the Corrigendum
292.	Section 5.12	Disaster Recovery on Cloud - Point No. X	70	II	X. The system shall be hosted in the site identified by the MSI and as agreed by the ASCL for DR in a different seismic zone	Requesting you to change it: **" The system shall be hosted in the site identified by the MSI and as agreed by the ASCL for DR in a different seismic zone or differnt physcial locations supporting active-active configfuration between DC and DR "** AWS has multiple "availability zones" within India region that are different facilities in different places but not necessarily different siesmic zone. Each Availability Zone is designed as an independent failure zone. This means that Availability Zones are physically separated within a typical metropolitan region and are located in lower risk flood plains (specific flood zone categorization varies by Region). Each availability zone runs on its physically distinct and independent infrastructure and do not share common points of failures like generators and cooling equipment across the multiple data center facilities. AWS provides customers the flexibility to place instances and store data across multiple Availability Zones within each region. Core applications can be deployed in an N+1 configuration, so that in the highly unlikely event of a data center failure, there is sufficient capacity to enable traffic to be load balanced to the remaining "availability zone". Applications can also be architected for near-zero RPO and RTO that can be achieved through synchronous replication of data across the primary and secondary sites. This is possible only when the data centers are close enough to allow high-speed low latency links for	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						synchronous replication but at the same physically distinct and far apart so that even uncommon disasters such as fires, tornados, or flooding do not simultaneously impact both the facilities	
293.	Section 5.12	Disaster Recovery on Cloud - Point No. XV	70	II	Provide a robust, fault tolerant infrastructure with enterprise grade SLAs with an assured uptime of 99.999%, SLA measured at the VM Level & SLA measured at the Storage Levels	Industry standard are 99.9% in HA, request to modify as asked SLA are not feasible.	**Clause Amended as:** Please refer to the Corrigendum
294.	Section 5.12	Disaster Recovery on Cloud - Point No. XV	70	II	Provide a robust, fault tolerant infrastructure with enterprise grade SLAs with an assured uptime of 99.999%, SLA measured at the VM Level & SLA measured at the Storage Levels	Industry standard are 99.9% in HA, request to modify as asked SLA are not feasible.	**Clause Amended as:** Please refer to the Corrigendum
295.	Section 5.13.3		77	II	Security Operations - Managed Detection and Response Services coupled with threat intelligence services by MSI.	This is a comprehensive list of tools and technology which will result in a world class Security Operatons Center. However, the strength of any SOC is in direct proportion to 2 things: 1. Quality of the global threat intelligence 2. Quality of the tools and technology We sincerely request you to kindly earmark the basic minimum requirements in terms of specifications for all tools asked and to include a basic minimum sizing criteria for hte organisatino providing the threat intelligence in order to strengthen the overall solution. As a part of SOC solution Bidder shall propose Threat Intelligence Feed from Global security OEM with following minimum characteristics. The Threat intelligence platform should provide data feeds that integrate into a SIEM, a customizable research portal that can be customized for use by the organization. 1 "Vendor Threat Intelligenceshould have intelliegnce build using monitoring of following minimum events: a. More than 200K sensors monitoring networks b. More than 5 billion emails per day c. More than 1 billion web requests a day d. Must monitor globally over 100 Million products and services" 2 Vendor must provide Advanced IP Reputation reputation. 3 Vendor must refresh the datafeed every 6 hours. 4 "Vendor must provice following attributes as part of datafeeds based on the availability: a. IP,Domain, Hostility, Reputation, Confidence, Behavior, Consecutive Days, Listing over a 90 day window, Geo-location Attributes, Industry Attributes,	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						Ownership Attributes, Registration Attributes, Attack Behavior Details, Malware Behavior Details, Phishing Behavior Details, Fraud Behavior Details, Bot Behavior Details, CnC Behavior Details, Spam Behavior Details"	
296.	Sectionm 5.13.3		77	II	Security Operations - Managed Detection and Response Services coupled with threat intelligence services by MSI.	This is a comprehensive list of tools and technology which will result in a world class Security Operatons Center. However, the strength of any SOC is in direct proportion to 2 things: 1. Quality of the global threat intelligence 2. Quality of the tools and technology We sincerely request you to kindly earmark the basic minimum requirements in terms of specifications for all tools asked and to include a basic minimum sizing criteria for hte organisatino providing the threat intelligence in order to strengthen the overall solution. As a part of SOC solution Bidder shall propose Threat Intelligence Feed from Global security OEM with following minimum characteristics. The Threat intelligence platform should provide data feeds that integrate into a SIEM, a customizable research portal that can be customized for use by the organization. 1 "Vendor Threat Intelligenceshould have intelliegnce build using monitoring of following minimum events: a. More than 200K sensors monitoring networks b. More than 5 billion emails per day c. More than 1 billion web requests a day d. Must monitor globally over 100 Million products and services" 2 Vendor must provide Advanced IP Reputation reputation. 3 Vendor must refresh the datafeed every 6 hours. 4 "Vendor must provice following attributes as part of datafeeds based on the availability: a. IP,Domain, Hostility, Reputation, Confidence, Behavior, Consecutive Days, Listing over a 90 day window, Geo-location Attributes, Industry Attributes, Ownership Attributes, Registration Attributes, Attack Behavior Details, Malware Behavior Details, Phishing Behavior Details, Fraud Behavior Details, Bot Behavior Details, CnC Behavior Details, Spam Behavior Details"	RFP reference could not be established
297.	Section 5.13.3.3	Internal and Internet Firewalls - Point No. III	79	II	Support for access-rules for both IPv4 & IPv6 objects simultaneously with detecting & blocking malware and sandboxing, as per the guidelines defined in the section Protection against Advanced Malware and have a rich set of Northbound APIs for it to be integrated into a SIEM system.	Reques you to kindly modify the clause to, "Support for access-rules for both IPv4 & IPv6 objects simultaneously, as per the guidelines defined in the section Protection against Advanced Malware and have a rich set of Northbound APIs for it to be integrated into a SIEM system." **The sandboxing capabilities are mentioned in another section of the RFP separately. Therefore, request you to delete this clause from**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						this section in order to prevent overlap of security solutions for ASCL.	
298.	Section 5.13.3.3	Internal and Internet Firewalls - Point No. III	79	II	Support for access-rules for both IPv4 & IPv6 objects simultaneously with detecting & blocking malware and sandboxing, as per the guidelines defined in the section Protection against Advanced Malware and have a rich set of Northbound APIs for it to be integrated into a SIEM system.	Reques you to kindly modify the clause to, "Support for access-rules for both IPv4 & IPv6 objects simultaneously, as per the guidelines defined in the section Protection against Advanced Malware and have a rich set of Northbound APIs for it to be integrated into a SIEM system." **The sandboxing capabilities are mentioned in another section of the RFP separately. Therefore, request you to delete this clause from this section in order to prevent overlap of security solutions for ASCL.**	**Clause Amended as:** Please refer to the Corrigendum
299.	Section 5.13.3.3	Internal and Internet Firewalls - Point No. III	79	II	III. Support for access-rules for both IPv4 & IPv6 objects simultaneously with detecting & **blocking malware and sandboxing**, as per the guidelines defined in the section Protection against Advanced Malware and have a rich set of Northbound APIs for it to be integrated into a SIEM system.	No mention of APT and SIEM specs "Anti-APT and SIEM specs suggested in separate excel sheet as enclosed"	**Clause Amended as:** Please refer to the Corrigendum
300.	Section 5.13.3.3	Internal and Internet Firewalls - Point No. III	79	II	III. Support for access-rules for both IPv4 & IPv6 objects simultaneously with detecting & **blocking malware and sandboxing**, as per the guidelines defined in the section Protection against Advanced Malware and have a rich set of Northbound APIs for it to be integrated into a SIEM system.	No mention of APT and SIEM specs "Anti-APT and SIEM specs suggested in separate excel sheet as enclosed"	**Clause Amended as:** Please refer to the Corrigendum
301.	Section 5.13.3.6	NA	80	II	Anti-APT	In todays age of multi-phased and multi-staged complex threats, Anti-APT forms the backbone of any project from a security perspective. We commend the decision to include Anti-APT solution as part of the overall architecture being proposed for ASCL. However, we request you to kindly include some basic minimum technical specifications for the same since they seem to be missing from the RFP currently. We have attached a set of generic technical specifications for the same as Annexure - A (separate sheet in the same excel file)	RFP reference could not be established
302.	Section 5.13.3.6	Anti APT	80	II	Anti-APT	In todays age of multi-phased and multi-staged complex threats, Anti-APT forms the backbone of any project from a security perspective. We commend the decision to include Anti-APT solution as part of the overall architecture being proposed for ASCL. However, we request you to kindly include some basic minimum technical specifications for the same since they seem to be missing from the RFP currently. We have attached a set of generic technical specifications for the same as Annexure - A (separate sheet in the same excel file)	RFP reference could not be established

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
303.	Section 5.13.3.6	Anti APT	80	II	5.13.3.6 Anti-APT Annexure III: Indicative Bill of material: Advanced Malware Sandboxing	As per clause no. 5.13.3.6 Anti-APT of Cyber Security Framework, generic scope of Anti-APT component is mentioned also as per Annexure III indicative Bill of material Advanced Malware Sandboxing as a line item of BoQ is also mentioned but there are no detailed specificaions as per RFP. **Hence please incorporate dedicated specifications as per industry standards of the component.**	**Clarification:** Tender conditions shall prevail
304.	Section 5.13.3.6	Anti-APT - Last Paragraph	81	II	"Advanced Threat Protection should provide a single console showing all suspicious events and attacks across the organization, allowing all data and intelligence about any attack, across endpoint, network, and email, to be shown in one place. Solution shall be capable of working in Inline Blocking mode without depending on other network components like a separate FW, IPS or Web Security Appliance."	Request you to kindly modify the clause to, "Advanced Threat Protection should provide a single console showing all suspicious events and attacks across the organization, allowing all data and intelligence about any attack, across endpoint, network, and email, to be shown in one place." ~~Solution shall be capable of working in Inline Blocking mode without depending on other network components like a separate FW, IPS or Web Security Appliance.~~ **Prevention of any advanced threats is based upon advanced technologies but the inputs that this technology needs to act come from solutions like web security firewall, endpoints and email security gateway. Therefore, in the interest of a more comprehensive Anti-APT solution, we kindly request you to modify the clause as above.**	**Clause Amended as:** Please refer to the Corrigendum
305.	Section 5.13.3.7	Web Application Firewall	81	II	Web Application Firewall	Request you to please clarify if web applicatino firewall is to be proposed as a dedicated appliance and not as a part of any load balancer solution.	**Clarification:** Minimum specifications are mentioned in the Section 5.13.3.7 (Web Application Firewall) in the Vol - II of RFP. The Bidder shall be required to provision WAF as per solution requirement
306.	Section 5.13.3.7	Web Application Firewall - Paragraph No. 4	81	II	The proposed Web Application Security architecture should be able to encrypt the user credentials in real-time to protect the credentials especially password/Aadhar number or any other sensitive parameter as defined by department to protect from keyloggers and credential stealing malware residing in the end user's system browser. The proposed Web Application Security architecture should prevent of theft as well as mitigation of attacks that uses stolen credentials.	Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. This clause is **proprietory and OEM specific**, so request you to **delete** this clause.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
307.	Section 5.13.3.7	NA	81	II	**New feature** - Bidder should supply WAF Module and Load balancer from different OEM to achieve multilayer security and to protect against targeted attack.	This will help to achive multilayer security and protection against surface attack.	**Clarification:** Tender conditions shall prevail
308.	Section 5.13.3.7	Web Application Firewall	81	II	Web Application Firewall	Request you to please clarify if web applicatino firewall is to be proposed as a dedicated appliance and not as a part of any load balancer solution.	**Clarification:** The Bidders shall propose WAF as part of as part of entire solution
309.	Section 5.13.3.6	Anti APT - Last Paragraph	81	II	"Advanced Threat Protection should provide a single console showing all suspicious events and attacks across the organization, allowing all data and intelligence about any attack, across endpoint, network, and email, to be shown in one place. Solution shall be capable of working in Inline Blocking mode without depending on other network components like a separate FW, IPS or Web Security Appliance."	Request you to kindly modify the clause to, "Advanced Threat Protection should provide a single console showing all suspicious events and attacks across the organization, allowing all data and intelligence about any attack, across endpoint, network, and email, to be shown in one place." Prevention of any advanced threats is based upon advanced technologies but the inputs that this technology needs to act come from solutions like web security firewall, endpoints and email security gateway. Therefore, in the interest of a more comprehensive Anti-APT solution, we kindly request you to modify the clause as above.	**Clarification:** Tender conditions shall prevail
310.	Section 5.13.3.7	Integarted Command Control Center - Cyber Security Framework - Web Application Firewall	81	II	The proposed Web Application Security architecture should be able to encrypt the user credentials in real-time to protect the credentials especially password/Aadhar number or any other sensitive parameter as defined by department to protect from keyloggers and credential stealing malware residing in the end user's system browser. The proposed Web Application Security architecture should prevent of theft as well as mitigation of attacks that uses stolen credentials.	Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. This clause is **proprietory and OEM specific**, so request you to **delete** this clause.	**Clarification:** Tender conditions shall prevail
311.	Section 5.13.3.8	Integarted Command Control Center - Cyber Security Framework	81	II	**New feature** - Bidder should supply WAF Module and Load balancer from different OEM to achieve multilayer security and to protect against targeted attack.	This will help to achive multilayer security and protection against surface attack.	**Clarification:** Tender conditions shall prevail
312.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General	99	II	Lens 5-50/9-40mm IR Correct ,CS-mount /built in lens,P-iris	All major OEM's used the **Auto Iris instead of P-Iris** for better performance please amend it. so that all OEM's can participate.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
		Surveillance - Point No. 6					
313.	Section 6.1.4	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 10	99	II	25/30 FPS at all resolutions with Controllable Bit Rate/Bandwidth and Frame Rate. In CBR Priority to be defined for Video quality or frame rate and the bandwidth upper limit shall not exceed the defined limit	As the fix box camera will be used for ANPR application that require 50 fps at given 2MP resolution . So request you to please change it to 50/60 FPS at all resolution .	**Clause Amended as:** Please refer to the Corrigendum
314.	Section 6.1.4	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 11	99	II	The camera shall be able to setup and stream out minimum two (2) stream profiles. It should be possible to set each stream profile independently for compression, resolution, frame rate and quality up to Full camera resolution of Full HD @ 30 FPS	As in Smart city project there are mutliple of application that require a separate video from the CCTV camera (eg. Recording ,LIVE,Remote View,ANPR /RLVD aplication ,any other analytic). So we would like to request you to change the no of stream **minimum to 4 at** 2Mp,25/30 FPS ,H.264 that are indpendently configure as per the uses.	**Clause Amended as:** Please refer to the Corrigendum
315.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 6	99	II	Lens: 5-50/9-40mm IR corrected, CS-mount lens/Built-in lens, P-Iris	**DC-Iris** is majorly used by the majority of the OEMs. Thus, requesting to kindly amend the clause 5-50/9-40mm IR corrected, CS-mount lens/Built-in lens, P-Iris/ DC-Iris	**Clause Amended as:** Please refer to the Corrigendum
316.	Section 6.1.3	Box Camera - Point No. 10	99	II	25/30 FPS at all resolutions with Controllable Bit Rate/ Bandwidth and Frame Rate. In CBR Priority to be defined for Video quality or frame rate and the bandwidth upper limit shall not exceed the defined limit	As the fix box camera will be used for ANPR application that require 50 fps at given 2MP resolution . So request you to please amend it to 50/60 FPS at all resolution	**Clause Amended as:** Please refer to the Corrigendum
317.	Section 6.1.3	Box Camera - Point No. 11	99	II	The camera shall be able to setup and stream out minimum two (2) stream profiles. It should be possible to set each stream profile independently for compression, resolution, frame rate and quality up to Full camera resolution of Full HD @ 30 FPS	As in Smart city project there are mutliple of application that require a separate video from the CCTV camera (eg. Recording, LIVE,Remote View,ANPR /RLVD aplication ,any other analytic). So we would like to request you to amend the number of stream minimum to 4 at 2Mp,25/30 FPS ,H.264 that are indpendently configure as per the uses.	**Clause Amended as:** Please refer to the Corrigendum
318.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 1	99	II	Image Sensor| Minimum 1/2.8" progressive scan RGB CMOS	Kindly remove the RGB CMOS Sensor as it seems to be OEM specific. This clause would restrict the credible & reputed Camera OEMs from participating in this bid.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
319.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 6	99	II	Lens| 5-50/9-40 mm IR corrected, CS-mount/Built-in lens, P-Iris	Kindly include **Auto Iris** as a substitur option to P-Iris as P-Iris seems to be OEM specific. This clause would restrict the credible & reputed Camera OEMs from participating in this bid.	**Clause Amended as:** Please refer to the Corrigendum
320.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 6	99	II	6. Lens 5-50/9-40mm IR Corrected, CS Mount lens/built in lens P-iris	P-iris restricted to single OEM as per detailed specs given in DPR, Request smart to accept **DC IRIS**.	**Clause Amended as:** Please refer to the Corrigendum
321.	Section 6.1.3	Fixed Box Outdoor Camera: Face recognition, ANPR and General Surveillance- Point No. 6	99	II	Lens: 5-50/9-40mm IR corrected, CS-mount lens/Built-in lens, P-Iris	**DC-Iris** is majorly used by the majority of the OEMs. Thus, requesting to kindly amend the clause 5-50/9-40mm IR corrected, CS-mount lens/Built-in lens, P-Iris/ DC-Iris	**Clause Amended as:** Please refer to the Corrigendum
322.	Section 6.1.3	Bullet Indoor Camera- Face Recognition - Point No. 6	99	II	Lens 5-50/9-40mm IR Correct ,CS-mount /built in lens,P-iris	All major OEM's used the **Auto Iris** instead of P-Iris for better performance please amend it. so that all OEM's can participate.	**Clause Amended as:** Please refer to the Corrigendum
323.	Section 6.1.3	**Fixedbox Outdoor Camera - Face Recognization, ANPR and General Surveillance - Point No. 6**	99	II	Lens 5-50/9-40mm IR Correct ,CS-mount /built in lens,P-iris	All major OEM's used the **Auto Iris** instead of P-Iris for better performance please amend it. so that all OEM's can participate.	**Clause Amended as:** Please refer to the Corrigendum
324.	Section 6.1.4	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 14	100	II	Wide Dynamic=90 dB or better Range	As WDR help camera to work in challenging light condition ,so would like to request to keep WDR value at least 120 db for to get the proper picture in challenging light condition .	**Clause Amended as:** Please refer to the Corrigendum
325.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and	100	II	Privacy masks-minimum 4 configurable 3D zones	Request you to change this clause minimum 4 privacy masks /Configurable 3D zone, or remove configurable 3D zones, it is particular to limted to OEM **Justification**:-	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
		General Surveillance - Point No. 16				Kindly accept & Consider to remove or amend it, his change does not affect the functionality of the system. This is availble with limited & Specific OEM . So request pls make it standard as per industry standard and accept .Accepting this clause will allow maximum participation from the leading camera's OEM's.	the key solution requirements and supported by many OEMs
326.	Section 6.1.3	Box Camera - Point No. 14	100	II	Wide Dynamic=90 dB or better Range	As WDR help camera to work in challenging light condition ,so would like to request to keep WDR value at least 120 db for to get the proper picture in challenging light condition .	**Clause Amended as:** Please refer to the Corrigendum
327.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 14	100	II	Wide Dynamic Range|90 dB or better	As per industry Standard kindly change it to True Wide Dynamic Range which is 120dB or better. This would improve the uniformity in the captured scene	**Clause Amended as:** Please refer to the Corrigendum
328.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 22	100	II	Remote Focus|Ability to fine tune focus of camera remotely	The specifications mentions the Box camera which has a manual Verifocal Lens which is manually adjusted for zoom in and zoom out. However, this clause contradicts the basic feature of Box camera and this feature is available in Bullet camera. Or if this feature is avaiable with any OEM that would make it OEM specific only. Since we request you to kindly remove this clause.	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs
329.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 28	100	II	29.Enclosure | IP66/NEMA 4X casing made of Polycarbonate/Aluminium, IK 08 or above	The box camera is mounted outside in extreme weather and rugged environmental conditions. IP66 or IK08 are very basic protection ratings level and the same shall be changed to the updated and latest IP67 & IK10. Also kindly make IP67 & Ik 10 Mandatory and not optional. These features come by default at no additional cost hence please incorporate the same for the best interest of the project	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
330.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 33	100	II	33: Certification| UL, CE, FCC, IEC	**Kindly Remove the IEC or make it optional.** UL, CE and FCC shall be mandatory as these certifications covers all the parameteres of functional testing and environmental parameters. Asking IEC specifically would deduplicate the purpose of UL,CE and FCC.	**Clarification:** Tender conditions shall prevail
331.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and	100	II	21. Edge storage SD Card slot with minimum 64GB CLASS 10 SD CARD AND EXPANSION 128GB	Request smart city to increase the memory card slot size, So Camera shall be able to record video for 20 days at 1080p@25fps	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
		General Surveillance - Point No. 21				-Built in SD card slot EXPANSION up to 1Tb with Class 10 speed.	may provide additional feature as per the solution requirement.
332.	Section 6.1.3	Fixed Box Outdoor Camera: Face recognition, ANPR and General Surveillance- Point No. 22	100	II	Remote Focus: Ability to fine tune focus of camera remotely	Box camera comes with external lens , Remote focus comes with motorized lens in bullet /dome cameras instead of Box cameras. Request you kindly amend it from remote focus to manual focus .	**Clarification:** Tender conditions shall prevail
333.	Section 6.1.3	Fixed Box Outdoor Camera: Face recognition, ANPR and General Surveillance- Point No. 33	100	II	Certification: UL, CE, FCC, IEC	IEC,CE and EN certificate are equivalent ,which are European standard certificates,declares that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation . UL -Underwriters Laboratories (UL) performs safety testing and certification (listing), assuring that products meet applicable codes. FCC -The FCC Declaration of Conformity or the FCC label or the FCC mark is a certification mark employed on electronic products including CCTVs manufactured or sold in the United States which certifies that the RF / electromagnetic interference (EMI) from the device is under limits approved by the Federal Communications Commission, which is globally accepted Thus request you to amend the clause to **UL, FCC and CE/IEC**	**Clarification:** Tender conditions shall prevail
334.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 38	101	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection level. Hence request you to remove the clause as requested	**Clarification:** Tender conditions shall prevail
335.	Section 6.1.4	Bullet Indoor Camera - Face Recognition - Point No. 6	101	II	Lens 3-9mm, IR corrected, P-iris, Megapixel lens with remote zoom and focus	All major OEM's used the **Auto Iris** instead of P-Iris for better performance please amend it. so that all OEM's can participate.	**Clause Amended as:** Please refer to the Corrigendum
336.	Section 6.1.4	Bullet Indoor Camera - Face Recognition - Point No. 10	101	II	Frame Rate and Bit rate =Up to 25/30 FPS at all resolutions with Controllable Bit Rate/ Bandwidth and Frame Rate. In CBR Priority to be defined for Video quality or frame rate and the bandwidth upper limit shall not exceed the defined limit	As the fix Bullet camera will be used at railway station ,Bus stand where it need to capture the fast moving vechical that application require **50 fps** at given 2MP resolution . So request you to please change it to **50/60 FPS** at all resolution .	**Clause Amended as:** Please refer to the Corrigendum
337.	Section 6.1.4	Bullet Indoor Camera - Face	101	II	The camera shall be able to setup and stream out minimum two (2) stream profiles. It should	As in Smart city project there are mutliple of application that require a separate video stream from the CCTV camera (eg. Recording ,LIVE,Remote View,ANPR	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
		Recognition - Point No. 11			be possible to set each stream profile independently for compression,	/RLVD aplication ,any other analytic). So we would like to request you to change the **no of stream minimum to 4** at 2Mp,25/30 FPS ,H.264 that are indpendently configure as per the uses.	
338.	Section 6.1.4	Bullet Camera- Point No. 10	101	II	Frame Rate and Bit rate =Up to 25/30 FPS at all resolutions with Controllable Bit Rate/ Bandwidth and Frame Rate. In CBR Priority to be defined for Video quality or frame rate and the bandwidth upper limit shall not exceed the defined limit	As the fix Bullet camera will be used at railway station ,Bus stand where it need to capture the fast moving vechical that application **require 50 fps** at given 2MP resolution . So request you to please change it to **50/60 FPS** at all resolution .	**Clause Amended as:** Please refer to the Corrigendum
339.	Section 6.1.4	Bullet Camera- Point No. 11	101	II	The camera shall be able to setup and stream out minimum two (2) stream profiles. It should be possible to set each stream profile independently for compression,	As in Smart city project there are mutliple of application that require a separate video stream from the CCTV camera (eg. Recording ,LIVE,Remote View,ANPR /RLVD aplication ,any other analytic). So we would like to request you to change the **no of stream minimum to 4 at** 2Mp,25/30 FPS ,H.264 that are indpendently configure as per the uses.	**Clause Amended as:** Please refer to the Corrigendum
340.	Section 6.1.3	Fixed Box Outdoor Camera - Face recognition, ANPR and General Surveillance - Point No. 38	101	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection level. Hence request you to remove the clause as requested	**Clarification:** Tender conditions shall prevail
341.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No 1	101	II	1: Image Sensor|Minimum 1/3" progressive scan RGB CMOS or better	Kindly remove the RGB CMOS Sensor as it seems to be OEM specific. This clause would restrict the credible & reputed Camera OEMs from participating in this bid.	**Clause Amended as:** Please refer to the Corrigendum
342.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No 6	101	II	6: Lens | 3 - 9 mm, IR corrected, P-Iris, Megapixel Lens with remote zoom and focus	Kindly remove P-iris or add **Auto IRIS** as a substitute optional to it. Secondly the Lens size should be 2.8mm to 12mm for better clarity and distance	**Clause Amended as:** Please refer to the Corrigendum
343.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No 4	101	II	4: `Minimum Illumination |Colour: 0.3 Lux @ 30 IRE F1.4; 0 Lux with Built in or External IR, IR Range 30 Meters	The IR Illuminator shall be **inbuilt** as this is one of the strong redeeming quality of a Bullet Camera. Also the IR Range shall be **50 Meters or better.**	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
344.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No 10	101	II	10: Frame Rate and Bit Rate|Up to 25/30 FPS at all resolutions with Controllable Bit Rate/ Bandwidth and Frame Rate. In CBR Priority to be defined for Video quality or frame rate and the bandwidth upper limit shall not exceed the defined limit	The Frame per second for Face recognition camera shall be 60FPS as to capture the frames in case the subject is in fast motion.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
345.	Section 6.1.4	Bullet Indoor Camera - Point No. 6	101	II	Lens 3-9mm, IR Corrected, P-iris, Megapixel lens with remote zoom and focus	P-iris restricted to single OEM as per detailed specs given in DPR, Request smart to accept **DC IRIS.**	**Clause Amended as:** Please refer to the Corrigendum
346.	Section 6.1.4	Bullet Indoor camera-Face Recognition - Point No. 6	101	II	Lens: 3-9mm, IR corrected, P iris	**DC-Iris** is majorly used by the majority of the OEMs. Thus, requesting to kindly amend the clause 3-9mm, IR corrected,P-Iris/ DC-Iris	**Clause Amended as:** Please refer to the Corrigendum
347.	Section 6.1,4	Fixed Box outdoor Camera - Point No. 6	101	II	Lens 3-9mm, IR corrected, P-iris, Megapixel lens with remote zoom and focus	All major OEM's used the **Auto Iris** instead of P-Iris for better performance please amend it. so that all OEM's can participate.	**Clause Amended as:** Please refer to the Corrigendum
348.	Section 6.1.3	**Bullet Indoor Camera - Face Recognization - Point No. 6**	101	II	Lens 3-9mm, IR corrected, P-iris, Megapixel lens with remote zoom and focus	All major OEM's used the **Auto Iris** instead of P-Iris for better performance please amend it. so that all OEM's can participate.	**Clause Amended as:** Please refer to the Corrigendum
349.	Section 6.1.4	Bullet Indoor Camera - Face Recognition - Point No. 20	102	II	Protocols:IPv4/v6, HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP SMTP, Bonjour, UPnP, SNMPv1/v2c/v3 (MIB - II), DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP,SSH	IPv4, IPv6, IGMP,ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, SSL, TLS Clarification: Bonjour is for apple dvelices where UPnP is windows system. Hence request you to amed the clause the as requested.	**Clarification:** Tender conditions shall prevail
350.	Section 6.1.4	Bullet Indoor Camera - Face Recognition - Point No. 14	102	II	Wide Dynamic Range=90 db or better	As WDR help camera to work in challenging light condition ,so would like to request to keep WDR value at least 120 db for to get the proper picture in challenging light condition .	**Clause Amended as:** Please refer to the Corrigendum
351.	Section 6.1.4	Bullet Indoor Camera - Face Recognition - Point No. 20	102	II	IPV4/V6,HTTP,HTTPS,SSL/TLS,QOS layer 3 differServ, FTP, SMTP, Bonjour,UPnP,SNMPv1/v2/v3,(MIB-II),DNS,NTP,RTSP,RTP,TCP,UDP,IGMP,RTCP,ICMP,DHCP,ARP,SSH	Request you to accept to remove this clause Bonjour,RTCP,ICMP & SSH protocal and it is proprietary with specifc one OEM **Justification**:- Kindly accept & Consider to remove the BONJOUR ,RTCP,ICMP & SSH Protocol this change does not affect the functionality of the system. This is availble with limited & Specific OEM .So request pls make it standard as per industry standard and accept .Accepting this clause will allow maximum participation from the leading camera's OEM's.	**Clause Amended as:** Please refer to the Corrigendum
352.	Section 6.1.4	Bullet Indoor camera-Face Recognition - Point No. 27	102	II	Temperature,	Tempreture is not a general feature comes in Normal cameras with all brands. It required integration of sensors to do same job . It seems brand specif feature . Requesting you kindly remove it . So other brand can compete.	**Clarification:** Tender conditions shall prevail
353.	Section 6.1.4	Bullet Indoor camera-Face Recognition - Point No. 31	102	II	Embedded application: The camera shall provide a platform allowing the upload of third party applications into the camera	Camera support interface to integrate third party application instead of uploading third party application into camera. Camera doesn't provide storage to upload	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						3rd party application into camera . Requesting you kindly remove it .	
354.	Section 6.1.4	Bullet Indoor camera-Face Recognition - Point No. 29	102	II	Certification: UL, CE, FCC, IEC	IEC,CE and EN certificate are equivalent ,which are European standard certificates,declares that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation . UL -Underwriters Laboratories (UL) performs safety testing and certification (listing), assuring that products meet applicable codes. FCC -The FCC Declaration of Conformity or the FCC label or the FCC mark is a certification mark employed on electronic products including CCTVs manufactured or sold in the United States which certifies that the RF / electromagnetic interference (EMI) from the device is under limits approved by the Federal Communications Commission, which is globally accepted Thus request you to ammend the clause to UL, FCC and CE/IEC	**Clarification:** Tender conditions shall prevail
355.	Section 6.1.4	Bullet Camera,Sl. NO. 14	102	II	Wide Dynamic Range=90 db or better	As WDR help camera to work in challenging light condition ,so would like to request to keep WDR value at least 120 db for to get the proper picture in challenging light condition .	**Clause Amended as:** Please refer to the Corrigendum
356.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No. 20	102	II	Protocols:IPv4/v6, HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP SMTP, Bonjour, UPnP, SNMPv1/v2c/v3 (MIB - II), DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP,SSH	IPv4, IPv6, IGMP,ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, SSL, TLS Clarification: Bonjour is for apple dvelices where UPnP is windows system. Hence request you to amed the clause the as requested.	**Clarification:** Tender conditions shall prevail
357.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No 14	102	II	14: Wide Dynamic Range| 90 dB or better	As per industry Standard kindly change it to True Wide Dynamic Range which is **120dB** or better. This would improve the uniformity in the captured scene	**Clause Amended as:** Please refer to the Corrigendum
358.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No 16	102	II	16.IR | 30 Meter (Built in or External) Optimized IR with adjustable intensity and angle	The IR Illuminator Must be inbuilt as this is one of the strong redeeming quality of a Bullet Camera.The inbuilt IR has a better synchronization with the sensor during Night Mode to adjust the IR light accordingly. Also the IR Range shall be 50 Meters or better.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
359.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No 25	102	II	25.Enclosure|IP66 /NEMA-4X-rated casing Polycarbonate/Aluminium, IK 08 or above	IP66 or IK08 are very basic protection ratings level and the same shall be changed to the updated and latest IP67 & IK10. Also kindly make IP67 & Ik 10 Mandatory and not optional.These features come by default at no additional cost hence please incorporate the same for the best interest of the project	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
360.	Section 6.1.4	Bullet Indoor Camera - Face	102	II	29. Certification |UL, CE, FCC, IEC	Kindly Remove the IEC or make it optional. UL, CE and FCC shall be mandatory as these certifications covers	**Clarification:**

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
		recognition - Point No 29				all the parameteres of functional testing and environmental parameters. Asking IEC specifically would deduplicate the purpose of UL,CE and FCC.	Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
361.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No 31	102	II	31. Embedded Applications|The camera shall provide a platform allowing the upload of third party applications into the camera	Kindly confirm the third party embeded applications which would be uploaded on the cameras here. Kindly remove this clause as it is OEM specific and would restrict other reputed Camera OEM from participating in this Tender.	**Clause Amended as:** Please refer to the Corrigendum
362.	Section 6.1.4	Bullet Indoor Camera - Point No. 14	102	II	14. Wide dynamic range 90 Db or better	Request smart city to ammend the WDR to 85Db or better as per IEC 62676-PART5	**Clause Amended as:** Please refer to the Corrigendum
363.	Section 6.1.4	Bullet Indoor Camera - Point No. 19	102	II	19. Edge storage SD Card slot with minimum 64GB CLASS 10 SD CARD AND EXPANSION 128GB	Request smart city to increase the memory card slot size, So Camera shall be able to record video for 20 days at 1080p@25fps -Built in SD card slot **EXPANSION up to 1Tb** with Class 10 speed.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
364.	Section 6.1.4	Bullet Indoor camera-Face Recognition - Point No. 27	102	II	Temperature,	Temperature is not a general feature comes in Normal cameras with all brands. It required integration of sensors to do same job . It seems brand specify feature . Requesting you kindly remove it . So other brand can compete.	**Clarification:** Tender conditions shall prevail
365.	Section 6.1.4	Bullet Indoor camera-Face Recognition- Point No. 31	102	II	Embedded application: The camera shall provide a platform allowing the upload of third party applications into the camera	Camera support interface to integrate third party application instead of uploading third party application into camera. Camera doesn't provide storage to upload 3rd party application into camera . Requesting you kindly remove it .	**Clause Amended as:** Please refer to the Corrigendum
366.	Section 6.1.4	Bullet Indoor camera-Face Recognition - Point No. 29	102	II	Certification: UL, CE, FCC, IEC	IEC,CE and EN certificate are equivalent ,which are European standard certificates,declares that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation . UL -Underwriters Laboratories (UL) performs safety testing and certification (listing), assuring that products meet applicable codes. FCC -The FCC Declaration of Conformity or the FCC label or the FCC mark is a certification mark employed on electronic products including CCTVs manufactured or sold in the United States which certifies that the RF / electromagnetic interference (EMI) from the device is under limits approved by the Federal Communications Commission, which is globally accepted Thus request you to amend the clause to **UL, FCC and CE/IEC**	**Clarification:** Tender conditions shall prevail
367.	Section 6.1.4	Bullet Indoor Camera- Face	102	II	Embedded Applications: The Camera shall provide a platform allowing the upload of third party application into the camera	This is a property call and biased with the single OEM. For Healthy competion kindly remove this clause from	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
		Recognition - Point No. 31				the tender so that other OEM can also participate in this.	
368.	Section 6.1.4	Bullet Indoor camera-Face Recognition - Point No. 35	103	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection level. Hence request you to remove the clause as requested	**Clarification:** Tender conditions shall prevail
369.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 5	103	II	Lens=F= 2.8–8 mm,remote focus, remote zoom	As the standar size of Multisensor lens in the market is with 3-6 mm lense ,We would like to request you to Please change to:F=3-6mm or better ,remote focus ,remote zoom. With current specifications only certain brands can comply.	**Clause Amended as:** Please refer to the Corrigendum
370.	Section 6.1.5	361 Degree Panoramic Multi-Sensor Camera - Point No. 11	103	II	Video streams: The camera shall be able to setup and stream out minimum eight (4 x 2 = 8) stream profiles. Each stream profile can have its own compression, resolution, frame rate and quality independently up to Full HD @ 30 FPS	Multisensor camera comes with dual/triple streams instead of 4x2 =8 streams. Secondry stream used fro mobile viewing . Request you kindly change it from 4x2 =8 streams to Dual/triple streams and secodry stream as per remote viewing resolution	**Clause Amended as:** Please refer to the Corrigendum
371.	Section 6.1.5	362 Degree Panoramic Multi-Sensor Camera - Point No. 14	103	II	Intelligent capabilities: Virtual Input,Built in pixel counter	Region of Interest (ROI) Encoding has been developed to provide the highest image quality on the areas or a scene or objects of most interest while reducing the quality level in uninteresting areas to provide the highest quality/lowest bandwidth results. ROI is similar to Pixel counter, pixel counter is brand centric. Thus, requesting you to ammend the clause toIntelligent capabilities: Region of Interest Please help to clarify the need and the use of virtual input.	**Clause Amended as:** Please refer to the Corrigendum
372.	Section 6.1.5	363 Degree Panoramic Multi-Sensor Camera - Point No. 1	103	II	4 X 1/2.8" progressive scan CMOS or better	4 x 1/**1.8"** Progressive Scan CMOS or better Clarification: Lower the sensor size can able to get the detailed elements in a picture. Hence request you to amend the spec as requested.	**Clause Amended as:** Please refer to the Corrigendum
373.	Section 6.1.5	363 Degree Panoramic Multi-Sensor Camera - Point No. 5	103	II	Lens:F= 2.8–8 mm, remote focus, remote zoom	Lens:F= **2.2mm or better** Clarification: The given spec is from particular brand, so no other camera brand can participate on the tender, this will increase the budget of the proposal, where other leading manufacturer has fixed lens in Multisensor camera. hence request you to amed the clause as requested.	**Clause Amended as:** Please refer to the Corrigendum
374.	Section 6.1.5	363 Degree Panoramic Multi-Sensor Camera - Point No. 6	103	II	Field of View: Remotely Adjustable	Please remove Clarification: As per above request this clause need to be removed	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
375.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 5	103	II	Lens=F= 2.8–8 mm,remote focus, remote zoom	As the standar size of Multisensor lens in the market is with 3-6 mm lense ,We would like to request you to please amend to:F=3-6mm or better ,remote focus ,remote zoom. With current specifications only certain brands can comply.	**Clause Amended as:** Please refer to the Corrigendum
376.	Section 6.1.4	Bullet Indoor Camera - Face recognition - Point No. 35	103	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection level. Hence request you to remove the clause as requested	**Clarification:** Tender conditions shall prevail
377.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 1	103	II	4 X 1/2.8" progressive scan CMOS or better	4 x 1**/1.8**" Progressive Scan CMOS or better Clarification: Lower the sensor size can able to get the detailed elements in a picture. Hence request you to amend the spec as requested.	**Clause Amended as:** Please refer to the Corrigendum
378.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 5	103	II	Lens:F= 2.8–8 mm, remote focus, remote zoom	Lens:F= **2.2mm or better** Clarification: The given spec is from particular brand, so no other camera brand can participate on the tender, this will increase the budget of the proposal, where other leading manufacturer has fixed lens in Multisensor camera. hence request you to amed the clause as requested.	**Clause Amended as:** Please refer to the Corrigendum
379.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 6	103	II	Field of View: Remotely Adjustable	Please remove Clarification: As per above request this clause need to be removed	**Clause Amended as:** Please refer to the Corrigendum
380.	Section 6.1.5	360° Panoramic Multi Sensor Camera - Point No. 1	103	II	1. Image Sensor 4 x 1/2.8" Progressive scan CMOS or better	Request smart city to accepi single panormaic view lens Single lens will also give 12MP Picture with panoramic view. In case of multi lens if any of the lens is not in working stage then camera will not be able to give full 360 deg panoramic view 2 MP Progressive scan RGB CMOS 4 x 1/2.8" **or 12MP(Single lens) 1/2.8" Progressive scan RGB CMOS better**	**Clause Amended as:** Please refer to the Corrigendum
381.	Section 6.1.5	360° Panoramic Multi Sensor Camera - Point No. 5	103	II	5. Lens F= 2.8-8mm, remote focus and remote zoom	kindly accept the fixed lens size from 1.6mm, as in panoramic case less the lens size more the scene details with more horizontal view F= 2.8-8mm, remote focus and remote zoom or **Fixed lens 2.0mm or better suport total sensr pixel 8MP**	**Clause Amended as:** Please refer to the Corrigendum
382.	Section 6.1.5	360 Degree Panormic Multi sensor Camera - Point No. 11	103	II	Video streams: The camera shall be able to setup and stream out minimum eight (4 x 2 = 8) stream profiles. Each stream profile can have its own compression, resolution,	Multisensor camera comes with **dual/triple streams** instead of 4x2 =8 streams. Secondry stream used fro mobile viewing . Request you kindly **change it from**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					frame rate and quality independently up to Full HD @ 30 FPS	**4x2 =8 streams to Dual/triple** streams and secodry stream as per remote viewing resolution	
383.	Section 6.1.6	360 Degree Panormic Multi sensor Camera - Point No. 14	103	II	Intelligent capabilities: Virtual Input,Built in pixel counter	Region of Interest (ROI) Encoding has been developed to provide the highest image quality on the areas or a scene or objects of most interest while reducing the quality level in uninteresting areas to provide the highest quality/lowest bandwidth results. ROI is similar to Pixel counter, pixel counter is brand centric. Thus, requesting you to amend the clause toIntelligent capabilities: Region of Interest Please help to clarify the need and the use of virtual input.	**Clause Amended as:** Please refer to the Corrigendum
384.	Section 6.1.5	360 Degree Panaromic Multi-Sensor Camera - Point No. 1	103	II	4*1/2.8" progressive scan CMOS or Better	If you will get the same output from the single sensor (Fish Eye lens) camera then why you need multiple sensor camera. Kindly change the point to Multiple sensor/Single Sensor	**Clause Amended as:** Please refer to the Corrigendum
385.	Section 6.1.5	360 Degree Panaromic Multi-Sensor Camera- Point No. 5	103	II	Lens: F=2.8~8mm, remote focus, remote Zoom	This is a proprietary call and specification is biased with the single OEM. For Healthy competion kindly remove this clause from the tender so that other OEM can also participate in this.	**Clause Amended as:** Please refer to the Corrigendum
386.	Section 6.1.5	360 Degree Panaromic Multi-Sensor Camera- Point No. 11	103	II	Video Streams: The Camera shall be able to setup and stream out minimum eight (4*2=8) stream profile. Each streams profile can have its own compression, resolution, frame rate and quality independently up to full HD @ 30 FPS	If you will get the same output from the single sensor(Fish Eye lens) camera then why you need multiple sensor camera. Kindly change the point to Multiple sensor/Single Sensor	**Clause Amended as:** Please refer to the Corrigendum
387.	Section 6.1.5	360 Degree Panaromic Multi-Sensor Camera - Point No. 14	103	II	Intelligent Capabilites: Live Stream Accessed, Motion Detection, Network, Active Tampering, Edge storage Disruption, 3rd Party Analytics, Manual Trigger, Virtual Input, Built in pixel Counter	Pixel Counter is also used by single OEM so please remove this from the specification so that Other OEM's can also participate eassily in the tender.	**Clause Amended as:** Please refer to the Corrigendum
388.	Section 6.1.5	360 Degree Panaromic Multi-Sensor Camera- Point No. 18	103	II	Embedded Applications: The Camera Shall provide a platform allowing the upload of third party applications into the camera	This is a proprietary call and specification is biased with the single OEM. For Healthy competion kindly remove this clause from the tender so that other OEM can also participate in this.	**Clause Amended as:** Please refer to the Corrigendum
389.	Section 6.1.5	360 Degree Panaromic Multi-Sensor Camera- Point No. 19	103	II	IPv4/v6, HTTP, HTTPs b, SSL/TLS, Qos layer 3 Diffserv, FTP, CIFS/SMB, Bonjour, UPnP, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	HTTP & Socks both establishes a TCP connection to server on behalf of the client. However unlike the sococks proxy, HTTP proxy HTTP proxy does understand and interpret the network traffic that passes between the client and downstream server, Namely As HTTP Protocol. So Sockos protocol is not required. Kindly remove it from the specifications. Bonjour is a network discovery technology developed by the Apple. So it is not required in CCTV other discovery technologies are already used by our camera. SO please change or remove from the specifications.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
390.	Section 6.1.5	363 Degree Panoramic Multi-Sensor Camera - Point No. 19	104	II	Protocols:IPv4/v6, HTTP, HTTPS b, SSL/TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP,SNMPv1/v2c/v3 (MIB - II), DNS, DynDNS, NTP, RTSP, RTP,TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP Clarification: Bonjour is for apple dvelices where UPnP is windows system. Hence request you to amed the clause the as requested.	**Clarification:** Tender conditions shall prevail
391.	Section 6.1.5	363 Degree Panoramic Multi-Sensor Camera - Point No.19	104	II	Protocols: SOCKS	Socket Secure (SOCKS) is an Internet protocol that exchanges network packets between a client and server through a proxy server which is normally not required in the camera, also this protocol is a brand centric, thus, requesting to remove SOCKS protocol.	**Clause Amended as:** Please refer to the Corrigendum
392.	Section 6.1.5	364 Degree Panoramic Multi-Sensor Camera - Point No. 18	104	II	Embedded application: The camera shall provide a platform allowing the upload of third party applications into the camera	Camera support interface to integrate third party application instead of uploading third party application into camera. Camera doesn't provide storage to upload 3rd party application into camera . Requesting you kindly remove it .	**Clause Amended as:** Please refer to the Corrigendum
393.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 30	104	II	Certification: UL, CE, FCC, IEC, EN	IEC,CE and EN certificate are equivalent ,which are European standard certificates,declares that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation . UL -Underwriters Laboratories (UL) performs safety testing and certification (listing), assuring that products meet applicable codes. FCC -The FCC Declaration of Conformity or the FCC label or the FCC mark is a certification mark employed on electronic products including CCTVs manufactured or sold in the United States which certifies that the RF / electromagnetic interference (EMI) from the device is under limits approved by the Federal Communications Commission, which is globally accepted Thus request you to ammend the clause to UL, FCC and CE/EN/IEC	**Clause Amended as:** Please refer to the Corrigendum
394.	Section 6.1.5	363 Degree Panoramic Multi-Sensor Camera - Point No. 31	104	II	Application Programmers Interface: The camera shall be fully supported by an open and published using web service RESTAPI (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications	Application Programmers Interface: The camera shall be fully supported by an open and published using web service API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications Clarification: RESTAPI, SUN API are from particular brands. API is common for all. Hence request you to amned the as spec as requested	**Clause Amended as:** Please refer to the Corrigendum
395.	Section 6.1.5	363 Degree Panoramic Multi-Sensor Camera - Point No. 35	104	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						level. Hence request you to remove the clause as requested	
396.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 25	104	II	IR illumination=External/Internal IR illumination up to distance of **30 meters from camera**	As the standar size of Multisensor lens in the market is with 3-6 mm lense and the compatible IR range with this lens is **15 meter** . So we would like to request you to please change IR illumination up to 15 mtr or better. With current specifications only certain brands can comply	**Clause Amended as:** Please refer to the Corrigendum
397.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 19	104	II	IPv4/v6, HTTP, HTTPSa , SSL/TLSa , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, SFTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	Request you to accept to remove this clause Bonjour,RTCP,ICMP, SSH & SOCKS protocal and it is proprietary with specifc one OEM **Justification**:- Kindly accept, to remove the BONJOUR ,RTCP,ICMP,SSH & SOCKS Protocol, this change does not affect the functionality of the system. This is availble with limited & Specific OEM . So request pls make it standard as per industry standard and accept .Accepting this clause will allow maximum participation from the leading camera's OEM's.	**Clause Amended as:** Please refer to the Corrigendum
398.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera SI.No. 25	104	II	IR illumination=External/Internal IR illumination up to distance of**30 meters from camera**	As the standard size of Multisensor lens in the market is with 3-6 mm lense and the compatible IR range with this lens is **15 meter .** So we would like to request you to please amend IR illumination up to 15 mtr or better. With current specifications only certain brands can comply	**Clause Amended as:** Please refer to the Corrigendum
399.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 19	104	II	Protocols:IPv4/v6, HTTP, HTTPS b, SSL/TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP,SNMPv1/v2c/v3 (MIB - II), DNS, DynDNS, NTP, RTSP, RTP,TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, APR, SNMP Clarification: Bonjour is for apple dvelices where UPnP is windows system. Hence request you to amed the clause the as requested.	**Clarification:** Tender conditions shall prevail
400.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 31	104	II	Application Programmers Interface: The camera shall be fully supported by an open and published using web service RESTAPI (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications	Application Programmers Interface: The camera shall be fully supported by an open and published using web service API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications Clarification: RESTAPI, SUN API are from particular brands. API is common for all. Hence request you to amned the as spec as requested	**Clarification:** Tender conditions shall prevail
401.	Section 6.1.5	360 Degree Panoramic Multi-Sensor Camera - Point No. 35	104	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						level. Hence request you to remove the clause as requested	
402.	Section 6.1.5	360° Panoramic Multi Sensor Camera - Point No. 25	104	II	25. IR Illumination external/ inetrnal illuminator 30 meters	Request smart city to remove this clause as 360 deg paniramic camera not suitble for city outdoor applications.	**Clause Amended as:** Please refer to the Corrigendum
403.	Section 6.1.5	360° Panoramic Multi Sensor Camera - Point No. 16	104	II	16. Edge storage SD Card slot with minimum 64GB CLASS 10 SD CARD AND **EXPANSION 128GB**	Request smart city to increase the memory card slot size, So Camera shall be able to record video for 20 days at 1080p@25fps -Built in SD card slot **EXPANSION up to 1Tb** with Class 10 speed.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
404.	Section 6.1.7	360 Degree Panormic Multi sensor Camera - Point No. 19	104	II	Protocols: SOCKS	Socket Secure (SOCKS) is an Internet protocol that exchanges network packets between a client and server through a proxy server which is normally not required in the camera, also this protocol is a brand centric, thus, requesting to remove SOCKS protocol.	**Clause Amended as:** Please refer to the Corrigendum
405.	Section 6.1.8	360 Degree Panormic Multi sensor Camera - Point No. 18	104	II	Embedded application: The camera shall provide a platform allowing the upload of third party applications into the camera	Camera support interface to integrate third party application instead of uploading third party application into camera. Camera doesn't provide storage to upload 3rd party application into camera . Requesting you kindly remove it .	**Clause Amended as:** Please refer to the Corrigendum
406.	Section 6.1.5	360 Degree Panormic Multi sensor Camera - Point No. 30	104	II	Certification: UL, CE, FCC, IEC, EN	IEC,CE and EN certificate are equivalent ,which are European standard certificates,declares that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation . UL -Underwriters Laboratories (UL) performs safety testing and certification (listing), assuring that products meet applicable codes. FCC -The FCC Declaration of Conformity or the FCC label or the FCC mark is a certification mark employed on electronic products including CCTVs manufactured or sold in the United States which certifies that the RF / electromagnetic interference (EMI) from the device is under limits approved by the Federal Communications Commission, which is globally accepted Thus request you to amend the clause to **UL, FCC and CE/EN/IEC**	**Clause Amended as:** Please refer to the Corrigendum
407.	Section 6.1.6	PTZ Camera - Point No. 5	105	II	Lens specs:Auto-focus, 4.4 –120mm (corresponding to 25x) or better	Lens specs:Auto-focus, 4.5 –135mm (**corresponding to 30x**) or better Clarification: Given spec is not. Asked focal length are equal to 27X, also more focal length can able to cover more deistance. Hence request you to add the specification as requested	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
408.	Section 6.1.6	PTZ Camera - Point No. 8	105	II	PTZ: Pan: 0 to 360° endless/continuous, **0.2 to 300°/s(auto)**, 0.2 to 100°/s (Manual) Tilt: 90°, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual) 20x optical zoom and 10x digital zoom	The PTZ is recommended to be with in-built IR. Thus, the PTZ camera with IR is not recommended to have such high Pan and Tilt speed. This might create shadow image when performing Pan or Tilt operation as such speed. Thus, recommended Pan speed for the IR PTZ should be - **Pan Speed (auto)- 240°/s**	**Clause Amended as:** Please refer to the Corrigendum
409.	Section 6.1.6	PTZ Camera - Point No. 2	105	II	Image Sensor with WDR=True WDR 90 db or better, 1/2.8' Progressive CMOS Sensor or better with minimum 2 MP resolution	As WDR help camera to work in challenging light condition ,so would like to request to keep WDR value at least **120 db** for to get the proper picture in challenging light condition .	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
410.	Section 6.1.6	PTZ Camera - Point No. 4	105	II	Frame Rate =Shall support up to 25/30 fps	As the PTZ camera will be used at railway station ,Bus stand where it need to capture the fast moving vechical that application require **50 fps** at given 2MP resolution . So request you to please change it to 50/60 FPS at all resolution .	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
411.	Section 6.1.6	PTZ Camera - Point No. 8	105	II	PTZ=Pan: 0 to 360° endless/continuous, 0.2 to 300°/s (auto), 0.2 to 100°/s (Manual) Tilt: 90°, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual) 20x optical zoom and 10x digital zoom	As to capture and trace the Fast moving obejct in the field a high Pan and tilt speed is require so we would like to request to Please change to:Pan: 0 to 360° endless/continuous, **0.2 to 500°/s (auto),0.2 to 500°/s (Manual)** Tilt:: **+20 to -90°**, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual) **30x** optical zoom and 10x digital zoom	**Clause Amended as:** Please refer to the Corrigendum
412.	Section 6.1.6	PTZ Camera - Point No. 9	105	II	General =The camera shall be able to setup and stream out minimum two (2) stream profiles. Each stream profile can have its own compression, resolution, frame rate and quality independently	As in Smart city project there are mutliple of application that require a separate video stream from the CCTV camera (eg. Recording ,LIVE,Remote View,ANPR /RLVD aplication ,any other analytic). So we would like to request you to change the no of stream **minimum to 4** at 2Mp,25/30 FPS ,H.264 that are indpendently configure as per the uses.	**Clause Amended as:** Please refer to the Corrigendum
413.	Section 6.1.6	PTZ Camera SI.No 2	105	II	**Image Sensor with WDR:** True WDR 90 db or better, 1/2.8' Progressive CMOS Sensor or better with minimum 2 MP resolution	Request to add 120 dB or better Justification: 120dB True WDR provides better image quality, performance and also all major OEMs' comply to this value	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
414.	Section 6.1.6	PTZ Camera SI.No 4	105	II	**Frame Rate:** Shall support up to **25/30 fps**	Request to add **60 FPS** at 1080P(1920X1080) Justification: More FPS implies the ability to capture objects moving faster than normal, Not only does this increase the chance of the number plate being captures but a higher	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						FPS is an indicator of a better shutter and sensor. For surveillance this is an imperative for smooth video flow.	
415.	Section 6.1.6	PTZ Camera SI.No 5	105	II	**Lens specs:** Auto-focus, 4.4 –120mm (corresponding to 25x) or better	Request to modify the lens range as Auto-focus, **4.3–129mm /4.5 -148.5 mm (corresponding to 30x)** or better	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
416.	Section 6.1.6	PTZ Camera SI.No 8	105	II	**PTZ:** Pan: 0 to 360° endless/continuous, 0.2 to 300°/s (auto), 0.2 to 100°/s (Manual) Tilt: 90°, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual) 20x optical zoom and 10x digital zoom	Request to add Pan manual speed 0.1°/s ~ **240°/s** Tilt Manual speed 0.1° ~ **160°/s** & Pan preset speed Preset speed: 300°/s Tilt preset speed 240°/s , **digital zoom to 12 X** Justification: Higher Pan and Tilt speed provide result in quicker response time for surveillance of multiple scenes	**Clause Amended as:** Please refer to the Corrigendum
417.	Section 6.1.6	PTZ Camera SI.No 12	105	II	**Capability:** bitrate at 1920 X 1080 @ 30 FPS per stream and MJPEG	Request to add **60 FPS at** 1080P(1920X1080) Justification: More FPS implies the ability to capture objects moving faster than normal, Not only does this increase the chance of the number plate being captures but a higher FPS is an indicator of a better shutter and sensor. For surveillance this is an imperative for smooth video flow.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
418.	Section 6.1.6	PTZ Camera SI.No 2	105	II	Image Sensor with WDR=True WDR 90 db or better, 1/2.8' Progressive CMOS Sensor or better with minimum 2 MP resolution	As WDR help camera to work in challenging light condition ,so would like to request to keep WDR value at least 120 db for to get the proper picture in challenging light condition .	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
419.	Section 6.1.6	PTZ Camera SI.No 4	105	II	Frame Rate =Shall support up to 25/30 fps	As the PTZ camera will be used at railway station ,Bus stand where it need to capture the fast moving vechical that application require **50 fps** at given 2MP resolution . So request you to please amend it to 50/60 FPS at all resolution .	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
420.	Section 6.1.6	PTZ Camera SI.No 8	105	II	PTZ=Pan: 0 to 360° endless/continuous, 0.2 to 300°/s (auto), 0.2 to 100°/s (Manual) Tilt: 90°, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual) 20x optical zoom and 10x digital zoom	As to capture and trace the Fast moving obejct in the field a high Pan and tilt speed is require so we would like to request to Please amend to:Pan: 0 to 360° endless/continuous, **0.2 to 500°/s (auto), 0.2 to 500°/s (Manual)** Tilt:: **+20 to -90°,** 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual) **30x optical zoom** and 10x digital zoom	**Clause Amended as:** Please refer to the Corrigendum
421.	Section 6.1.6	PTZ Camera SI.No 9	105	II	General =The camera shall be able to setup and stream out minimum two (2) stream profiles. Each stream profile can have its own compression, resolution, frame rate and quality independently	As in Smart city project there are mutliple of application that require a separate video stream from the CCTV camera (eg. Recording ,LIVE,Remote View,ANPR /RLVD aplication ,any other analytic). So we would like to request you to change the no of **stream minimum to**	**Clause Amended as:** Please refer to the Corrigendum

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						4 at 2Mp,25/30 FPS ,H.264 that are indpendently configure as per the uses.	
422.	Section 6.1.6	PTZ Camera - Point No. 5	105	II	Lens specs:Auto-focus, 4.4 –120mm (corresponding to 25x) or better	Lens specs:Auto-focus, 4.5 –135mm **(corresponding to 30x**) or better Clarification: Given spec is not. Asked focal length are equal to 27X, also more focal length can able to cover more deistance. Hence request you to add the specification as requested.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
423.	Section 6.1.6	PTZ Camera - Point No 2	105	II	2.Image Sensor with WDR |True WDR 90 db or better, 1/2.8' Progressive CMOS Sensor or better with minimum 2 MP resolution	Kindly request for True WDR 120db because higher will allow us to make a uniformity of image in higher or lower visible light conditions.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
424.	Section 6.1.6	PTZ Camera - Point No 5	105	II	5. Lens specs Auto-focus, 4.4 –120mm (corresponding to 25x) or bette	Kindly change the **optical zoom to 36x** which is the industry standard and correspondingly please change the Lens to 6mm to 200mm or better.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
425.	Section 6.1.6	PTZ Camera - Point No 6	105	II	6. Minimum illumination|Colour: 0.5 lux, B/W: 0.1 lux (at 30 IRE) or better	Kindly add the minimum illimination at **0 Lux** with IR on. In all other cameras the tender ask for the 0 lux illumination except for the PTZ where as it is the most critical camera.	**Clause Amended as:** Please refer to the Corrigendum
426.	Section 6.1.6	PTZ Camera - Point No 8	105	II	8. PTZ Pan: 0 to 360° endless/continuous, 0.2 to 300°/s (auto), 0.2 to 100°/s (Manual) Tilt: 90°, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual) 20x optical zoom and 10x digital zoom	Kindly change the optical zoom to 36x and digital Zoom to 16x as the PTZ cameras are mounted on a considerbale height and are expeted to capture the subject of the Event at 150 meter distance where 20x optical zoom would not perform as good as 36x.	**Clause Amended as:** Please refer to the Corrigendum
427.	Section 6.1.6	PTZ Camera - Point No 10	105	II	10. Outdoor Protection | The camera should be complete with IP 66 rated housing, Connectors, Camera Mounts, Power Supply and all Ancillary Equipment & all accessories	Request to kindly change IP 66 to IP67 which is the latest and better ingress protection rating. For the Outdoor Fixed Box camera IP68 rating for the Housing of the camera must be asked as it would face extreme weather conditions	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
428.	Section 6.1.6	PTZ Camera - Point No 20	105	II	20. Miscellaneous	The PTZ camera should have a built in Wiper to clean the Lens in unfavorable environmental conditions	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
429.	Section 6.1.6	PTZ Camera - Point No. 8	105	II	8 PTZ PAN SPEED 0.2 TO 300 DEG / SEC	Request smart city to ammend Ptz speed **240 deg or better**, as 240 deg speed is sufficient in city applications	**Clause Amended as:** Please refer to the Corrigendum

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430.	Section 6.1.6	PTZ Camera - Point No. 8	105	II	PTZ: Pan: 0 to 360° endless/continuous, 0.2 to 300°/s(auto), 0.2 to 100°/s (Manual) Tilt: 90°, 0.2 to 100°/s (Auto), 0.2 to 40°/s (Manual) 20x optical zoom and 10x digital zoom	The PTZ is recommended to be with in-built IR. Thus, the PTZ camera with IR is not recommended to have such high Pan and Tilt speed. This might create shadow image when performing Pan or Tilt operation as such speed. Thus, recommended Pan speed for the IR PTZ should be - Pan Speed (auto)- 240°/s	**Clause Amended as:** Please refer to the Corrigendum
431.	Section 6.1.6	PTZ Camera - Point No. 22	106	II	Audio =Audio capture Capability	As the PTZ camera would be install at 6-8 mtr or more height ,so there is no use of the audio feature in the camera . We would like to request you remove this. For audio applications external mike deployed near the application area is best suited. Hence kindly remove this	**Clarification:** Tender conditions shall prevail
432.	Section 6.1.6	PTZ Camera - Point No. 26	106	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection level. Hence request you to remove the clause as requested	**Clarification:** Tender conditions shall prevail
433.	Section 6.1.6	PTZ Camera SI.No 22	106	II	Audio =Audio capture Capability	As the PTZ camera would be install at 6-8 mtr or more height ,so there is no use of the audio feature in the camera . We would like to request you remove this. For audio applications external mike deployed near the application area is best suited. Hence kindly remove this	**Clarification:** Tender conditions shall prevail
434.	Section 6.1.6	PTZ Camera - Point No. 26	106	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection level. Hence request you to remove the clause as requested	**Clarification:** Tender conditions shall prevail
435.	Section 6.1.6	PTZ Camera - Point No 28	106	II	28. IR Illumination Internal/External > 150 meters	The make inbuilt IR illuminator mandatory. The PTZ camera revolves 360 Degrees whereas the external IR would be stationary toward one direction only. This would make MSI to put 4 or more IR illuminators to capture the entire diameteric View in 0 lux condition. Secondly the IR shall be of the same OEM	**Clarification:** Tender conditions shall prevail
436.	Section 6.1.6	PTZ Camera - Point No. 23	106	II	16.Local Storage SD Card slot with minimum 64GB CLASS 10 SD CARD AND EXPANSION 128GB	Request smart city to increase the memory card slot size, So Camera shall be able to record video for 20 days at 1080p@25fps -Built in SD card slot **EXPANSION up to 1Tb** with Class 10 speed.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
437.	Section 6.1.7	Public Address System - Point No. 12	107	II	Language=The horn speaker shall provide a function for altering the language of the user interface, and shall include support for at least English and Hindi	As english is standar language to operate any system , So we would like to request you please change it to Language=The horn speaker shall provide a function for altering	**Clause Amended as:** Please refer to the Corrigendum

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					the language of the user interface, and shall include support for at least English.		
438.	Section 6.1.8	Public Address System - Point No. 10	107	II	Supported protocols: DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, TCP, UDP, IGMP, ICMP, DHCP, ARP, SOCKS, SSH	These specs are not fpr PA systems Clarification: The given protocols are copied from camera sepcification. Where CIFS/SMB are file trnasfer protocol. Request you give the PA system spec as per attached annexure I	**Clause Amended as:** Please refer to the Corrigendum
439.	Section 6.1.7	Public Address System with Integrated Audio Amplifier, Sl. No 12	107	II	Language=The horn speaker shall provide a function for altering the language of the user interface, and shall include support for at least English and Hindi	As english is standard language to operate any system , So we would like to request you please amend it to Language=The horn speaker shall provide a function for altering the language of the user interface, and shall include support for at least English.	**Clause Amended as:** Please refer to the Corrigendum
440.	Section 6.1.7	Public Address System with Integrated Audio Amplifier - Point No. 10	107	II	Supported protocols: DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnPTM, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, TCP, UDP, IGMP, ICMP, DHCP, ARP, SOCKS, SSH	These specs are not fpr PA systems Clarification: The given protocols are copied from camera sepcification. Where CIFS/SMB are file trnasfer protocol. Request you give the PA system spec as per attached annexure I	**Clause Amended as:** Please refer to the Corrigendum
441.	Section 6.1.8	IR Illuminator - Point No. 5	108	II	Operating Condition= -5° to 55°C or better	Request you to change it to -5 to 50 or better.	**Clause Amended as:** Please refer to the Corrigendum
442.	Section 6.1.9	Emergency Call Boxes - Point No. 4	108	II	Speaker & Microphone=VOIP Phone, Hands-free calling, Watertight and industrial grade equipment, Built-In minimum 8 Ohm Speaker with minimum 20W Class D amplifier	As some feature are OEM specific ,request you to change it to standar spec as:VOIP Phone, Hands-free calling, Watertight and industrial grade equipment, Built- Speaker with amplifier	**Clause Amended as:** Please refer to the Corrigendum
443.	Section 6.1.9	Emergency Call Boxes - Point No. 6	108	II	CCTV Camera= IP based, Color camera with minimum D1 resolution, Day/Night mode operations	As D1 resolution is very low ,Face of person who is calling from door phone will not be clear . Request you to Pls change to:IP based, Color camera with minimum**1280x960 (1.3 MP) resolution**,Day/Night mode operations, 1280x960 (1.3 MP)	**Clause Amended as:** Please refer to the Corrigendum
444.	Section 6.1.9	Emergency Call Boxes - Point No. 7	108	II	Battery Internal Battery with different charging options (Solar/Mains)	As MSI will provide a UPS back up to all the System ,So it would not require in-built . This is a OEM specific ,request you to please remove this.	**Clarification:** Tender conditions shall prevail
445.	Section 6.1.9	Emergency Call Boxes - Point No. 7	108	II	Battery: Internal Battery with different charging options (Solar/Mains)	Emergeny Call box is the crucial component in the Smart city , which should operated 24x7 , and hence it is recommended to have external battery to provide the power supply in the Energency Call box, thus, requesting to ammend the clause to Battery- External Battery	**Clarification:** Tender conditions shall prevail
446.	Section 6.1.8	IR illuminator Sl No-6	108	II	**Certification:** CE, FCC, RoHS	Request to add CE,FCC ,RoHS **,UL** certificate for IR Illuminator Justification: In Technical Specificaton of ANPRcamera, certification for IR illuminator is not mentioned, this can severely	**Clarification:** Tender conditions shall prevail

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						compromise the minimum standard of quality. The cameras are required to be both UL and CE approved but the main supporting device i.e. the illuminator which will enable the cameras to see clearly the objects in pitch dark/completely dark environment.. Hence, we request you to make all UL, CE,RoHS and FCC compulsory for the External IR illuminators.	
447.	Section 6.1.8	IR illuminator SI No-5	108	II	Operating Condition=-5° to 55°C or better	Request you to amend it to -5 to 50 or better.	**Clause Amended as:** Please refer to the Corrigendum
448.	Section 6.1.9	Emergency Call Box with Panic Button SI No-4	108	II	Speaker & Microphone=VOIP Phone, Hands-free calling, Watertight and ndustrial grade equipment, Built-In minimum 8 Ohm Speaker with minimum 20W Class D amplifier	As some feature are OEM specific ,request you to amend it to standard spec as:VOIP Phone, Hands-free calling, Watertight and industrial grade equipment, BuiltSpeaker with amplifier	**Clause Amended as:** Please refer to the Corrigendum
449.	Section 6.1.9	Emergency Call Box with Panic Button SI No-6	108	II	CCTV Camera= IP based, Color camera with minimum D1 resolution, Day/Night mode operations	As D1 resolution is very low ,Face of person who is calling from door phone will not be clear .Request you to Please amend to:IP based, Color camera with minimum1280x960 (1.3 MP) resolution, Day/Night mode operations, 1280x960 (1.3 MP)	**Clause Amended as:** Please refer to the Corrigendum
450.	Section 6.1.9	Emergency Call Box with Panic Button SI No-7	108	II	Battery =Internal Battery with different charging options (Solar/Mains)	As MSI will provide a UPS back up to all the System ,So it would not require inbuilt . This is a OEM specific ,request you to please exclude this.	**Clarification:** Tender conditions shall prevail
451.	Section 6.1.9	Emergency Call Box with Panic Button - Point No. 7	108	II	Battery: Internal Battery with different charging options (Solar/Mains)	Emergency Call box is the crucial component in the Smart city , which should operated 24x7 , and hence it is recommended to have external battery to provide the power supply in the Emergency Call box, thus, requesting to amend the clause to Battery- External Battery	**Clarification:** Tender conditions shall prevail
452.	Section 6.1.11	Body Camera with Docking System - Point No. 18	109	II	Design-It should also give an audible beep when the camera is switched on/ off and when the battery has become low etc.	Audio beep is not necessary, also it is brand specific, requesting you to remove this clause.	**Clarification:** Tender conditions shall prevail
453.	Section 6.1.11	Body Camera with Docking System - Point No. 22	110	II	Capacity of Docking Station: Min 10 slot chassis with battery charging	Minimum 8 Docking station is sufficient to serve the purpose. Thus, requesting you to ammend the clause **Min 8 slot chassis** with battery charging	**Clause Amended as:** Please refer to the Corrigendum
454.	Section 6.1.11	Body Camera With Docking System SI No. 18	110	II	**Design:** The BWCS should be water resistant, dust resistant, and impact resistant and should be operable in normal steady rainfall (IP-66 or better).	Request to add The BWCS should be water resistant, dust resistant, and impact resistant and should be operable in normal steady rainfall **(IP-67).** Certificate to be attached for IP67	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
455.	Section 6.1.11	Body Camera With Docking System	110	II	additional point	Request to add CE,FCC, **ROHS and NABL agreegated**	**Clarification:** Tender conditions shall prevail

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456.	Section 6.1.11	Body Camera with Docking Station - Point No. 18	110	II	Design-It should also give an audible beep when the camera is switched on/ off and when the battery has become low etc.	Audio beep is not necessary, also it is brand specific, requesting you to remove this clause.	**Clarification:** Tender conditions shall prevail
457.	Section 6.1.11	Body Camera with Docking Station - Point No. 22	110	II	Capacity of Docking Station: Min 10 slot chassis with battery charging	Minimum 8 Docking station is sufficient to serve the purpose. Thus, requesting you to amend the clause Min 8 slot chassis with battery charging	**Clause Amended as:** Please refer to the Corrigendum
458.	Section 6.4	Industrial grade Field Layer-2 FE 8 port POE Switch	125	II	Layer 3 features	Request for addtion in Layer 3 features: Multicast routing protocol i.e PIM, PIM-SM, PIM-SSM support and PBR. Remarks: To view the same video feed by multiple users requires multicast support in network and these switches are the entry point for multicast traffic. So request to add support for Multicast routing protocols in switch to track which multicast packets to forward to which switch and to their directly connected LANs in future without changing the hardware.	**Clause Amended as:** Please refer to the Corrigendum
459.	Section 6.4	Industrial grade Field Layer-2 FE 16 port POE Switch	125	II	Layer 3 features	Request for addtion of Multicast routing protocol i.e PIM, PIM-SM, PIM-SSM and PBR support. Remarks: To view the same video feed by multiple users, requires multicast support in network and here industrial grade switches are the entry point for multicast traffic. So request to add support for Multicast routing protocols in switch to track which multicast packets forward to which switch or which directly connected LANs in future without changing the hardware.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
460.	Section 6.4	Industrial grade Field Layer-2 FE 16 port POE Switch	125	II	Security features: Clarification	As per our understanding security features specification are common for both 8 port & 16 Port switch, hence not mentioned in 16 port switch but compliance need to provide in both the switches. Kindly confirm. Remarks: Since surveillance data is critical fo any city it should be secured and no security should be compromised at any layer. So request to add missing security specs in 16 port category too.	**Clarification:** "**Additional Clause – Please refer corrigendum**" - The change suggested by the bidder shall add to the solution leading to better functionality
461.	Section 6.4	Industrial grade Field Layer-2 FE 16 port POE Switch	125	II	General features: Clarification	As per our understanding below specs of general feature are common for both the switch types, so not mentioned in 16 port switch specs but bidder need to provide the compliance. Kindly confirm. "Switch must support Ethernet CFM / CFM (IEEE 802.1ag), Performance monitoring (ITU T Y.1731) and Unit-Directional Link Detection (UDLD) from day 1" Remarks: These specs are missing in 16 port switch. However its	**Clarification:** "**Additional Clause – Please refer corrigendum**" - The change suggested by the bidder shall add to the solution leading to better functionality

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						there in 8 port switch specs. So request please add in 16 port switch for compliance purpose.	
462.	Section 6.4	Industrial Grade Field Layer -2 FE 8 Port POE Switch - Point No. 3	125	II	Layer 3 features	Request for addition of Multicast routing protocol support in 16 Port PoE switch i.e PIM, PIM-SM, PIM-SSM and PBR support. Remarks: Rrequest to add support for Multicast routing protocols in switch to track which multicast packets forward to which switch or which directly connected LANs in future without changing the hardware.	**Clause Amended as:** Please refer to the Corrigendum
463.	Section 6.4	Industrial Grade Field Layer -2 FE 8 Port POE Switch - Point No. 5	125	II	Security features: Clarification	As per our understanding security features specification are common for both 8 port & 16 Port switch, hence not mentioned in 16 port switch but compliance need to provide in both the switches. Kindly confirm. Remarks: Since surveillance data is critical fo any city it should be secured and no security should be compromised at any layer. So request to add missing security specs in 16 port category too.	**Clause Amended as:** Please refer to the Corrigendum
464.	Section 6.4	Industrial Grade Field Layer -2 FE 8 Port POE Switch - Point No. 1	125	II	General features: Clarification	As per our understanding below specs of general feature are common for both the switch types, so not mentioned in 16 port switch specs but bidder need to provide the compliance. Kindly confirm. "Switch must support Ethernet CFM / CFM (IEEE 802.1ag), Performance monitoring (ITU T Y.1731) and Unit-Directional Link Detection (UDLD) from day 1" Remarks: These specs are missing in 16 port switch. However its there in 8 port switch specs. So request please add in 16 port switch for compliance purpose.	**Clause Amended as:** Please refer to the Corrigendum
465.	Section 6.4	Industrial Grade Field Layer -2 FE 8 Port POE Switch - Point No. 3	125	II	Layer 3 features	Request for addtion in Layer 3 features: Multicast routing protocol i.e PIM, PIM-SM, PIM-SSM support and PBR. Remarks: To view the same video feed by multiple users requires multicast support in network and these switches are the entry point for multicast traffic. So request to add support for Multicast routing protocols in switch to track which multicast packets to forward to which switch and to their directly connected LANs in future without changing the hardware.	**Clause Amended as:** Please refer to the Corrigendum
466.	Section 6.4.1	Industrial Grade Field Layer - 2 FE 8 port POE Switch	125	II	NA	In point no. 2 of item no. 6.4.1 (Industrial grade Field Layer-2 FE 8 port POE Switch) instead of "REP or equivalent" please mention "Pls mention REP or equivalent ring protection protcol with convergence of 50ms or better" as mentioned in 16 port switch as well.	**Clause Amended as:** Please refer to the Corrigendum

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467.	Section 6.4.1	Industrial Grade Field Layer - 2 FE 8 port POE Switch	125	II	NA	In point no. 5 of item no. 6.4.1 (Industrial grade Field Layer-2 FE 8 port POE Switch) Please remove 802.1AE this as this is limiting many OEM participant, and may create network performance issue thereby it may not be recommended for LAN network.	**Clause Amended as:** Please refer to the Corrigendum
468.	Section 6.4.1	Industrial grade field layer-2 FE 8 port PoE Switch - Point No. 3	125	II	6.4.1 - Industrial grade field layer-2 FE 8 port PoE Switch: - 3. Layer 3 Features: Static, Inter-VLAN routing must be enabled from day 1	We would like to bring in your notice that access layer is kept simple in terms of implementation and static routing is enabled if required on this layer. Kindly consider to ammend the clause as "Layer 3 Features: Static routing must be enabled from day 1." Kindly confirm.	**Clause Amended as:** Please refer to the Corrigendum
469.	Section 6.4.1	Industrial grade Field Layer-2 FE 8 port POE switch Point no 1	125	II	• Switch must support Ethernet CFM / CFM (IEEE 802.1ag), Performance monitoring (ITU T Y.1731) and Unit-Directional Link Detection (UDLD) from day 1	Said feature isnonkly avlaible in commercialswitches;however for Industrial switchess monitroign feature is available hence mention the equivalent features	**Clause Amended as:** Please refer to the Corrigendum
470.	Section 6.4.1	Industrial grade Field Layer-2 FE 8 port POE switch Point no 3	125	II	Static, Inter-VLAN routing must be enabled from day one	This features is of Layer switches and not avaible in Layer 2 also its OEM specifc and available with 1 ~2 OEM.hence remove it as edge level this features not require	**Clause Amended as:** Please refer to the Corrigendum
471.	Section 6.4.1	Industrial grade Field Layer-2 FE 8 port POE switch Point no 5	125	II	• Switch should support static ARP, Proxy ARP, UDP forwarding and IP source guard, DHCP Snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP Source Guard, Network Address Translation	DHCP snooping, IP source guard and Dynamic ARP Inspection (DAI) etc are Security features for commercial grade switches. For industrial grade, IEC 62443-4-2 is baseline requirement and non proprietary standard of the industrial automation industry. It relates to cyber threats posed by hackers, which is the most common attack experienced in unsecured industrial networks. Request to consider IEC 62443-4-2 Cybersecurity standard. AS well Network Address Translator is the Layer 3 Router function and not available in lyaer as well OEM specific hence remove it	**Clause Amended as:** Please refer to the Corrigendum
472.	Section 6.4.1	Industrial grade field layer-2 FE 8 Port POE switch- Point No. 1	125	II	Switch should have minimum 120W POE power available or extra power injector should be provided in the junction box.	Request to increase it to 150W for the Cameras connectivity where ever required this is the min POE budget required.	**Clause Amended as:** Please refer to the Corrigendum
473.	Section 6.4.1	Industrial grade field layer-2 FE 8 Port POE switch- Point No. 1	125	II	Should support minimum 12 GBPS or more, full duplex wire rate switching throughtput.	Switching capacity should be minimum 20Gb as it is ANPR Camera, which requires more switching capacity	**Clause Amended as:** Please refer to the Corrigendum
474.	Section 6.4.1	Industrial grade field layer-2 FE 8 Port POE switch- Point No. 1	125	II	Switch must support Ethernet CFM/CFM(IEEE 802.1ag) , performance monitoring(ITU T Y.1731) and unit Directional Link Detection (UDLD) from day 1	Request to add ITU T G.8032 ring protection as this is mandatory for smart city ring network	**Clause Amended as:** Please refer to the Corrigendum

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475.	Section 6.4.1	Industrial grade field layer-2 FE 8 Port POE switch- Point No. 5	125	II	Switch should support static ARP, Proxy ARP, UDP forwarding and IP source guard, DHCP Snooping, DHCP option 82, Dynamic ARP inspection(DAI), IP source guard, Network address translation, BPDU Guard, Port Security, DHCP snooping, 802.1x, 802.1AE, MAC Authentication Bypass, 802.1x Multi-domain Authentication, Strom control.	Request to add MACSEC which is mandatory for outdoor implementation	**Clause Amended as:** Please refer to the Corrigendum
476.	Section 6.4.2	Industrial grade field layer-2 FE 16 port PoE Switch - Point No. 3	126	II		Kindly add "PIM for IPv4 and IPv6 to ensure smooth operation of multicast video streams"	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
477.	Section 6.4.1	Industrial grade Field Layer-2 FE 8 port POE switch Point no 7	126	II	• Temperature: -5 to +70ºC	Considering to Indian Enviormnetal condition Operating temprature will be 0 to 60 Degree meets the functional requirment without any intruption.as this tmorature follwoed by the All smart city tender till date	**Clause Amended as:** Please refer to the Corrigendum
478.	Section 6.4.1	Industrial grade field layer-2 FE 8 Port POE switch- Point No. 8	126	II	Switch should be EN 55022 certified	Request to change outdated standard 55022 with 55032	**Clause Amended as:** Please refer to the Corrigendum
479.	Section 6.4.1	Industrial grade field layer-2 FE 8 Port POE switch- Point No. 8	126	II	The switch should support NTP	Add IEEE 1588	**Clause Amended as:** Please refer to the Corrigendum
480.	Section 6.4.1	Industrial grade field layer-2 FE 8 Port POE switch- Point No. 8	126	II	Switch should be EN 61000-4-2 Electro static discharge, EN 61000-4-5 surge, EN 61000-4-8 Power frequency Magnetic field	Add outdoor standards like 60068 or better to 60255-21-2(mechanical shock) and 60255-21-1(Vibration) Surge protection to be 6KV as this is outdoor implementation	**Clause Amended as:** Please refer to the Corrigendum
481.	Section 6.4.1	Industrial grade field layer-2 FE 8 Port POE switch- Point No. 10	126	II	Switch shall support per-Port POE configurations .	Switch should support HPoE port (60 W), IEEE 802.3AT (30 W) and IEEE 802.3 AF (15 W)	**Clause Amended as:** Please refer to the Corrigendum
482.	Section 6.4.2	Industrial grade Field Layer-2 FE 16 port POE switch Point no 11	127	II	Operating Temperature 0 C to +70C with fan less design	Considering to Indian Enviormnetal condition Operating temprature will be **0 to 60** Degree meets the functional requirment without any intruption.as this tmorature follwoed by the All smart city tender till date	**Clarification:** Tender conditions shall prevail
483.	Section 6.5	6.5.1 - Point No.16	130	II	6.5.1 VMD Board including VMD Controller and Cabinet IP66 Compliant	Section 6.5.1 Point No. 16 says "Complete VMS should be of IP65 protection level". There is a mismatch of IP66 vs IP65 in the heading of the section and point no. 16. For outdoor Display environement we suggest **IP65** should be used as the visibility of the VMS to the citizens will not be best in IP66. Request you to please	**Clause Amended as:** Please refer to the Corrigendum

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						change **IP66** in the heading of the section 6.5.1 **with IP65**	
484.	Section 6.5.1	VMD Board including VMD Controller and Cabinet IP66 Complaints - Point No. 6	130	II	Pixel pitch 20 mm or better	We request you to please change it to 16 mm or better with 3-in-1 SMD technology which is the latest technology of VMD and also the **pixel pitch of 16 mm** is suitable for the requirment.	**Clarification:** Tender conditions shall prevail
485.	Section 6.5.2	VMD Board including VMD Controller and Cabinet IP66 Complaints - Point No. 8	130	II	Viewing angle Horizontal -110 degree – 140 degree Vertical -50 degree – 70 degree (Viewing angle shall ensure message readability for motorists in all lanes of the approach road)	Viewing angle should be 140 degree V and 90 H for serving the actual purpose of ensuring the message readability.	**Clause Amended as:** Please refer to the Corrigendum
486.	Section 6.5.3	VMD Board including VMD Controller and Cabinet IP66 Complaints - Point No. 14	130	II	temperature The system should be capable of working in ambient temperature range of -5 degree C to 55 degree C.	0 to 50 deg	**Clarification:** Tender conditions shall prevail
487.	Section 6.5.4	NA	130	II	Cabinet configuration	The cabinet should be IP65 Front and IP54 Rear compliant.	RFP reference could not be established
488.	Section 6.5.5	VMD Board including VMD Controller and Cabinet IP66 Complaints - Point No. 10	130	II	Refresh rate Refresh Frequency should not be less **90 Hz**. No visible flicker to naked eye.	standard Refresh Rate of **960 Hz** shall be applicable for the product	**Clarification:** Tender conditions shall prevail
489.	Section 6.5.6	NA	130	II	Brightness nits	standard parameter for measuring brightness is the Calibrated Brightness which should be 5500 nits, as this is the standard parameter used in industry.	RFP reference could not be established
490.	Section 6.5.7	VMD Board including VMD Controller and Cabinet IP66 Complaints - Point No. 4	130	II	Contrast ratio R3 as per IRC/EN 12966 standard or >30 perpendicular to the bold face and >10 at an angle of 70 degrees to the perpendicular	It should be Minimum 1500:1	**Clarification:** Tender conditions shall prevail
491.	Section 6.5.8	NA	130	II	LED makes	The major component of the VMD is LED therefore we request you to please includes name of the few LED makes like Nichia/Cree/Nationstar to ensure the quality product and avoid the use of low grade LEDs.	**Clarification:** Tender conditions shall prevail
492.	Section 6.5.9	NA	130	II	Certifications bis	We also request you to please add Certifications: BIS, CE, UL, FCC for ensuring the quality and robust product.	**Clarification:** Tender conditions shall prevail

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493.	Section 6.5.10	NA	130	II	Experience of similar project installation base	Add Experience of installation of same type of LED Screen atleast 100+ in single network with proof to ensure the proper opertaion and support for the VMD.	**Clarification:** Tender conditions shall prevail
494.	Section 6.5	6.5.1 - Point No. 17	131	II	Section 6.5.1 Point No. 17 in Vol II - Power	Suggest to include Maximum Power Consumption limit of 400 W/Sq meter and Average Power Consumption limit of 200 W/Sq meter	**Clarification:** Tender conditions shall prevail
495.	Section 6.5.1	VMD board including VMD controller and Cabinet IP66 Compliant Point No. 16	131	II	Complete VMS should be of IP 65 protection level. As per EN60529 or equivalent Standard.		**Clause Amended as:** Please refer to the Corrigendum
496.	Section 6.5	Variable Message Display (VMD) Board Point No 6	131	II	Variable Message Display	We request to amend the VMD specification as per industrial practices and global standards and should include below at the minimum: 1. Dimensions: 3.0 mtr length X 1.8 mtr height X 0.2 mtr depth. (3000mm x 1800mm X 200mm) 2. Pixel Pitch: 10mm or better 3. Full Matrix: Number of lines & characters adjustable, active area: 2.88mX1.6m at least 4. The VMD should be EN12966 compliant 5. It should be work/communicate on NTCIP compliant protocol.	**Clause Amended as:** Please refer to the Corrigendum
497.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Point No. 1	133	II	Proposed make of Storage Optimized Server with Virtualization Software should be from reputed brands of Storage System's OEM. For investment rationalization, the proposed Storage Optimized Servers should be modular & scalable in nature wherein the Storage can be scaled by adding capacity to the Servers and Servers to the Video Recording Server Cluster.	Request you to kindly amend it as" Proposed make of Storage Optimized Server with Virtualization Software should be from reputed brands of **Server System's OEM**. For investment rationalization, the proposed Storage Optimized Servers should be modular & scalable in nature wherein the Storage can be scaled by adding capacity to the Servers and Servers to the Video Recording Server Cluster" Remarks: Since this option calls for High capacity servers which provide lower cost with high storage solution. Not all Server vendors are Storage OEM's too. Request to relax this clause for wider participation.	**Clause Amended as:** Please refer to the Corrigendum
498.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Point No. 7	133	II	Should be provided with minimum on-board Flash Backed Write Cache of up to 2 GB or higher	Request you to kindly amend it as" Should be provided with minimum on-board Flash Backed Write Cache of up to **4 GB or higher**" Remarks: On-Board cache protects data from failure, 2GB cache is very small for protection, request you to increase this to 4GB cahce	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
499.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1:	133	II	Proposed make of Storage Optimized Server with Virtualization Software should be from reputed brands of Storage System's OEM. For investment rationalization, the proposed Storage Optimized	Request you to kindly amend it as" Proposed make of Storage Optimized Server with Virtualization Software should be from reputed brands of **Server System's OEM**. For investment rationalization, the proposed Storage Optimized Servers should be modular &	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
		Storage Optimized Server with Virtualization Software - Point No. 1			Servers should be modular & scalable in nature wherein the Storage can be scaled by adding capacity to the Servers and Servers to the Video Recording Server Cluster.	scalable in nature wherein the Storage can be scaled by adding capacity to the Servers and Servers to the Video Recording Server Cluster" Remarks: Since this option calls for High capacity servers which provide lower cost with high storage solution. Not all Server vendors are Storage OEM's too. Request to relax this clause for wider participation.	
500.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 1	133	II	Storage optimized Server with Virtualization software	We request ASCL to **remove this option as this specifications**. Justification: As this will create imbalance in the solution as the surveillance solution need to talk to other Storages on Premises as well as Cloud. On TOP of it having a server with internal storage with have multiple points of faliure and would impact SLAs 99.999% as asked in the RFP and will adversly impact RTO & RPO asked in the RFP.	**Clause Amended as:** Please refer to the Corrigendum
501.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity)	133	II	Option 1: Surveillance storage / Option 2: SAN storage - 1300 TB	Entire storage capacity will not be completely utilized from Day 1 in any scenarios. Is bidder allowed to propose incremental storage expansion over the period of 5 years starting from minimum 100TB from Day 1 ? Request authorities to confirm	**Clarification:** Tender conditions shall prevail
502.	Section 6.7	Option -1 - Storage Optimized Server with Virtualization Software	133	II	Storage optimized Server with Virtualization software	We request ASCL to **remove this option as this specifications**. Justification: As this will create imbalance in the solution as the surveillance solution need to talk to other Storages on Premises as well as Cloud. On TOP of it having a server with internal storage with have multiple points of faliure and would impact SLAs 99.999% as asked in the RFP and will adversly impact RTO & RPO asked in the RFP.	**Clause Amended as:** Please refer to the Corrigendum
503.	Section 6.7	Option -1 - Storage Optimized Server with Virtualization Software	133	II	Storage optimized Server with Virtualization software	We request ASCL to **remove this option as this specifications. Justification:** As this will create imbalance in the solution as the surveillance solution need to talk to other Storages on Premises as well as Cloud. On TOP of it having a server with internal storage with have multiple points of faliure and would impact SLAs 99.999% as asked in the RFP and will adversly impact RTO & RPO asked in the RFP.	**Clause Amended as:** Please refer to the Corrigendum
504.	Section 6.7.2	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1:	134	II	Unifed storage with SAN Switch for Video and other application data	We reqeust ASCL to modify this to **SAN all Flash storage.** Justification: As the on premise storage in Option-2 is SAN, it would be seemless for OEM to establish the replication/cloud	**Clarification:** Tender conditions shall prevail

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		Storage Optimized Server with Virtualization Software - Point No. 1				data exchange natively having same type of protocols like SAN as comapred to having Unified and that will also help in reducing CAPEX/OPEX for the project.	
505.	Section 6.7.2	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 3	134	II	Controller/node should provide 128 GB or more memory scalable to 256 GB	Request you to kindly amend it as" Controller/node should provide 256 GB or more memory scalable to 512 GB" Remarks: Request to increase the memory per controller since huge storage capacities demands for hgher Memory requirements. Kindly update to provide the optimal Surveillance Storage solution	**Clarification:** Tender conditions shall prevail
506.	Section 6.7.2	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 4	134	II	Capacity: The storage must support SAS, SSD and NL SAS disks simultaneously. For balanced performance, rebuild time & capacity, the storage should be provisioned with minimum 1300 TB of Usable capacity (RAID 6, 8D+2P configuration) with maximum 8TB NLSAS drives. Minimum two spare drives of proposed disk type to be provided for every Controller. 2 Drives of proposed capacity to be configured & kept at the site as cold spares.	Request you to kindly amend it as" Capacity: The storage must support SSD and NL SAS disks simultaneously. For balanced performance, rebuild time & capacity, the storage should be provisioned with minimum 1300 TB of Usable capacity (RAID 6, **Configurtion as per best recommended configuration**) with maximum **10TB NLSAS drives**. Minimum two spare drives of proposed disk type to be provided for every Controller." Remarks: Video surveillance solutions demands NL-SAS or SATA drives to provide the low performance and high capacity requirements. Drive RAID configuration should be as per best recommended practices by the OEM Request to relax and update this point for wider participation. in such a manner where CAPEX can be reduced and scalability can be achieved whenever it is required.	**Clarification:** Bidder to provision storage configuration as per the their solution design to meet minimum SLA requirements
507.	Section 6.7.2	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 11	134	II	Storage Solution should be sized to accept 100% writes from minimum 1400 Number of IP cameras @3Mb/s. On top of performance required to write from cameras the storage Solution should be sized to accept 100% headroom to accommodate future growth. (Compute Power)	Request you to kindly amend it as" Storage Solution should be **sized by MSI to accept desired** writes from minimum 1400 Number of IP cameras @3Mb/s . Storage solution should be able to scale to 100% of the current capacity to accommodate future growth." Remarks: Let MSI to design the solution which is optimal and required for the surveillance solution. Asking for 100% overhead will increase the TCO of the proposed Storage. Solution should be designed	**Clarification:** Tender conditions shall prevail
508.	Section 6.7.2	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server	134	II	The capacity of the proposed configuration should be 100% scalable with the proposed disk configuration. No additional software/feature license or controller(s) should be required for further 100% capacity expansion. It should support SSD,	Request you to kindly amend it as" The capacity of the proposed configuration should be 100% scalable ~~with the proposed disk configuration~~ Remarks: This clause will push MSI's to quote a full fledge large SAN Storage arrays which is not requried for	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs

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		with Virtualization Software - Point No. 14			NL-SAS and enterprise SAS Drives in the same enclosure for future expansions	surveillance solutions. In order to keep a cost low for the surveillance solution request to dilute this point for wider participation.	
509.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software- Point No. 7	134	II	Should be provided with minimum on-board Flash Backed Write Cache of up to 2 GB or higher	Request you to kindly amend it as" Should be provided with minimum on-board Flash Backed Write Cache of up to **4 GB or higher"** Remarks: On-Board cache protects data from failure, 2GB cache is very small for protection, request you to increase this to 4GB cahce	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
510.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 3	134	II	Controller/node should provide 128 GB or more memory scalable to 256 GB	Request you to kindly amend it as" Controller/node should provide 256 GB or more memory scalable to 512 GB" Remarks: Request to increase the memory per controller since huge storage capacities demands for hgher Memory requirements. Kindly update to provide the optimal Surveillance Storage solution.	**Clarification:** Tender conditions shall prevail
511.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualation Software - Point No. 4	134	II	Capacity: The storage must support SAS, SSD and NL SAS disks simultaneously. For balanced performance, rebuild time & capacity, the storage should be provisioned with minimum 1300 TB of Usable capacity (RAID 6, 8D+2P configuration) with maximum 8TB NLSAS drives. Minimum two spare drives of proposed disk type to be provided for every Controller. 2 Drives of proposed capacity to be configured & kept at the site as cold spares.	Request you to kindly amend it as" Capacity: The storage must support SSD and NL SAS disks simultaneously. For balanced performance, rebuild time & capacity, the storage should be provisioned with minimum 1300 TB of Usable capacity (RAID 6, **Configurtion as per best recommended configuration)** with maximum 10TB NLSAS drives. Minimum two spare drives of proposed disk type to be provided for every Controller." Remarks: Video surveillance solutions demands NL-SAS or SATA drives to provide the low performance and high capacity requirements. Drive RAID configuration should be as per best recommended practices by the OEM Request to relax and update this point for wider participation.	**Clarification:** The Bidder shall required to provision storage configuration as per the their solution design to meet minimum SLA requirements
512.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 11	134	II	Storage Solution should be sized to accept 100% writes from minimum 1400 Number of IP cameras @3Mb/s. On top of performance required to write from cameras the storage Solution should be sized to accept 100% headroom to accommodate future growth. (Compute Power)	Request you to kindly amend it as" Storage Solution should be **sized by MSI to accept desired writes** from minimum 1400 Number of IP cameras @3Mb/s . Storage solution should be able to scale to 100% of the current capacity to accommodate future growth." Remarks: Let MSI to design the solution which is optimal and required for the surveillance solution. Asking for 100% overhead will increase the TCO of the proposed Storage. Solution should be designed in such a manner	**Clarification:** Tender conditions shall prevail

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						where CAPEX can be reduced and scalability can be achieved whenever it is required.	
513.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 14	134	II	The capacity of the proposed configuration should be 100% scalable **with the proposed disk configuration**. No additional software/feature license or controller(s) should be required for further 100% capacity expansion. It should support SSD, NL-SAS and enterprise SAS Drives in the same enclosure for future expansions	Request you to kindly amend it as" The capacity of the proposed configuration should be 100% scalable . Remarks: This clause will push MSI's to quote a full fledge large SAN Storage arrays which is not requried for surveillance solutions. In order to keep a cost low for the surveillance solution request to dilute this point for wider participation.	**Clarification:** Additional feature – "Tender condition shall prevail" - RFP specifications are generic, covers all the key solution requirements and supported by many OEMs
514.	Section 6.7.1	Surveillance Storage/ Option 1 - Point No. 4	134	II	Capacity: The Storage must support SAS, SSD and NL SAS disks simultaneously. For balanced performance, rebuild time and capacity, the storage should be provisioned with minimum 1300TB of usable capacity (RAID6, 8D+2P configuration) with maximum 8TB NL-SAS drives. Minimum two spare drives of proposed disk type to be provided for every controller. 2Drives of proposed capacity to be configured & kept at the site as cold spares.	As Software Optimsed Storages name suggests they are not driven entirely by the hardware configurations and optimsed for performance hence for balanced performance, rebuild time and capacity, Hence please modify the caluse "Capacity: The Storage must support SAS, SSD and NL SAS disks simultaneously. For balanced performance, rebuild time and capacity, the storage should be provisioned with minimum 1300TB of usable capacity with maximum 8TB NL-SAS drives. Minimum 5% spare drives capacity to be provided across all the controller. 2Drives of proposed capacity to be configured & kept at the site as cold spares."	**Clarification:** The Bidder shall required to provision storage configuration as per the their solution design to meet minimum SLA requirements
515.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 16	135	II	All the necessary software (GUI Based) to configure and manage the storage capacity, RAID configuration, Snapshots, clones, Thin Provisioning, Role based Access Control (RBAC) with audit Logs, Remote replication, VAAI, ODX etc. are to be provided.	Request you to kindly amend it as" All the necessary software (GUI/CLI Based) , RAID configuration,Role based Access Control (RBAC) and System health and monitoring Remarks: Since server based storage is sufficient to suffice the solution requirement, request to remove the functionalities which are provided by typical storage array's.	**Clarification:** Tender conditions shall prevail
516.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 17	135	II	The proposed storage solution must integrate with the Unified All Flash Storage through the VMS software for cloud backup & replication.	Request you to kindly amend it as" The proposed **host based cloud replication solution** must integrate with the Unified All Flash Storage through the VMS software for cloud backup & replication. Remarks: It is not required for Video storage to talk to application data storage else the concept of asking two separate storage arrays to reduce the video storage cost will not be achieved. Request to remove this point. All these functionalities can be provided with option 2 SAN storage specifications (depends upon the MSI solution).	**Clarification:** Tender conditions shall prevail

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517.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 16	135	II	All the necessary software (GUI Based) to configure and manage the storage capacity, RAID configuration, Snapshots, clones, Thin Provisioning, Role based Access Control (RBAC) with audit Logs, Remote replication, VAAI, ODX etc. are to be provided.	Request you to kindly amend it as" All the necessary software (GUI**/CLI Based)** , RAID configuration,Role based Access Control (RBAC) and System health and monitoring Remarks: Since server based storage is sufficient to suffice the solution requirement, request to remove the functionalities which are provided by typical storage array's.	**Clarification:** Tender conditions shall prevail
518.	Section 6.7.1	Surveillance Storage (1300 TB NL SAS Drives Usable Capacity) - Option 1: Storage Optimized Server with Virtualization Software - Point No. 17	135	II	The proposed storage solution must integrate with the Unified All Flash Storage through the VMS software for cloud backup & replication.	Request you to kindly amend it as" The proposed **host based cloud replication solution** must integrate with the Unified All Flash Storage through the VMS software for cloud backup & replication. Remarks: It is not required for Video storage to talk to application data storage else the concept of asking two separate storage arrays to reduce the video storage cost will not be achieved. Request to remove this point. All these functionalities can be provided with option 2 SAN storage specifications (depends upon the MSI solution). Remarks: Request you to kindly amend it as" The proposed host based cloud replication solution must integrate with the Unified All Flash Storage through the VMS software for cloud backup & replication.	**Clarification:** Tender conditions shall prevail
519.	Section 6.7.2	Unified storage with SAN Switch (75TB for Video and Application Data)	137	II	Unified storage with SAN Switch (75TB for Video and Application Data)	Addition Requested as Option 2 Remarks: Request to confirm if MSI can quote **Hyperconvered solution** to provide 75TB usable capacity. Hyperconverged is a scale out solution and customer can increase the storage capacity exponentially by adding nodes based on the capacity requirements. If yes, request to include HCI as option 2 with below minimum specifications: 1. The HCI solution must be configured with at least 220 cores of latest Intel skylake 2.3GHz processor . Each HCI node must be configured with at least 256GB DDR4 memory scalable to 1024GB. Solution should be provided with 10% additional cores to suffice the HCI overheads. 2. The Hyperconverged solution should be proposed with minimum 75TB usable on SAS 10K drives without considering any data saving techniques. The solution should be provided on RF2. Should provide inline deduplication & compression across capacity teir. 3. HCI Data Nodes should be on a non-shared architecture in a 2U Rack server form Factor. 4. The HCI solution should include minimum 2* 24 port	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

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						40G port Network switches for inter node connectivity with necessary 4*10 GbE uplink per switch. 5. The proposed HCI solution should be able to leverage SSD for caching to optimized read / write IOPS .Minimum 1.6TB SSD should be provided with each Data nodes within the solution. 6. All licenses should be included for maximum memory & capacity expansion with the provided Nodes from day1. 7. Proposed HCI vendor should be leader in latest Garter Magic Quadrant including Server & Hypervisor vendor.	
520.	Section 6.7.2	Unified storage with SAN Switch (75TB for Video and Application Data)	137	II	Unified storage with SAN Switch (75TB for Video and Application Data)	Addition Requested as Option 2 Remarks: Request to confirm if MSI can quote **Hyperconvered solution** to provide 75TB usable capacity. Hyperconverged is a scale out solution and customer can increase the storage capacity exponentially by adding nodes based on the capacity requirements. If yes, request to include HCI as option 2 with below minimum specifications: 1. The HCI solution must be configured with at least 220 cores of latest Intel skylake 2.3GHz processor . Each HCI node must be configured with at least 256GB DDR4 memory scalable to 1024GB. Solution should be provided with 10% additional cores to suffice the HCI overheads. 2. The Hyperconverged solution should be proposed with minimum 75TB usable on SAS 10K drives without considering any data saving techniques. The solution should be provided on RF2. Should provide inline deduplication & compression across capacity teir. 3. HCI Data Nodes should be on a non-shared architecture in a 2U Rack server form Factor. 4. The HCI solution should include minimum 2* 24 port 40G port Network switches for inter node connectivity with necessary 4*10 GbE uplink per switch. 5. The proposed HCI solution should be able to leverage SSD for caching to optimized read / write IOPS .Minimum 1.6TB SSD should be provided with each Data nodes within the solution. 6. All licenses should be included for maximum memory & capacity expansion with the provided Nodes from day1. 7. Proposed HCI vendor should be leader in latest Garter Magic Quadrant including Server & Hypervisor vendor.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
521.	Section 6.7	Unified Storage with San Switch (75 TB for Video	137	II	Unifed storage with SAN Switch for Video and other application data	We reqeust ASCL to modify this to **SAN all Flash storage.** Justification:	**Clarification:** Tender conditions shall prevail

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		and Application Data)				As the on premise storage in Option-2 is SAN, it would be seemless for OEM to establish the replication/cloud data exchange natively having same type of protocols like SAN as comapred to having Unified and that will also help in reducing CAPEX/OPEX for the project.	
522.	Section 6.7	Unified Storage with San Switch (75 TB for Video and Application Data)	137	II	Unifed storage with SAN Switch for Video and other application data	We reqeust ASCL to modify this to **SAN all Flash storage.** Justification: As the on premise storage in Option-2 is SAN, it would be seemless for OEM to establish the replication/cloud data exchange natively having same type of protocols like SAN as comapred to having Unified and that will also help in reducing CAPEX/OPEX for the project.	**Clarification:** Tender conditions shall prevail
523.	Section 6.7.7	Blade Chassis with Switch and virtual KVM	144	II	To Add	OEM of the proposed solution should be listed in Leaders Quadrant of Gartner's latest report for modular servers Remarks: Request to include the Gartner quadrant to allow vendors offering enterprise level solution and reliable products.	**Clarification:** Tender conditions shall prevail
524.	Section 6.7.7	Blade Chassis with Switch and virtual KVM	144	II	To Add	Management software should be able to integrate with data center, hybrid cloud platforms and services to securely deploy and manage infrastructure resources across the data center and multiple edge locations. Should be able to track and manage firmware versions across all connected servers along with customizable dashboard. Remarks: Central Management is very much required for ease of management not just for datacenter but also for servers which are located at multiple edge locations/ Sites. Request to include.	**Clarification:** Tender conditions shall prevail
525.	Section 6.7.7	Blade Chassis with Switch and virtual KVM	144	II	To Add	OEM of the proposed solution should be listed in Leaders Quadrant of Gartner's latest report for modular servers Remarks: Request to include the Gartner quadrant to allow vendors offering enterprise level solution and reliable products.	**Clarification:** Tender conditions shall prevail
526.	Section 6.7.7	Blade Chassis with Switch and virtual KVM	144	II	To Add	Management software should be able to integrate with data center, hybrid cloud platforms and services to securely deploy and manage infrastructure resources across the data center and multiple edge locations. Should be able to track and manage firmware versions across all connected servers along with customizable dashboard. Remarks: Central Management is very much required for ease of	**Clarification:** Tender conditions shall prevail

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						management not just for datacenter but also for servers which are located at multiple edge locations/ Sites. Request to include.	
527.	Section 6.7.8	Internet Router - Point No. 2	145	II	The router shall support following interface: Gigabit Ethernet, STM1, STM16, STM64, 10G Ethernet, POS, E1, Channelized E1,	As on date with all the OEMS providing the Ethernet interfaces and the future is Ethernet base on 1G , 10 G interfaces so request you to relax on the legacy interfaces **(STM1, STM16, STM64, POS, E1 and Channelized E1)** which limits the leaders to qualify on the product .	**Clause Amended as:** Please refer to the Corrigendum
528.	Section 6.7.8	Internet Router - Point No. 2	145	II	The router shall support following interface: Gigabit Ethernet, STM1, STM16, STM64, 10G Ethernet, POS, E1, Channelized E1,	As on date with all the OEMS providing the Ethernet interfaces and the future is Ethernet base on 1G , 10 G interfaces so request you to relax on the legacy interfaces **(STM1, STM16, STM64, POS, E1 and Channelized E1)** which limits the leaders to qualify on the product .	**Clause Amended as:** Please refer to the Corrigendum
529.	Section 6.7.8	Internet Router - Point No. 18	146	II	**Security features:** The router shall support for hardware enabled Network Address Translation (NAT) and Port Address Translation (PAT). The router shall support NAT6to4 function & vrf- aware NAT function.	Request to amend it as "The router shall support for hardware enabled Network Address Translation (NAT) and Port Address Translation (PAT). The router shall support NAT6to4 function & vrf- aware NAT function **and Deep packet inspection capability**" Remarks: Deep packet inspection is kind of filtering technology which filter the data sent over the network and block, re-route or logg them accordignly. Internet is prime source of malicious data hence internet router should have DPI functionality	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
530.	Section 6.7.8	Internet Router - Point No. 11	146	II	Performance: The router shall support minimum 768K IPv4 & IPv6 routes from day one (1) in FIB in future	Request to amend as" The router shall support minimum 768K IPv4 & IPv6 routes from day one (1) and f**uture scalability to supprt 2M in future**" Remarks: Route scale is equally important of Router throughout from scale perspective.	**Clarification:** Tender conditions shall prevail
531.	Section 6.7.8	NA	146	II	New Addition	The Router shall be minimum EAL2 / Applicable Protection Profile (NDPP) certified under the Common Criteria Evaluation Program. Remarks: This is common certification for network devices from security perspective.	**Clarification:** Tender conditions shall prevail
532.	Section 6.7.8	Internet Router - Point No. 18	146	II	**Security features:** The router shall support for hardware enabled Network Address Translation (NAT) and Port Address Translation (PAT). The router shall support NAT6to4 function & vrf- aware NAT function.	Request to amend it as "The router shall support for hardware enabled Network Address Translation (NAT) and Port Address Translation (PAT). The router shall support NAT6to4 function & vrf- aware NAT function and **Deep packet inspection capability**" Remarks: Deep packet inspection is kind of filtering technology which filter the data sent over the network and block, re-route or logg them accordignly. Internet is prime source	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					of malicious data hence internet router should have DPI functionality		
533.	Section 6.7.8	Internet Router - Point No. 11	146	II	Performance: The router shall support minimum 768K IPv4 & IPv6 routes from day one (1) in FIB in future	Request to amend as" The router shall support minimum 768K IPv4 & IPv6 routes from day one (1) and future scalability to supprt 2M in future" Remarks: Route scale is equally important of Router throughout from scale perspective.	**Clarification:** Tender conditions shall prevail
534.	Section 6.7.8	Internet Router	146	II	New Addition	The Router shall be minimum EAL2 / Applicable Protection Profile (NDPP) certified under the Common Criteria Evaluation Program. Remarks: This is common certification for network devices from security perspective.	**Clarification:** Tender conditions shall prevail
535.	Section 6.7.9	Core Router - Point No. 5	147	II	The router shall support following type of interfaces – 10GE and 1GE interfaces.	Request to amend the clause as " The router shall support following type of interfaces – 10GE , 1GE, **STM-1, STM-4/STM-16 and OC-3 interfaces**." Remarks: Router Should support variety of interface for future proof hardware.	**Clause Amended as:** Please refer to the Corrigendum
536.	Section 6.7.9	Core Router - Point No. 1	147	II	Router should have redundant controller cards (redundant control plane) and should support stateful switchover, non-stop forwarding, Non-stop routing and Graceful restart.	request to amend the clause as" Router should have redundant controller cards (**redundant control & Data plane**) and should support stateful switchover, non-stop forwarding, Non-stop routing and Graceful restart. Remarks: Redundnacy should be there for both Control & Data plane" other wise failure of either plane will lead to failure of Router. So request kindly consider redundancy for both the plane.	**Clause Amended as:** Please refer to the Corrigendum
537.	Section 6.7.9	Core Router - Point No. 5	147	II	The router shall support following type of interfaces – 10GE and 1GE interfaces.	Request to amend the clause as " The router shall support following type of interfaces – 10GE , 1GE, **STM-1, STM-4/STM-16 and OC-3 interfaces**." Remarks: Router Should support variety of interface for future proof hardware.	**Clause Amended as:** Please refer to the Corrigendum
538.	Section 6.7.9	Core Router - Point No. 1	147	II	Router should have redundant controller cards (redundant control plane) and should support stateful switchover, non-stop forwarding, Non-stop routing and Graceful restart.	request to amend the clause as" Router should have redundant controller cards (**redundant control & Data plane)** and should support stateful switchover, non-stop forwarding, Non-stop routing and Graceful restart. Remarks: Redundnacy should be there for both Control & Data plane" other wise failure of either plane will lead to failure of Router. So request kindly consider redundancy for both the plane.	**Clause Amended as:** Please refer to the Corrigendum
539.	Section 6.7.9	Core Router - Point No. 2	147	II	Router should be CE2.0/MEF14.0 certified/ compliant	The router will be installed at the DC and will not participate in a Metro Ethernet Network hence CE2.0/MEF14.0 certification is not required. Request	**Clarification:** Tender conditions shall prevail

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						you Please remove the clause. So that leaders can participate.	
540.	Section 6.7.9	Core Router - Point No. 3	147	II	Router shall support MEF for Ethernet based services like PW, VPLS or ATOM.	The router will be installed at the DC and will not participate in a Metro Ethernet Network hence MEF for Ethernet based services like PW, VPLS or ATOM. is not required. Request you Please remove the clause. So that leaders can participate.	**Clarification:** Tender conditions shall prevail
541.	Section 6.7.9	Core Router - Point No. 2	147	II	Router should be CE2.0/MEF14.0 certified/ compliant	The router will be installed at the DC and will not participate in a Metro Ethernet Network hence CE2.0/MEF14.0 certification is not required. Request you Please remove the clause. So that leaders can participate.	**Clarification:** Tender conditions shall prevail
542.	Section 6.7.9	Core Router - Point No. 3	147	II	Router shall support MEF for Ethernet based services like PW, VPLS or ATOM.	The router will be installed at the DC and will not participate in a Metro Ethernet Network hence MEF for Ethernet based services like PW, VPLS or ATOM. is not required. Request you Please remove the clause. So that leaders can participate.	**Clarification:** Tender conditions shall prevail
543.	Section 6.7.9	Core Router	148	II	Protocol Support: Request to add	Request to add " Segment Routing & SR-TE feature" Remarks: This is latest technology for software defined networking and important for MPLS network where both IPv4 & IPv6 taffic need to travel.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
544.	Section 6.7.10	Core Router - Point No.	148	II	Interfaces	Request to add: Router shall have atleast 2 slots free for future scale Remarks: Additonal slots will provide future proof or scalable solution. If Amritsar City plans their own city network in future then same router can be used by just populating the extra interface cards without changing the Router.	**Clarification:** Tender conditions shall prevail
545.	Section 6.7.11	Core Router - Point No.	148	II	Interfaces: 4x10G ports populated with minimum 2 X multimode transceiver and 1x10G SM transceiver	Request to amend the clause as: 4x10G ports populated with minimum 2 X **10G multimode transceiver** and 1x10G SM transceiver and 4x10G for future scale" Remarks: Additional 4x 10G interface support should be there for future scale.	**Clause Amended as:** Please refer to the Corrigendum
546.	Section 6.7.9	Core Router - Point No. 18	148	II	Router shall support IPV4 and IPV6, IGMP V2/V3, Multicast Listener Discovery, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4, ECMP, LDP, BGP Prefix independent control (EDGE and Core) for IPV4 and IPV6, BGP, ISIS, OSPFv2 and V3, RSVP, VRRP and Traffic Engineering	**The 6PE & 6VPE mode** are OEM specific hence asked for equivalent technology which will give same functionality. Request you to kindly change this clause as " Router shall support IPV4 and IPV6, IGMP V2/V3, MLD, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4 **or equivalent ,**ECMP, LDP, BGP Prefix independent control (EDGE and Core) or equivalent for IPV4 and IPV6, BGP, ISIS, OSPFv2 and V3, RSVP, VRRP and Traffic Engineering" So that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
547.	Section 6.7.9	Core Router - Point No. 19	148	II	Router shall support IPV4 and IPV6, IGMP V2/V3, Multicast Listener Discovery, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4, ECMP, LDP, BGP Prefix independent control (EDGE and Core) for IPV4 and IPV6, BGP, ISIS, OSPFv2 and V3, RSVP, VRRP and Traffic Engineering	**The 6PE & 6VPE** mode are OEM specific hence asked for equivalent technology which will give same functionality. Request you to kindly change this clause as " Router shall support IPV4 and IPV6, IGMP V2/V3, MLD, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4 **or equivalent** ,ECMP, LDP, BGP Prefix independent control (EDGE and Core) or equivalent for IPV4 and IPV6, BGP, ISIS, OSPFv2 and V3, RSVP, VRRP and Traffic Engineering" So that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
548.	Section 6.7.9	Core Router - Point No. 18	148	II	Router shall support IPV4 and IPV6, IGMP V2/V3, Multicast Listener Discovery, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4, ECMP, LDP, BGP Prefix independent control (EDGE and Core) for IPV4 and IPV6, BGP, ISIS, OSPFv2 and V3, RSVP, VRRP and Traffic Engineering	**The 6PE & 6VPE** mode are OEM specific hence asked for equivalent technology which will give same functionality. Request you to kindly change this clause as " Router shall support IPV4 and IPV6, IGMP V2/V3, MLD, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4 **or equivalent** ,ECMP, LDP, BGP Prefix independent control (EDGE and Core) or equivalent for IPV4 and IPV6, BGP, ISIS, OSPFv2 and V3, RSVP, VRRP and Traffic Engineering" So that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
549.	Section 6.7.9	Core Router - Point No. 18	148	II	Router shall support IPV4 and IPV6, IGMP V2/V3, Multicast Listener Discovery, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4, ECMP, LDP, BGP Prefix independent control (EDGE and Core) for IPV4 and IPV6, BGP, ISIS, OSPFv2 and V3, RSVP, VRRP and Traffic Engineering	**The 6PE & 6VPE** mode are OEM specific hence asked for equivalent technology which will give same functionality. Request you to kindly change this clause as " Router shall support IPV4 and IPV6, IGMP V2/V3, MLD, IGMP and PIM, 6PE and 6VPE mode for IPV6 transport over IPV4 **or equivalent** ,ECMP, LDP, BGP Prefix independent control (EDGE and Core) or equivalent for IPV4 and IPV6, BGP, ISIS, OSPFv2 and V3, RSVP, VRRP and Traffic Engineering" So that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
550.	Section 6.7.9	Core Router - Point No. 30	149	II	30: Interfaces	Request to add: Router shall have atleast 2 slots free for future scale Remarks: Additonal slots will provide future proof or scalable solution. If Amritsar City plans their own city network in future then same router can be used by just populating the extra interface cards without changing the Router.	**Clarification:** Tender conditions shall prevail
551.	Section 6.7.9	Core Router - Point No. 30	149	II	Interfaces: 4x10G ports populated with minimum 2 X multimode transceiver and 1x10G SM transceiver	Request to amend the clause as: 4x10G ports populated with minimum 2 X **10G** multimode transceiver and 1x10G SM transceiver and 4x10G for future scale" Remarks: Additional 4x 10G interface support should be there for future scale.	**Clause Amended as:** Please refer to the Corrigendum

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552.	Section 6.7.10	Spine Switch	149	II	The core/spine layer switches should have hardware level redundancy (1+1) in terms of data plane and control plane. Issues with any of the plane should not impact the functioning of the switch.	The Core/Spine layer switches should have 1+1 power supply **& fan level** redundancy. Failure of any one should not impact the performance of switch Justification: CLOS recommended fixed format switches for Spine/Leaf architecture. It is hence suggested to amend the clause.	**Clarification:** Tender conditions shall prevail
553.	Section 6.7.10	Spine Switch	149	II	The switch should have redundant CPUs working in active-active or active-standby mode. CPU fail over/change over should not disrupt/impact/degrade the functioning the switch.	Two or more spine switches should be proposed in active-active config. Failure of any one spine switch should not impact the performance of entire fabric Justification: CLOS recommended fixed format switches for Spine/Leaf architecture. It is hence suggested to amend the clause.	**Clarification:** Tender conditions shall prevail
554.	Section 6.7.10	Spine Switch	149	II	Switch should support for different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/LAG etc.	Switch should support for different logical interface types like loopback, VLAN, Port Aggregation, multi chassis port channel/LAG etc. Justification: SVI, Port Channel are vendor specific terms. Kindly specify IEEE standard protocols for required function	**Clause Amended as:** Please refer to the Corrigendum
555.	Section 6.7.10	Spine Switch	149	II	The switch should support 768K IPv4 routes or above	The switch should support 128K IPv4 routes or above Justification: asked figure is too high when recommended for fixed format Spine switches. CLOS architecture is itself highly scalable, hence mentioning figures for invidual switch doesn't matter	**Clause Amended as:** Please refer to the Corrigendum
556.	Section 6.7.10	Spine Switch	149	II	Switch should support total aggregate minimum 8Tbps minimum of switching capacity considering future scalability	Switch should support total aggregate minimum 6.4Tbps minimum of switching capacity considering future scalability Justification: for the asked port densities, it is requested to amend the clause to have economical benefit & better RoI	**Clause Amended as:** Please refer to the Corrigendum
557.	Section 6.7.10	Spine Switch	149	II	Switch should have min buffer of 80MB	Switch should have min 40MB buffer Justification: For fixed format spine switch, 40MB is standard across major vendors. Pls accept the change	**Clause Amended as:** Please refer to the Corrigendum
558.	Section 6.7.10	Spine Switch - Point No. 12	150	II	The switch should support 768KIPv4 routes or above	The mentioned requirement for 768K IPv4 routes are to high, As per general deployment scenarios not more then 100K IPv4 routes are required, Hence request you to please change this to " The switch should support **200K IPv4** routes or above" So that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
559.	Section 6.7.10	Spine Switch - Point No. 12	150	II	The switch should support 768KIPv4 routes or above	The mentioned requirement for 768K IPv4 routes are to high, As per general deployment scenarios not more then 100K IPv4 routes are required, Hence request you to please change this to " The switch should support	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						200K IPv4 routes or above" So that leaders can participate.	
560.	Section 6.7.10	Spine Switch	150	II	The core/spine layer switches should have hardware level redundancy (1+1) in terms of data plane and control plane. Issues with any of the plane should not impact the functioning of the switch.	The Core/Spine layer switches should have 1+1 power supply & fan level redundancy. Failure of any one should not impact the performance of switch Justification: CLOS recommended fixed format switches for Spine/Leaf architecture. It is hence suggested to amend the clause.	**Clarification:** Tender conditions shall prevail
561.	Section 6.7.10	Spine Switch	150	II	The switch should have redundant CPUs working in active-active or active-standby mode. CPU fail over/change over should not disrupt/impact/degrade the functioning the switch.	Two or more spine switches should be proposed in active-active config. Failure of any one spine switch should not impact the performance of entire fabric Justification: CLOS recommended fixed format switches for Spine/Leaf architecture. It is hence suggested to amend the clause.	**Clarification:** Tender conditions shall prevail
562.	Section 6.7.10	Spine Switch	150	II	Switch should support for different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/LAG etc.	Switch should support for different logical interface types like loopback, VLAN, Port Aggregation, multi chassis port channel/LAG etc. Justification: SVI, Port Channel are vendor specific terms. Kindly specify IEEE standard protocols for required functionality.	**Clause Amended as:** Please refer to the Corrigendum
563.	Section 6.7.10	Spine Switch	150	II	The switch should support 768K IPv4 routes or above	The switch should support 128K IPv4 routes or above Justification: asked figure is too high when recommended for fixed format Spine switches. CLOS architecture is itself higly scalable, hence mentioning figures for invidual switch doesn't matter	**Clause Amended as:** Please refer to the Corrigendum
564.	Section 6.7.10	Spine Switch	150	II	Switch should support total aggregate minimum 8Tbps minimum of switching capacity considering future scalability	Switch should support total aggregate minimum 6.4Tbps minimum of switching capacity considering future scalability Justification: for the asked port densities, it is requested to amend the clause to have economical benefit & better RoI	**Clause Amended as:** Please refer to the Corrigendum
565.	Section 6.7.10	Spine Switch	150	II	Switch should have min buffer of 80MB	Switch should have min 40MB buffer Justification: For fixed format spine switch, 40MB is standard across major vendors. Pls accept the change	**Clause Amended as:** Please refer to the Corrigendum
566.	Section 6.7.11	Leaf (TOR) Switch - Point No. 8	151	II	Performance: The switch should support 12,000 IPv4 and IPv6 routes entries in the routing table including multicast routes	Request to amend as " The switch should support **1M IPv4 and IPv6 routes** entries in the routing table from" Remarks 12K Routes are very small number of routes from a data center switching perspective.	**Clarification:** Tender conditions shall prevail
567.	Section 6.7.12	Leaf (TOR) Switch - Point No. 8	151	II	Performance: The switch should support 12,000 IPv4 and IPv6 routes	Request to amend as " The switch should support **1M IPv4 and IPv6 routes** entries in the routing table from" Remarks:	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					entries in the routing table including multicast routes	12K Routes are very small number of routes from a data center switching perspective.	
568.	Section 6.7.11	Leaf (TOR) Switch - Point No. 6	151	II	Switch should support for different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/LAG etc.	**SVI** is OEM specific please remove the same . Request you to kindly modify this clause as "Switch should support for different logical interface types like loopback, VLAN, Port Channel, multi chassis port channel/Link Aggregation Group (LAG) etc"	**Clause Amended as:** Please refer to the Corrigendum
569.	Section 6.7.11	Leaf (TOR) Switch - Point No. 6	151	II	Switch should support for different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/LAG etc.	SVI is OEM specific please remove the same . Request you to kindly modify this clause as "Switch should support for different logical interface types like loopback, VLAN, Port Channel, multi chassis port channel/Link Aggregation Group (LAG) etc"	**Clause Amended as:** Please refer to the Corrigendum
570.	Section 6.7.11	Leaf (TOR) Switch	151	II	Switch should support for different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/LAG etc.	Switch should support for different logical interface types like loopback, VLAN, Port Aggregation, multi chassis port channel/LAG etc.Justification: SVI, Port Channel are vendor specific terms. Kindly specify IEEE standard protocols for required functionality.	**Clause Amended as:** Please refer to the Corrigendum
571.	Section 6.7.11	Leaf (TOR) Switch	151	II	Switch should support for different logical interface types like loopback, VLAN, SVI, Port Channel, multi chassis port channel/LAG etc.	Switch should support for different logical interface types like loopback, VLAN, Port Aggregation, multi chassis port channel/LAG etc. Justification: SVI, Port Channel are vendor specific terms. Kindly specify IEEE standard protocols for required function	**Clause Amended as:** Please refer to the Corrigendum
572.	Section 6.7.11	Leaf (TOR) Switch - Point No. 23	152	II	Switch should support Flow control of Ethernet ports to control traffic rates during congestion by allowing congested nodes to pause link operation at the other end for receiving traffic as per IEEE 802.3x and should have a minimum buffer of 20MB	Deep Buffer are required for animation & multi media application which is not the application used in Smart Cities hence deep buffer is not relevant. Request you to please change packet buffer size to "Switch should support Flow control of Ethernet ports to control traffic rates during congestion by allowing congested nodes to pause link operation at the other end for receiving traffic as per IEEE 802.3x **and should have a minimum buffer of 16MB**" so that leaders can participate.	**Clarification:** Tender conditions shall prevail
573.	Section 6.7.12	Leaf (TOR) Switch - Point No. 23	152	II	Switch should support Flow control of Ethernet ports to control traffic rates during congestion by allowing congested nodes to pause link operation at the other end for receiving traffic as per IEEE 802.3x and should have a minimum buffer of 20MB	Deep Buffer are required for animation & multi media application which is not the application used in Smart Cities hence deep buffer is not relevant. Request you to please change packet buffer size to "Switch should support Flow control of Ethernet ports to control traffic rates during congestion by allowing congested nodes to pause link operation at the other end for receiving traffic as per IEEE 802.3x **and should have a minimum buffer of 16MB"** so that leaders can participate.	**Clarification:** Tender conditions shall prevail
574.	Section 6.7.12	Fabric Manager - Point No. 9	153	II	Fabric: In the fabric the oversubscription ration of the connectivity between each leaf to SPINE switches should not be less than 4:1	Request to amend it as "In the fabric the oversubscription ration of the connectivity between each leaf to SPINE switches should not be less than 2.5:1"	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						Remarks: 4:1 subscripiton could be bottleneck for fabric bandwidth as	
575.	Section 6.7.12	Fabric Manager	153	II	Request to Add	Fabric must integrate with multiple Virtual Machine Managers (i.e. vCenter/SCVMM , OpenStack etc.) of different Hypervisors simultaneously Remarks: There could be multiple hypervisor in solution across DC & DR so request you to kindly consider fabirc manager with multiple hypervisor supports for interoperability with any vendor virtualization solution	**Clarification:** Tender conditions shall prevail
576.	Section 6.7.12	Fabric Manager	153	II	Request to Add	Fabric must integrate with multiple Virtual Machine Managers (i.e. vCenter/SCVMM , OpenStack etc.) of different Hypervisors simultaneously Remarks: There could be multiple hypervisor in solution across DC & DR so request you to kindly consider fabirc manager with multiple hypervisor supports for interoperability with any vendor virtualization solution	**Clarification:** Tender conditions shall prevail
577.	Section 6.7.12	Fabric Manager - Point No. 9	153	II	Fabric: In the fabric the oversubscription ration of the connectivity between each leaf to SPINE switches should not be less than 4:1	Request to amend it as "In the fabric the oversubscription ration of the connectivity between each leaf to SPINE switches should not be less than 2.5:1" Remarks: 4:1 subscripiton could be bottleneck for fabric bandwidth as	**Clause Amended as:** Please refer to the Corrigendum
578.	Section 6.7.12	Fabric Manager	153	II	Fabric is the Clos Architecture defined using Spine, Leaf and VXLAN + ISIS or VXLAN + EVPN Protocol.	Fabric is the Clos Architecture defined using Spine, Leaf and VXLAN + ISIS or VXLAN + EVPN Protocol **or equivalent** standard technology Justification: Major OEM design CLOS fabric using standard based protocols. It is restrictive to mention specific protocol to support CLOS fabric creation. Pls add equivalent to allow us to participate.	**Clause Amended as:** Please refer to the Corrigendum
579.	Section 6.7.12	Fabric Manager	153	II	Fabric is the Clos Architecture defined using Spine, Leaf and VXLAN + ISIS or VXLAN + EVPN Protocol.	Fabric is the Clos Architecture defined using Spine, Leaf and VXLAN + ISIS or VXLAN + EVPN Protocol **or equivalent standard technology** Justification: Major OEM design CLOS fabric using standard based protocols. It is restrictive to mention specific protocol to support CLOS fabric creation. Pls add equivalent to allow us to participate.	**Clause Amended as:** Please refer to the Corrigendum
580.	Section 6.7.12	Fabric Manager	153	II	Centralized management appliance or SDN controller must manage and provision L4-L7 services physical or virtual appliance as well as integrate with virtual machine manager	Centralized management appliance or SDN controller must **interate** with L4-L7 services physical or virtual appliance as well as integrate with virtual machine manager Justification: Pls amend the clause	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
581.	Section 6.7.12	Fabric Manager	153	II	Centralized management appliance or SDN controller must manage and provision L4-L7 services physical or virtual appliance as well as integrate with virtual machine manager	Centralized management appliance or SDN controller must interate with L4-L7 services physical or virtual appliance as well as integrate with virtual machine manager Justification: Pls amend the clause	**Clarification:** Tender conditions shall prevail
582.	Section 6.7.12	Fabric Manager - Point No. 22	154	II	Fabric must be capable of connecting 50 physical servers and scale to 500 physical servers.	request to amend the clause as" Fabric must be capable of connecting 50 physical servers and scale to 500 physical servers **without requiring any additional host based license cost**" Remarks: There should not be any additionla cost of scaling the fabric. Else should not be any cost on host to scale the network	**Clarification:** Tender conditions shall prevail
583.	Section 6.7.12	Fabric Manager - Point No. 22	154	II	Fabric must be capable of connecting 50 physical servers and scale to 500 physical servers.	request to amend the clause as" Fabric must be capable of connecting 50 physical servers and scale to 500 physical servers **without requiring any additional host based license cost"** Remarks: There should not be any additionla cost of scaling the fabric. Else should not be any cost on host to scale the network	**Clarification:** Tender conditions shall prevail
584.	Section 6.7.13	Internet Firewall - Point No. 2	155	II	The appliance should have minimum 8x1/10G port switch multi-mode transceiver from day one	As per our understanding these 8x1/10G port should operate on both 1G & 10G speed as required . Kindly confirm. Also the clause should be read as " The appliance should have minimum 8x1/10G Port from day one with **2x1G Multi mode transceiver, 2x1G Copper and 4x10G SR transceive and same hardware shall be scalable to support 4x10G in future"** Remarks: Already City need 800Mbps minimum Internet bandwidth at present and will increase in proportion of city urban service. Also, the backened network connectivity will be on 10G to Leaf switches as asked in specs. 4x10G Scalability is required as current asked ports wil be fully utilized as per below. For DMZ zone atleast 2x1G or 10G Ports are required, 2x10G are required for leaf connectivity , 2x10G are required for HA and 2x1G required for ISP connectivity	**Clarification:** Tender conditions shall prevail
585.	Section 6.7.13	Internet Firewall - Point No. 7	155	II	Firewall should support at least 25,000 connections per second with application visibility turned on	Request to amend the clause as" Firewall should support at least **24000 connections** per second with application visibility turned on" Remarks: For asked throughput and as per population of Amritsar 20K connection per second is more then sufficient considering future scale . So request kindly accept.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
586.	Section 6.7.14	Internet Firewall - Point No. 2	155	II	The appliance should have minimum 8x1/10G port switch multi-mode transceiver from day one	As per our understanding these 8x1/10G port should operate on both 1G & 10G speed as required . Kindly confirm. Also the clause should be read as " The appliance should have minimum 8x1/10G Port from day one **with 2x1G Multi mode transceiver, 2x1G Copper and 4x10G SR transceive and same hardware shall be scalable to support 4x10G in future"** Remarks: Already City need 800Mbps minimum Internet bandwidth at present and will increase in proportion of city urban service. Also, the backeend network connectivity will be on 10G to Leaf switches as asked in specs. 4x10G Scalability is required as current asked ports wil be fully utilized as per below. For DMZ zone atleast 2x1G or 10G Ports are required, 2x10G are required for leaf connectivity , 2x10G are required for HA and 2x1G required for ISP connectivity	**Clarification:** Tender conditions shall prevail
587.	Section 6.7.15	Internet Firewall - Point No. 7	155	II	Firewall should support at least 25,000 connections per second with application visibility turned on	Request to amend the clause as" Firewall should support at least 24000 connections per second with application visibility turned on" Remarks For asked throughput and as per population of Amritsar 20K connection per second is more then sufficient considering future scale . So request kindly accept.	**Clarification:** Tender conditions shall prevail
588.	Section 6.7.13	Internet Firewall - Point No. 4	155	II	Proposed Firewall should not be proprietary ASIC based in nature & should be open architecture based on multi-core Cpu's to protect & scale against dynamic latest security threats.	Every OEM has their own architecture and patent based unique solution. Proprietary / Customised based solution is used to radically boost the performance and scalability to enable the fastest network security appliance available. And the solution may use ASIC / Single Pass Architecture etc. **Request to please remove such statement i.e. ASIC** . and modify the clause to **"Proposed Firewall should be open architecture based on multi-core cpu's to protect & scale against dynamic latest security threats."** as this will debar a Gartner Leader Firewall OEM to participate	**Clause Amended as:** Please refer to the Corrigendum
589.	Section 6.7.13	Internet Firewall - Point No. 5	155	II	Solution should support minimum 4 Gbps of NGFW / Threat Prevention real-world / production performance	Please clarify if only NGFW (FW+AVC+IPS) performance parameter is required or the solution to be proposed with Threat Prevention (FW+AVC+IPS+Antivirus/Antimalaware) performance to be proposed. **Also considering the scalability, request to revise the clause to "Solution should support minimum 10 Gbps of Threat Prevention performance on real-world / production performance "**	**Clarification:** Tender conditions shall prevail

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590.	Section 6.7.13	Internet Firewall - Point No. 6	155	II	Firewall should support at least 18,00,000 concurrent sessions with application visibility turned on	Kindly **remove "with AVC feature turned on "** This parameter is specific to only one OEM". Considering Number of users/citizen going to access this Network , Firewall need to have large session handling capability and **Requesting you to revise the clause to "Firewall should support at least 40 Million concurrent sessions"**	**Clause Amended as:** Please refer to the Corrigendum
591.	Section 6.7.13	Internet Firewall - Point No. 7	155	II	Firewall should support at least 25,000 connections per second with application visibility turned on	Kindly **remove "with AVC feature turned on "** This parameter is specific to only one OEM". Considering Number of users/citizen going to access this Network , Firewall need to have large session handling capability **Requesting you to revise the clause to "Firewall should support at least 380,000 connections per second"**	**Clause Amended as:** Please refer to the Corrigendum
592.	Section 6.7.13	Internet Firewall - Point No.12	155	II	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6- to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	It is suggested to **include DNS64 and and DHCPv6** along with NAT66 and NAT64 for a complete IPv6 functionality. Having NAT66 and NAT64 without support for DNS64 and DHCPv6, it will be a incomplete solution to cater to IPv6 requirement. **Requesting to change as:Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4), Nat46 (IPv4-to-IPv6), DNS64 and DHCPv6 functionality**	**Clarification:** Tender conditions shall prevail
593.	Section 6.7.13	Internet Firewall - Point No. 4	155	II	Proposed Firewall should not be proprietary ASIC based in nature & should be open architecture based on multi-core Cpu's to protect & scale against dynamic latest security threats.	Every OEM has their own architecture and patent based unique solution. Proprietary / Customised based solution is used to radically boost the performance and scalability to enable the fastest network security appliance available. And the solution may use ASIC / Single Pass Architecture etc. **Request to please remove such statement i.e. ASIC** . and modify the clause to **"Proposed Firewall should be open architecture based on multi-core cpu's to protect & scale against dynamic latest security threats."** as this will debar a Gartner Leader Firewall OEM to participate	**Clause Amended as:** Please refer to the Corrigendum
594.	Section 6.7.13	Internet Firewall - Point No. 5	155	II	Solution should support minimum 4 Gbps of NGFW / Threat Prevention real-world / production performance	Please clarify if only NGFW (FW+AVC+IPS) performance parameter is required or the solution to be proposed with Threat Prevention (FW+AVC+IPS+Antivirus/Antimalaware) performance to be proposed. **Also considering the scalability, request to revise the clause to "Solution should support minimum 10 Gbps of Threat Prevention performance on real-world / production performance "**	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
595.	Section 6.7.13	Internet Firewall - Point No. 6	155	II	Firewall should support at least 18,00,000 concurrent sessions with application visibility turned on	Kindly **remove "with AVC feature turned on "** " This parameter is specific to only one OEM". Considering Number of users/citizen going to access this Network , Firewall need to have large session handling capability and **Requesting you to revise the clause to "Firewall should support at least 40 Million concurrent sessions"**	**Clause Amended as:** Please refer to the Corrigendum
596.	Section 6.7.13	Internet Firewall - Point No. 7	155	II	Firewall should support at least 25,000 connections per second with application visibility turned on	Kindly **remove "with AVC feature turned on "** " This parameter is specific to only one OEM". Considering Number of users/citizen going to access this Network , Firewall need to have large session handling capability **Requesting you to revise the clause to "Firewall should support at least 380,000 connections per second"**	**Clause Amended as:** Please refer to the Corrigendum
597.	Section 6.7.13	Internet Firewall - Point No.12	155	II	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6- to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	It is suggested to include DNS64 and and DHCPv6 along with NAT66 and NAT64 for a complete IPv6 functionality. Having NAT66 and NAT64 without support for DNS64 and DHCPv6, it will be a incomplete solution to cater to IPv6 requirement. **Requesting to change as:Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4), Nat46 (IPv4-to-IPv6), DNS64 and DHCPv6 functionality**	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
598.	Section 6.7.13	Internet Firewall/Hardware Architecture	155	II	The Appliance should have minimum 8 x 1/10G port switch multi-mode transceiver from day one.	in the proposed DC solution Architecture we can see project is indeed using 40 Gbps but in firewall no ports has been asked neither support, we request you to ask **"The Appliance should have minimum 8 x 1/10G port switch multi-mode transceiver from day one and must support at least 2 x 40G port in near future without changing the device.**	**Clarification:** Tender conditions shall prevail
599.	Section 6.7.13	Internet Firewall/Hardware Architecture	155	II	Solution should support minimum 4 Gbps of NGFW / Threat Prevention real world / production performance.	Smart city project is looking for scalability which is asked in point number 4 under 6.7.13 Internet Firewall requirement , we suggest that security device must have scalability option. Please ask **"Solution should support minimum 4 Gbps of NGFW / Threat Prevention real world / production performance throughput and must have option to scalae up to more than 7 Gbps in same device from Day one."**	**Clarification:** Tender conditions shall prevail
600.	Section 6.7.13	Internet Firewall - Point No. 7	155	II	Firewall should support at least 25,000 connection per second with application visibility turned on	Ask connectio per second is very less, as smart city project is going completely degital, every user and system will be connected through internet and most of them will be below firewall and passing the connection through the firewall it self and theiris no scalability option is asked, because what industry standard says is every user generate minimum 10 new connection per	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						second and asked value is 25,000 only which meanssmartr city is looking only with user capability 2500 but what we believe is going to be much more than this. we suggest that**"Firewall should support** at least 150,000 **connection per second with application visibility turned on** and must be having scalability up to 200,00 connection per second from day one**."**	
601.	Section 6.7.13	Internet Firewall - Point No. 2	155	II	The Appliance should have minimum 8 x 1/10G port switch multi-mode transceiver from day one.	in the proposed DC solution Architecture we can see project is indeed using 40 Gbps but in firewall no ports has been asked neither support, we request you to ask **"The Appliance should have minimum 8 x 1/10G port switch multi-mode transceiver from day one and must support at least 2 x 40G port in near future without changing the device.**	**Clarification:** Tender conditions shall prevail
602.	Section 6.7.13	Internet Firewall - Point No. 5	155	II	Solution should support minimum 4 Gbps of NGFW / Threat Prevention real world / production performance.	Smart city project is looking for scalability which is asked in point number 4 under 6.7.13 Internet Firewall , we suggest that security device must have scalability option. Please ask **"Solution should support minimum 4 Gbps of NGFW / Threat Prevention real world / production performance t**hroughput and must have option to scalae up to more than 7 Gbps in same device from Day one."	**Clarification:** Tender conditions shall prevail
603.	Section 6.7.13	Internet Firewall - Point No. 7	155	II	Firewall should support at least 25,000 connection per second with application visibility turned on	Ask connectio per second is very less, as smart city project is going completely degital, every user and system will be connected through internet and most of them will be below firewall and passing the connection through the firewall it self and theiris no scalability option is asked, because what industry standard says is every user generate minimum 10 new connection per second and asked value is 25,000 only which meanssmartr city is looking only with user capability 2500 but what we believe is going to be much more than this. we suggest that**"Firewall should support at least** 150,000 connection **per second with application visibility turned on and must be having scalability up to 2**00,00 connection per second from day one."	**Clause Amended as:** Please refer to the Corrigendum
604.	Section 6.7.13	Internet Firewall	155	II	New Point	Please ask "The Proposed solution must have minimum 1000 GB HDD for log storage in Raid 1 option**."** Asking this storage on firewall device will help smart city to store logs on the device it self during when management device is not accessible due to any reasong like connectivity problem or power surge on the management device. asking storage will give redundancy for log storing in this project because smart city project is looking for redundancy option in power supply and in FAN than why not to have storage also redundant.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
605.	Section 6.7.13	Internet Firewall	155	II	New Point	Please ask **"The Proposed NGFW device must support virtual context from day one."** Having virtual firewall will help smart city project to use same firewall hardware device to run multiple instance as in when required in future and will be managed by same management which is going to manage NGFW device.	**Clarification:** Tender conditions shall prevail
606.	Section 6.7.13	Internet Firewall - Point No. 17	156	II	Should support more than 4000 (excluding custom signatures) IPS signatures or more	Request to amend as "Should support more than **10,000+** (excluding custom signatures) IPS signatures or more" Remarks: The effectiveness of IPS is depned on signature's as more number of signature more number of & faster attack/malicious detection. So request please increase the number of IPS signature to better security.	**Clarification:** Tender conditions shall prevail
607.	Section 6.7.13	Internet Firewall - Point No. 17	156	II	Should support more than 4000 (excluding custom signatures) IPS signatures or more	Request to amend as "Should support more than 10,000+ (excluding custom signatures) IPS signatures or more" Remarks: The effectiveness of IPS is depned on signature's as more number of signature more number of & faster attack/malicious detection. So request please increase the number of IPS signature to better security.	**Clarification:** Tender conditions shall prevail
608.	Section 6.7.13	Internet Firewall - Point No.24	156	II	Solution shall have capability to analyse and block TCP/UDP protocol to identify attacks and malware communications. At minimum, the following protocols are supported for real-time inspection, blocking and control of download files: HTTP, SMTP, POP3, IMAP, and FTP	Today 80% of traffic is encryted/SSL hance request you please revice the clause to **"Solution shall have capability to analyse and block TCP/UDP protocol to identify attacks, viruses and malware communications. At minimum, the following protocols are supported for real-time inspection, blocking and control of download files: HTTP,HTTPS, SMTP,SMTPs, POP3,POP3S, IMAP,IMAPs and FTP, FTPs.**	**Clause Amended as:** Please refer to the Corrigendum
609.	Section 6.7.13	Internet Firewall - Point No.27	156	II	Should support Open based Application ID for access to community resources and ability to easily customize security to address new and specific threats and applications quickly	Kindly remove "Open based Application ID " This parameter is specific to only one OEM" **Requesting you to revise th clause to "Should support Custom Application Signature and ability to easily customize security to address new and specific threats and applications quickly "**	**Clause Amended as:** Please refer to the Corrigendum
610.	Section 6.7.13	Internet Firewall - Point No.24	156	II	Solution shall have capability to analyse and block TCP/UDP protocol to identify attacks and malware communications. At minimum, the following protocols are supported for real-time inspection, blocking and control of download files: HTTP, SMTP, POP3, IMAP, and FTP	Today 80% of traffic is encryted/SSL hance request you please revice the clause to **"Solution shall have capability to analyse and block TCP/UDP protocol to identify attacks, viruses and malware communications. At minimum, the following protocols are supported for real-time inspection, blocking and control of download files: HTTP,HTTPS, SMTP,SMTPs, POP3,POP3S, IMAP,IMAPs and FTP, FTPs.**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
611.	Section 6.7.13	Internet Firewall - Point No.27	156	II	Should support Open based Application ID for access to community resources and ability to easily customize security to address new and specific threats and applications quickly	Kindly remove "Open based Application ID " This parameter is specific to only one OEM" **Requesting you to revise th clause to "Should support Custom Application Signature and ability to easily customize security to address new and specific threats and applications quickly "**	**Clause Amended as:** Please refer to the Corrigendum
612.	Section 6.7.13	Internet Firewall - Point No. 28	156	II	The Management platform must be accessible via a web-based interface and ideally with no need for additional client software.	Asking only web based interface is restriction other NGFW leaders vendors from bidding this tender. We suggest you please ask **"The Management platform must be accessible via a web-based interface / Console / Client software."**	**Clarification:** Tender conditions shall prevail
613.	Section 6.7.13	Internet Firewall - Point No. 28	156	II	The Management platform must be accessible via a web-based interface and ideally with no need for additional client software.	Asking only web based interface is restriction other NGFW leaders vendors from bidding this tender. We suggest you please ask **"The Management platform must be accessible via a web-based interface / Console / Client software."**	**Clarification:** Tender conditions shall prevail
614.	Section 6.7.13	Internet Firewall - Point No.36	157	II	The centralized management platform must not have any limit in terms of handling logs per day	There should be some number for handling log per day this will help in term of Sizing the suitable appliance. **Requesting you to revised the clause to "The centralized management platform must have 100 GB or more logs per day"**	**Clarification:** Tender conditions shall prevail
615.	Section 6.7.14	Internal Firewall - Point No. 4	157	II	Should support 6 Gbps of NGFW / Threat Prevention) real- world / production performance	Please clarify if only NGFW (FW+AVC+IPS) performance parameter is required or the solution to be proposed with Threat Prevention (FW+AVC+IPS+Antivirus/Antimalaware) performance to be proposed. **Also considering the scalability, request to revise the clause to "Solution should support minimum 10 Gbps of Threat Prevention performance on real-world / production performance "**	**Clarification:** Tender conditions shall prevail
616.	Section 6.7.14	Internal Firewall - Point No. 5	157	II	Firewall should support at least 25,00,000 concurrent sessions with application visibility turned on	Kindly **remove "with AVC feature turned on "** This parameter is specific to only one OEM". Considering Number of users/citizen going to access this Network , Firewall need to have large session handling capability and **Requesting you to revise the clause to "Firewall should support at least 40 Million concurrent sessions"**	**Clause Amended as:** Please refer to the Corrigendum
617.	Section 6.7.14	Internal Firewall - Point No. 6	157	II	Firewall should support at least 35,000 connections per second with application visibility turned on	Kindly **remove "with AVC feature turned on "** This parameter is specific to only one OEM". Considering Number of users/citizen going to access this Network , Firewall need to have large session handling capability **Requesting you to revise the clause to "Firewall**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						should support at least 380,000 connections per second"	
618.	Section 6.7.13	Internet Firewall - Point No.36	157	II	The centralized management platform must not have any limit in terms of handling logs per day	There should be some number for handling log per day this will help in term of Sizing the suitable appliance. **Requesting you to revised the clause to "The centralized management platform must have 100 GB or more logs per day"**	**Clarification:** Tender conditions shall prevail
619.	Section 6.7.14	Internal Firewall - Point No. 4	157	II	Should support 6 Gbps of NGFW / Threat Prevention) real- world / production performance	Please clarify if only NGFW (FW+AVC+IPS) performance parameter is required or the solution to be proposed with Threat Prevention (FW+AVC+IPS+Antivirus/Antimalaware) performance to be proposed. **Also considering the scalability, request to revise the clause to "Solution should support minimum 10 Gbps of Threat Prevention performance on real-world / production performance "**	**Clarification:** Tender conditions shall prevail
620.	Section 6.7.14	Internal Firewall - Point No. 5	157	II	Firewall should support at least 25,00,000 concurrent sessions with application visibility turned on	Kindly **remove "with AVC feature turned on "** This parameter is specific to only one OEM". Considering Number of users/citizen going to access this Network , Firewall need to have large session handling capability and **Requesting you to revise the clause to "Firewall should support at least 40 Million concurrent sessions"**	**Clause Amended as:** Please refer to the Corrigendum
621.	Section 6.7.14	Internal Firewall - Point No. 6	157	II	Firewall should support at least 35,000 connections per second with application visibility turned on	Kindly **remove "with AVC feature turned on "** This parameter is specific to only one OEM". Considering Number of users/citizen going to access this Network , Firewall need to have large session handling capability **Requesting you to revise the clause to "Firewall should support at least 380,000 connections per second"**	**Clause Amended as:** Please refer to the Corrigendum
622.	Section 6.7.14	Internet Firewall - Point No. 2	157	II	The Appliance should support at least 4 x 1G Ethernet Ports & 4 x 10G ports with multi-mode transceivers from day one.	in the proposed DC solution Architecture we can see project is indeed using 40 Gbps but in firewall no ports has been asked neither support, we request you to ask **"The Appliance should support at least 4 x 1G Ethernet Ports & 4 x 10G ports with multi-mode transceiver from day one and must support at least 2 x 40G port in near future without changing the device.**	**Clarification:** Tender conditions shall prevail
623.	Section 6.7.14	Internet Firewall - Point No. 5	157	II	Firewall should support at least 25,00,000 concurrent sessions with application visibility turned on	Internal firewall will be used for internal communication and it is going to handle all the internal traffic and asked concurrent session is very less, we suggest you to please ask " **Firewall should support at least 25,00,000 concurrent sessions and must havve**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						option to support **up to 25,000,000 concurrent sessions in future without changing the device**."	
624.	Section 6.7.14	Internet Firewall - Point No. 6	157	II	Firewall should support at least 35,000 Connection per second with Application visibility turned on.	Ask connectio per second is very less, as smart city project is going completely degital, every user and system will be connected through internet and most of them will be below firewall and passing the connection through the firewall it self and theiris no scalability option is asked, because what industry standard says is every user generate minimum 10 new connection per second and asked value is 35,000 only which meanssmartr city is looking only with user capability 3500 but what we believe is going to be much more than this. we suggest that"**Firewall should support at least 150,000 connection per second with application visibility turned on and must be having scalability up to 200,00 connection per second from day one**."	**Clause Amended as:** Please refer to the Corrigendum
625.	Section 6.7.14	Internal Firewall /Hardware Architecture	157	II	The Appliance should support at least 4 x 1G Ethernet Ports & 4 x 10G ports with multi-mode transceivers from day one.	in the proposed DC solution Architecture we can see project is indeed using 40 Gbps but in firewall no ports has been asked neither support, we request you to ask "**The Appliance should support at least 4 x 1G Ethernet Ports & 4 x 10G ports with multi-mode transceiver from day one and must support at least 2 x 40G port in near future without changing the device.**	**Clarification:** Tender conditions shall prevail
626.	Section 6.7.14	Internal Firewall - Point No. 5	157	II	Firewall should support at least 25,00,000 concurrent sessions with application visibility turned on	Internal firewall will be used for internal communication and it is going to handle all the internal traffic and asked concurrent session is very less, we suggest you to please ask " **Firewall should support at least 25,00,000 concurrent sessions and must havve option to support up to 25,000,000 concurrent sessions in future without changing the device**."	**Clause Amended as:** Please refer to the Corrigendum
627.	Section 6.7.14	Internal Firewall - Point No. 6	157	II	Firewall should support at least 35,000 Connection per second with Application visibility turned on.	Ask connectio per second is very less, as smart city project is going completely degital, every user and system will be connected through internet and most of them will be below firewall and passing the connection through the firewall it self and theiris no scalability option is asked, because what industry standard says is every user generate minimum 10 new connection per second and asked value is 35,000 only which meanssmartr city is looking only with user capability 3500 but what we believe is going to be much more than this. we suggest that"**Firewall should support at least 150,000 connection per second with application visibility turned on and must be having scalability up to 200,00 connection per second from day one**."	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
628.	Section 6.7.14	Internal Firewall	157	II	New Point	Please ask **"The Proposed NGFW device must support virtual context from day one."** Having virtual firewall will help smart city project to use same firewall hardware device to run multiple instance as in when required in future and will be managed by same management which is going to manage NGFW device.	**Clarification:** Tender conditions shall prevail
629.	Section 6.7.14	Internal Firewall - Point No. 15	158	II	Should support more than 4000 (excluding custom signatures) IPS signatures or more	Request to amend as "Should support more than **10,000+** (excluding custom signatures) IPS signatures or more" Remarks: The effectiveness of IPS is depned on signature's as more number of signature more number of & faster attack/malicious detection. So request please increase the number of IPS signature to better security.	**Clarification:** Tender conditions shall prevail
630.	Section 6.7.14	Internal Firewall - Point No. 15	158	II	Should support more than 4000 (excluding custom signatures) IPS signatures or more	Request to amend as "Should support more than **10,000+** (excluding custom signatures) IPS signatures or more" Remarks: The effectiveness of IPS is depned on signature's as more number of signature more number of & faster attack/malicious detection. So request please increase the number of IPS signature to better security.	**Clarification:** Tender conditions shall prevail
631.	Section 6.7.14	Internal Firewall - Point No. 11	158	II	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6- to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	It is suggested to include DNS64 and and DHCPv6 along with NAT66 and NAT64 for a complete IPv6 functionality. Having NAT66 and NAT64 without support for DNS64 and DHCPv6, it will be a incomplete solution to cater to IPv6 requirement. **Requesting to change as:Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4), Nat46 (IPv4-to-IPv6), DNS64 and DHCPv6 functionality**	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
632.	Section 6.7.14	Internal Firewall - Point No. 11	158	II	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6- to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	It is suggested to include DNS64 and and DHCPv6 along with NAT66 and NAT64 for a complete IPv6 functionality. Having NAT66 and NAT64 without support for DNS64 and DHCPv6, it will be a incomplete solution to cater to IPv6 requirement. **Requesting to change as:Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4), Nat46 (IPv4-to-IPv6), DNS64 and DHCPv6 functionality**	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
633.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 1	159	II	The proposed appliance should provide integrated functionalities of Server Load balancer, Intelligent DNS, Link Load Balancing, SSL Offloading, WAF and Fraud Protection (Application Layer Encryption).	**Fraud Protection**: Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. Also, since the device asked is multi-tenant, to be truly capable of Network Function Virtualization, it should also support hosting third party network functions. The "*Fraud Protection*" clause is **OEM specific**, so request you to modify this clause to "**The**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					proposed appliance should provide integrated functionalities of Server Load balancer, Intelligent DNS, Link Load Balancing, SSL Offloading, And WAF. The appliance should have the capability to install and run third-party and Open source software solutions on the same appliance from Day 1"		
634.	Section 6.7.15	NA	159	II	**New feature**- Should support SDK for secure IOT, Authentication and authorization of IOT devices in the network	IOT devices are easily accessible on smart devices like poles, Water meter, Electric meters etc and is a security flaw if any unauthorized device is connected, to mitigate this IOT device needs to be authorized and authenticated before establishing a secure encrypted tunnel to the datacentre or DR site via an IOT concentrator. Please do include IOT SDK support feature on the application delivery controller.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
635.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS	159	II	**New feature**- IOT concentrator on application delivery controller should have inbuilt local database or connect to external AAA	This feature enables IOT devices to achieve authentication before connecting to the DC network.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
636.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS	159	II	Server & Link Load balancer and Web Application firewall and DDoS	Request you to please remove Web Application Firewall from the load balancer solution and ask for it to be proposed as a dedicated appliance based solution. WAF is meant to protect all the applications that ASCL will develop and which will be open for external users to access. This presents a clear and present danger to this applications and therefore, this piece of protection should be taken most seriously. The WAF being deployed as a dedicated appliance has a great advantage over any other deployment methods both in terms of performance and security feature parity. We request you to kindly delete the WAF functionality from load balancer solution and provide detailed minimum specifications for a dedicated, appliance based, Web Application Firewall Solution.	**Clarification:** Tender conditions shall prevail
637.	Section 6.7.14	Internal Firewall - Point No. 36	159	II	The centralized management platform must not have any limit in terms of handling logs per day	There should be some number for handling log per day this will help in term of Sizing the suitable appliance. **Requesting you to revised the clause to "The centralized management platform must have 100 GB or more logs per day"**	**Clarification:** Tender conditions shall prevail
638.	Section 6.7.14	Internal Firewall - Point No. 36	159	II	The centralized management platform must not have any limit in terms of handling logs per day	There should be some number for handling log per day this will help in term of Sizing the suitable appliance. **Requesting you to revised the clause to "The centralized management platform must have 100 GB or more logs per day"**	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
639.	Section 6.7.15	Server & Link Load Balancer and Web Application Firewall and DDoS - Point No. 2	159	II	The proposed appliance must provide 8 X 1 G ports and 4 X 10 G SFP+ ports	Technology and application is changing Rapidly hence the overall DC or private cloud connectivity should be also as per industry standard to provide the faster application response and better end user experience, hence recommend department to add 40G interfaces for future use Request you to change clause as "The proposed appliance must provide **4** X 1 G ports and 4 X 10 G SFP+ ports **and 4x40G** from day 1"	**Clarification:** Tender conditions shall prevail
640.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 1	159	II	The proposed appliance should provide integrated functionalities of Server Load balancer, Intelligent DNS, Link Load Balancing, SSL Offloading, WAF and Fraud Protection (Application Layer Encryption).	**Fraud Protection**: Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. Also, since the device asked is multi-tenant, to be truly capable of Network Function Virtualization, it should also support hosting third party network functions. The "**Fraud Protection**" clause is **OEM specific**, so request you to modify this clause to "**The proposed appliance should provide integrated functionalities of Server Load balancer, Intelligent DNS, Link Load Balancing, SSL Offloading, And WAF. The appliance should have the capability to install and run third-party and Open source software solutions on the same appliance from Day 1**"	**Clause Amended as:** Please refer to the Corrigendum
641.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS	159	II	**New feature**- Should support SDK for secure IOT, Authentication and authorization of IOT devices in the network	IOT devices are easily accessible on smart devices like poles, Water meter, Electric meters etc and is a security flaw if any unauthorized device is connected, to mitigate this IOT device needs to be authorized and authenticated before establishing a secure encrypted tunnel to the datacentre or DR site via an IOT concentrator. Please do include IOT SDK support feature on the application delivery controller.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
642.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS	159	II	**New feature**- IOT concentrator on application delivery controller should have inbuilt local database or connect to external AAA	This feature enables IOT devices to achieve authentication before connecting to the DC network.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
643.	Section 6.7.14	Internet Firewall - Point No. 26	159	II	The Management platform must be accessible via a web-based interface and ideally with no need for additional client software.	Asking only web based interface is restriction other NGFW leaders vendors from bidding this tender. We suggest you please ask "The Management platform must be accessible via a web-based interface / Console / Client software.	**Clarification:** Tender conditions shall prevail
644.	Section 6.7.14	Internet Firewall - Point No. 30	159	II	The Management platform must domain multi domain management	We seek clarification that what is the need of Multi Domain Management.Because multi domain is used to managed different location withh having shared management.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
645.	Section 6.7.14	Internal Firewall - Point No. 26	159	II	The Management platform must be accessible via a web-based interface and ideally with no need for additional client software.	Asking only web based interface is restriction other NGFW leaders vendors from bidding this tender. We suggest you please ask "The Management platform must be accessible via a **web-based interface / Console / Client software.**	**Clarification:** Tender conditions shall prevail
646.	Section 6.7.14	Internal Firewall - Point No. 30	159	II	The Management platform must domain multi domain management	We seek clarification that what is the need of Multi Domain Management.Because multi domain is used to managed different location withh having shared management.	**Clause Amended as:** Please refer to the Corrigendum
647.	Section 6.7.15	Server & Link Load balancer and Web Application firewall and DDoS - Point No. 2	159	II	The proposed appliance must provide 8 X 1 G ports and 4 X 10 G SFP+ ports	Technology and application is changing Rapidy hence the oveall DC or private cloud connectivity should be also as per industry standard to provide the faster application response and better end user experience, hence recommend deparyment to add 40G interfaces for future use. Request you to change clause as "The proposed appliance must provide 4 X 1 G ports and 4 X 10 G SFP+ ports **and 4x40G from day 1"**	**Clarification:** Tender conditions shall prevail
648.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 4	160	II	The proposed appliance must support minimum SSL TPS of 9k (RSA 2k keys) and minimum 6K (with ECDSA 256 key).	Since the appliance is supposed to cater as a platform serving multiple network functions like Server Load Balancer, SSL Offloader, WAF etc, the mentioned numbers are undersized for the requirement and hence we recommend increasing them in accordance to the other products/requirements. Please change the clause to "**The proposed appliance must support minimum SSL TPS of 50k (RSA 2k keys) and minimum 35K (with ECDSA 256 key)."**	**Clarification:** Tender conditions shall prevail
649.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 3	160	II	The proposed appliance should provide minimum throughput of 5 Gbps	5 Gbps is undersized for catering to so many network functions as asked for. This will result in a bottleneck for the entire network and instead of optimizing the performance, it woud rather slow it down. To maintain and achieve high performance and efficiency, we request you to change the clause to "**The proposed appliance should provide minimum throughput of 50 Gbps scalable to 80 Gbps on the same appliance"**	**Clarification:** 5 Gbps is minimum throughput requirement, The Bidder shall provision appliance as per their solution design to meet SLA
650.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 8	160	II	While applications are deployed in private DC and public cloud, the proposed application security architecture should have a mechanism of centralized Security policies enforcement, SSL Certificates management for workloads on Private DC and public clouds.	This clause is **OEM specific**. Please remove this clause	**Clarification:** Tender conditions shall prevail
651.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 9	160	II	The proposed solution must be able to load balance both TCP and UDP based application from L2 to L7 including lightweight IoT protocols like MQTT and CoAP protocol for machine to machine	While MQTT runs on TCP, CoAP uses UDP to function. These applications can be load balanced by any Server Load Balancer which can cater to TCP and UDP applications. TO ensure fair and wide participation in the RFP, we request to change the clause to "**The proposed solution must be able to load balance**	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					connectivity between IoT appliances such as small sensors, mobile devices etc.	both TCP and UDP based application from L2 to L7 ~~including lightweight IoT protocols like MQTT and CoAP protocol for machine to machine connectivity between IoT appliances such as small sensors, mobile devices etc.~~"	
652.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 13	160	II	Device should support File Upload Violation & scanning for malicious content in Uploads through ICAP integration	This clause is **proprietory and OEM specific**. ICAP is used for integration of virus scanning solution. And same is not a ADC/WAF feature., and hence request to modify this clause to "**Device should support File Upload/Download Violations**"	**Clarification:** Tender conditions shall prevail
653.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 15	160	II	The proposed solution must provide comprehensive security both at network and application level via WAF and Application Layer Encryption from Day 1.	**Application Layer encryption**: Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. This clause is **proprietory and OEM specific**, so request you to modify this clause to "**The proposed solution must provide comprehensive security for application level via WAF**"	**Clarification:** Tender conditions shall prevail
654.	Section 6.7.15	Server & Link Load Balancer and Web Application Firewall and DDoS - Point No. 7	160	II	The proposed solution should support minimum 400K DNS Query Per Second	As DNS QPS is mentioned for DNS solution, traffic hence it equally important to define the TCP connection for Server load balancer and HTTP Request for Web Application firewall solution solution. Request to change clause as "The proposed solution should support minimum 400K DNS Query Per Second, **Minimum 28Miliion L4 concurrent connections, minimum 1M L7 requests per second and minimum 2Million L4 HTTP requests per second** "	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
655.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 4	160	II	The proposed appliance must support minimum SSL TPS of 9k (RSA 2k keys) and minimum 6K (with ECDSA 256 key).	Since the appliance is supposed to cater as a platform serving multiple network functions like Server Load Balancer, SSL Offloader, WAF etc, the mentioned numbers are undersized for the requirement and hence we recommend increasing them in accordance to the other products/requirements. Please change the clause to "**The proposed appliance must support minimum SSL TPS of 50k (RSA 2k keys) and minimum 35K (with ECDSA 256 key).**"	**Clarification:** Tender conditions shall prevail
656.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 3	160	II	The proposed appliance should provide minimum throughput of 5 Gbps	5 Gbps is undersized for catering to so many network functions as asked for. This will result in a bottleneck for the entire network and instead of optimizing the performance, it woud rather slow it down. To maintain and achieve high performance and efficiency, we request you to change the clause to "**The proposed appliance should provide minimum throughput of 50 Gbps scalable to 80 Gbps on the same appliance**"	**Clarification:** 5 Gbps is minimum throughput requirement, Bidder to provision appliance as per the solution design to meet SLA

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
657.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 9	160	II	The proposed solution must be able to load balance both TCP and UDP based application from L2 to L7 including lightweight IoT protocols like MQTT and CoAP protocol for machine to machine connectivity between IoT appliances such as small sensors, mobile devices etc.	While MQTT runs on TCP, CoAP uses UDP to function. These applications can be load balanced by any Server Load Balancer which can cater to TCP and UDP applications. TO ensure fair and wide participation in the RFP, we request to change the clause to "**The proposed solution must be able to load balance both TCP and UDP based application from L2 to L7 ~~including lightweight IoT protocols like MQTT and CoAP protocol for machine to machine connectivity between IoT appliances such as small sensors, mobile devices etc.~~**"	**Clause Amended as:** Please refer to the Corrigendum
658.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 13	160	II	Device should support File Upload Violation & scanning for malicious content in Uploads through ICAP integration	This clause is **proprietory and OEM specific**. ICAP is used for integration of virus scanning solution. And same is not a ADC/WAF feature., and hence request to modify this clause to "**Device should support File Upload/Download Violations**"	**Clarification:** Tender conditions shall prevail
659.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 15	160	II	The proposed solution must provide comprehensive security both at network and application level via WAF **and Application Layer Encryption from Day 1.**	**Application Layer encryption**: Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. This clause is **proprietory and OEM specific**, so request you to modify this clause to "**The proposed solution must provide comprehensive security for application level via WAF**"	**Clarification:** Tender conditions shall prevail
660.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 11	160	II	The proposed solution must offer out of band programming for control plane along with data plane scripting for functional like content inspection and traffic management	This clause is **OEM specific**. We request to amend same as "**Should offer scripting for function like content inspection and traffic management**"	**Clause Amended as:** Please refer to the Corrigendum
661.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 8	160	II	While applications are deployed in private DC and public cloud, the proposed application security architecture should have a mechanism of centralized Security policies enforcement, SSL Certificates management for workloads on Private DC and public clouds.	This clause is **OEM specific**. Please remove this clause	**Clarification:** Tender conditions shall prevail
662.	Section 6.7.15	Server & Link Load balancer and Web Application firewall and DDoS - Point No. 7	160	II	The proposed solution should support minimum 400K DNS Query Per Second	As DNS QPS is mentioned for DNS solution, traffic hence it equally importnat to define the TCP connection for Server load balancer and HTTP Request for Web Application firewall solution. Request to change clause as "The proposed solution should support minimum 400K DNS Query Per Second, **Minimum 28Miliion L4 concurrent connections, minimum 1M L7 requests per second and minimum 2Million L4 HTTP requests per second** "	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
663.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 18	161	II	System should be able to encrypt the user credentials in real-time so as to protect the credentials especially password or any other sensitive parameter as defined by department to protect from key loggers and credential stealing malware residing in the end user's system	Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. This clause is **proprietory and OEM specific**, so request you to remove this clause.	**Clarification:** Tender conditions shall prevail
664.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 20	161	II	Must be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking.	Threat intelligence feed should be available from WAF Module's OEM, and not a solution from different third party. It is highly recommended to have a threat intel feed from same WAF Module's OEM to have a correct actionable against attacks. And proactively mitigate 0 day attacks. Request to change the clause to "**Must be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking. Threat Intelligence feed should be from same OEM as the WAF Module for proactive and effective attack mitigation**"	**Clarification:** Tender conditions shall prevail
665.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 21	161	II	Support File Upload Violation & scanning for malicious content in Uploads through ICAP integration	This clause is **proprietory and OEM specific**. ICAP is used for integration of virus scanning solution. And same is not a ADC/WAF feature., and hence request to modify this clause to "**Device should support File Upload/Download Violations**"	**Clarification:** Tender conditions shall prevail
666.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 22	161	II	Should be stable and not affect service availability even upon any system fault	We understand this as HA feature. For better understanding, please re-write this clause as "**Should be stable and not affect service availability even upon any system fault using HA**".	**Clarification:** Tender conditions shall prevail
667.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 23	161	II	Solution should perform comprehensive countermeasure to protect against zero-day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real-time through inbuilt Captcha Mechanism	Web Vulnerability scanner integration with WAF is a must for zero-day attack mitigation, however for ease of operation web vulnerability scanner should be from same WAF Module's OEM. Request you to change the clause to "**Solution should perform comprehensive countermeasure to protect against zero-day vulnerability mitigation using WAF integration with Web vulnerability scanner from the same OEM as WAF Module, Challenge – Response Mechanism, which should be able to detect and protect attacks in real-time through inbuilt Captcha Mechanism**"	**Clarification:** Tender conditions shall prevail
668.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 24	161	II	Solution should integrate with AD, LDAP, Radius,TACACS with inbuilt OTP mechanism for 2 Factor Authentication in future.	Along with two factor authentication, it is critical to ensure that only the authorized and clean, uninfected machines access the critical resources. Hence, Machine Authentication becomes imminent. Please change the clause to "**Solution should integrate with AD, LDAP, Radius,TACACS with inbuilt OTP**	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						mechanism for 2 Factor Authentication in future. The solution should have license upgrade feature on same appliance to support machine authentication based on combination of HDD ID, CPU info and OS related parameters i.e. mac address to provide secure access/authentication to corporate resources."	
669.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 26	161	II	Must support Zone files, Subdomain Delegation	For an effective Inbound load balancing, the solution must support multiple record types like AAAA, A, MX, PTR, SOA etc. Hence, we request to change the clause to "**Must support Zone files, Subdomain Delegation. It should support advanced functions Authoritative name sever, DNS proxy/DNS NAT, full DNS server with DNSEC, DNS DDOS, application load balancing from day one. It should be capable of handling complete Full DNS bind records including A,MX, AAAA, CNAME, PTR, SOA etc.**"	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
670.	Section 6.7.15	Server and Link Load Balancer and Web Application firewall and DDoS - Point No. 31	161	II	Proposed solution should be manageable from a single management platform	Along with the central management aspect, it is important to conside the High Availability requirements to qualify the solution. To ensure fair and wide participation in the RFP, it should also be ensured that the Solution uses Industry Standard protocol for HA. Hence, we request to change the clause to "**Proposed solution should be manageable from a single management platform. The Solution should support High Availability based on Standard VRRP (RFC 2338) and also support N+1 HA Model with a single cluster supporting up to 32 Nodes from Day 1**"	**Clarification:** Tender conditions shall prevail
671.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 18	161	II	System should be able to encrypt the user credentials in real-time so as to protect the credentials especially password or any other sensitive parameter as defined by department to protect from key loggers and credential stealing malware residing in the end user's system	Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. This clause is **proprietory and OEM specific**, so request you to remove this clause.	**Clarification:** Tender conditions shall prevail
672.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 20	161	II	Must be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking.	Threat intelligence feed should be available from WAF Module's OEM, and not a solution from different third party. It is highly recommended to have a threat intel feed from same WAF Module's OEM to have a correct actionable against attacks. And proactively mitigate 0 day attacks. Request to change the clause to "**Must be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking. Threat Intelligence feed should be from same OEM as the WAF Module for proactive and effective attack mitigation**"	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
673.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 21	161	II	Support File Upload Violation & scanning for malicious content in Uploads through ICAP integration	This clause is **proprietory and OEM specific**. ICAP is used for integration of virus scanning solution. And same is not a ADC/WAF feature., and hence request to modify this clause to "**Device should support File Upload/Download Violations**"	**Clarification:** Tender conditions shall prevail
674.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 23	161	II	Solution should perform comprehensive countermeasure to protect against zero-day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real-time through inbuilt Captcha Mechanism	Web Vulnerability scanner integration with WAF is a must for zero-day attack mitigation, however for ease of operation web vulnerability scanner should be from same WAF Module's OEM. Request you to change the clause to "**Solution should perform comprehensive countermeasure to protect against zero-day vulnerability mitigation using WAF integration with Web vulnerability scanner from the same OEM as WAF Module,** Challenge – Response Mechanism, which should be able to detect and protect attacks in real-time through inbuilt Captcha Mechanism"	**Clarification:** Tender conditions shall prevail
675.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 24	161	II	Solution should integrate with AD, LDAP, Radius,TACACS with inbuilt OTP mechanism for 2 Factor Authentication in future.	Along with two factor authentication, it is critical to ensure that only the authorized and clean, uninfected machines access the critical resources. Hence, Machine Authentication becomes imminent. Please change the clause to "**Solution should integrate with AD, LDAP, Radius,TACACS with inbuilt OTP mechanism for 2 Factor Authentication in future. The solution should have license upgrade feature on same appliance to support machine authentication based on combination of HDD ID, CPU info and OS related parameters i.e. mac address to provide secure access/authentication to corporate resources.**"	**Clarification:** Tender conditions shall prevail
676.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 26	161	II	Must support Zone files, Subdomain Delegation	For an effective Inbound load balancing, the solution must support multiple record types like AAAA, A, MX, PTR, SOA etc. Hence, we request to change the clause to "**Must support Zone files, Subdomain Delegation. It should support advanced functions Authoritative name sever, DNS proxy/DNS NAT, full DNS server with DNSEC, DNS DDOS, application load balancing from day one. It should be capable of handling complete Full DNS bind records including A,MX, AAAA, CNAME, PTR, SOA etc.**"	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
677.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 31	161	II	Proposed solution should be manageable from a single management platform	Along with the central management aspect, it is important to conside the High Availability requirements to qualify the solution. To ensure fair and wide participation in the RFP, it should also be ensured that the Solution uses Industry Standard protocol for HA. Hence, we request to change the clause to "**Proposed solution should be manageable from a single management platform. The Solution should support High Availability based on Standard VRRP (RFC**	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						2338) and also support N+1 HA Model with a single cluster supporting up to 32 Nodes from Day 1"	
678.	Section 6.7.15	Server & Link Load balancer and Web application firewall and DDoS - Point No. 22	161	II	Should be stable and not affect service availability even upon any system fault	We understand this as HA feature. For better understanding, please re-write this clause as "**Should be stable and not affect service availability even upon any system fault using HA**".	**Clarification:** Tender conditions shall prevail
679.	Section 6.7.16	Web Security Appliance - Point No. 11	162	II	The web proxy solution should be capable of executing the web sessions from un-categorised websites in a local container away from the endpoint thereby preventing any website delivered zero-day malwares from reaching the endpoints	Request to Delete this clause Remarks Sandboxing of URL or auto submission of URL to sandboxing is not required and specially in smart city not required . Genrally Web seciurty gateway either block or allows the websites based on multiple alogorithm i.e reputation based filtering, site reputation and othr filtering policies.	**Clarification:** Tender conditions shall prevail
680.	Section 6.7.16	Web Security Appliance - Point No. 11	162	II	The web proxy solution should be capable of executing the web sessions from un-categorised websites in a local container away from the endpoint thereby preventing any website delivered zero-day malwares from reaching the endpoints	Request to Delete this clause Remarks Sandboxing of URL or auto submission of URL to sandboxing is not required and specially in smart city not required . Genrally Web seciurty gateway either block or allows the websites based on multiple alogorithm i.e reputation based filtering, site reputation and othr filtering policies.	**Clarification:** Tender conditions shall prevail
681.	Section 6.8.16	**Web Security Appliances - Point No. 11**	162	II	The web proxy solution should be capable of executing the web sessions from un categorized in a local container away from the endpoint thereby preventing any website delievered zero day from reaching the endpoint	Kindly remove this clause. This is OEM specific and related to web isolation , as APT is already been asked as separate solution this will be taken care by APT	**Clause Amended as:** Please refer to the Corrigendum
682.	Section 6.8.16	**Web Security Appliances**	162	II	Add New Point	Web security solution should have native integration with Data Leakage prevention solution to protect data theft from insiders or through the malware , no additional icap should be needed. Proxy should provide the protection of Data leakage and should provide visibility to data theft . Most of the smart city has such solutions	**Clarification:** Tender conditions shall prevail
683.	Section 6.7.17	Network Behaviour Analysis - Point No. 1	165	II	Solution should be capable of performing network behaviour analysis along with continuous full packet capture and forensics capabilities. Should capture all packets from network in real-time and be able to classify, extract and analytics, reconstructs network activity and forensics over IPv4 and, IPv6	**Clarification Required:** Please confirm whether "Solution should provide a full-featured Network threat analyzer capability to detect threats emerging from inside the network (i.e., ones that have not passed through a perimeter FW/IPS). This includes the ability to establish "normal" traffic baselines through flow analysis techniques and the ability to detect deviations from normal baselines is required from this solution" **Need to remove**: continuous full packet capture and forensics capabilities Remarks:	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						Request to remove full packet capture functionality as Smart City infrastructure would have limited exposure to outside world ie internet. Functional need of NBAR is for internal network mostly.	
684.	Section 6.7.17	Network Behaviour Analysis - Point No. 2	165	II	Ability to import PCAP & PCAPNG files simultaneously while the live capture is going on. making it easy to analyze historical data or, captures from other sources. The solution should also include a packet viewer that is capable of following TCP streams.	Request to Remove this clause Remarks: Smart city infrastructure have very limited exposure to internet from users perspective, so this functionality is not required. This will increase the cost of total solution without any impact.	**Clause Amended as:** Please refer to the Corrigendum
685.	Section 6.7.17	Network Behaviour Analysis - Point No. 6	165	II	Solution should perform lossless packet capture at rate of 1 Gbps of network traffic	Request to remove this clause	**Clause Amended as:** Please refer to the Corrigendum
686.	Section 6.7.17	Network Behaviour Analysis - Point No. 9	165	II	3rd Party Threat Feed integration – add live-feeds, like Snort, quickly and easily. Reputation Services provide added value and threat intelligence	Request to amend it as" OEM own Threat Feed integration – add live-feeds, like Snort, quickly and easily. Reputation Services provide added value and threat intelligence" Remarks: For better security should be integrated with same OEM threat intelligence feed.	**Clause Amended as:** Please refer to the Corrigendum
687.	Section 6.7.17	Network Behaviour Analysis - Point No. 1	165	II	Solution should be capable of performing network behaviour analysis along with continuous full packet capture and forensics capabilities. Should capture all packets from network in real-time and be able to classify, extract and analytics, reconstructs network activity and forensics over IPv4 and, IPv6	**Clarification Required:** Please confirm whether "Solution should provide a full-featured Network threat analyzer capability to detect threats emerging from inside the network (i.e., ones that have not passed through a perimeter FW/IPS). This includes the ability to establish "normal" traffic baselines through flow analysis techniques and the ability to detect deviations from normal baselines is required from this solution" **Need to remove**: continuous full packet capture and forensics capabilities Remarks: Request to remove full packet capture functionality as Smart City infrastructure would have limited exposure to outside world ie internet. Functional need of NBAR is for internal network mostly.	**Clause Amended as:** Please refer to the Corrigendum
688.	Section 6.7.17	Network Behaviour Analysis - Point No. 2	165	II	Ability to import PCAP & PCAPNG files simultaneously while the live capture is going on. making it easy to analyze historical data or, captures from other sources. The solution should also include a packet viewer that is capable of following TCP streams.	Request to Remove this clause Remarks: Smart city infrastructure have very limited exposure to internet from users perspective, so this functionality is not required. This will increase the cost of total solution without any impact.	**Clause Amended as:** Please refer to the Corrigendum
689.	Section 6.7.17	Network Behaviour	165	II	Solution should perform lossless packet capture at rate of 1 Gbps of network traffic	Request to remove this clause	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
		Analysis - Point No. 6					
690.	Section 6.7.17	Network Behaviour Analysis - Point No. 9	165	II	3rd Party Threat Feed integration – add live-feeds, like Snort, quickly and easily. Reputation Services provide added value and threat intelligence	Request to amend it as" OEM own Threat Feed integration – add live-feeds, like Snort, quickly and easily. Reputation Services provide added value and threat intelligence" Remarks: For better security should be integrated with same OEM threat intelligence feed.	**Clause Amended as:** Please refer to the Corrigendum
691.	Section 6.7.17	Network Behaviour Analysis - Point No. 22	166	II	Root Cause Explorer Features - Automates tracing of HTTP referrer chains that can significantly reduce time to search for related preceding sessions.	Request to Remove this clause Remarks: Request to remove this clause. This is not NBAR functionality	**Clause Amended as:** Please refer to the Corrigendum
692.	Section 6.7.17	Network Behaviour Analysis - Point No. 22	166	II	Root Cause Explorer Features - Automates tracing of HTTP referrer chains that can significantly reduce time to search for related preceding sessions.	Request to Remove this clause Remarks: Request to remove this clause. This is not NBAR functionality	**Clause Amended as:** Please refer to the Corrigendum
693.	Section 6.7.17	Network Behaviour Analysis - Point No. 40	167	II	Proposed solution should be a dedicated appliance based solution provisioned with dedicated storage of at least 300 TB. This solution should not be a part of firewall, IPS, SIEM and should not be a server based solution.	Request to Remove this clause - vendor restrictive clause Remarks: This is restrictive clause and specific to only one OEM . Request to remove for wider participation	**Clarification:** Tender conditions shall prevail
694.	Section 6.7.17	NA	167	II	Request to Add	The appliance tool should have capability to capture each and every flow using the light weight sensors deployed on VM, Bare Metal host and Network switches and analyse them to provide rich telemetry information about network i.e. Buffer utilization, packet drops, network latency etc. and application i.e. process ID, process owner, application latency etc. Regards: End to end real time visibility tool is required to capture every packet flow to ensure 100% secure workloads running in the data center and in cloud	**Clarification:** Tender conditions shall prevail
695.	Section 6.7.17	Network Behaviour Analysis - Point No. 40	167	II	Proposed solution should be a dedicated appliance based solution provisioned with dedicated storage of at least 300 TB. This solution should not be a part of firewall, IPS, SIEM and should not be a server based solution.	Request to Remove this clause - vendor restrictive clause Remarks: This is restrictive clause and specific to only one OEM . Request to remove for wider participation	**Clarification:** Tender conditions shall prevail
696.	Section 6.7.17	NA	167	II	Request to Add	The appliance tool should have capability to capture each and every flow using the light weight sensors deployed on VM, Bare Metal host and Network switches and analyse them to provide rich telemetry information about network i.e. Buffer utilization, packet drops, network latency etc. and application i.e. process ID, process owner, application latency etc. Regards:	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						End to end real time visibility tool is required to capture every packet flow to ensure 100% secure workloads running in the data center and in cloud	
697.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 3	168	II	Switch should be based on a Modular OS Architecture	All OEM have different HW and SW to run the application/process in the switch, Hence request you to relax on this by removing this clause from layer 3 switch.	**Clarification:** Tender conditions shall prevail
698.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 6	168	II	Should have at least 4GB of Flash for storing OS and other Logs and 4GB DRAM	As the different vendor have different architectures to handle the switching functionality and the OS loaded on the same . Some specific OEM require extra Flash but the the category of the OEMs has a simplified architecture where extra flash is not required . so request you to modify the clause to "Should have at least 1GB of Flash for storing OS and other Logs and 2GB DRAM" so that leaders can qualify to propose the product to solution.	**Clause Amended as:** Please refer to the Corrigendum
699.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 12	168	II	Should support at least 24K Ipv4 Routes	As per the city requirement even for the the next 5-10 years 24 K IPv4 routes will on the higher side as per general experience the city this requirement will not go beyond 10K so request you to modify this to "Should support at least 10K Ipv4 Routes" so that leaders can participate.	**Clarification:** Tender conditions shall prevail
700.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 18	168	II	The Switch should support routing protocols such OSPF, BGPv4, IS-ISv4	Request you to please remove IS-ISv4 as its is legacy protocol and not commonly used in present time. So that Leaders can participate.	**Clarification:** Tender conditions shall prevail
701.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 3	168	II	Switch should be based on a Modular OS Architecture	All OEM have different HW and SW to run the application/process in the switch, Hence request you to relax on this by removing this clause from layer 3 switch.	**Clarification:** Tender conditions shall prevail
702.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 6	168	II	Should have at least 4GB of Flash for storing OS and other Logs and 4GB DRAM	As the different vendor have different architectures to handle the switching functionality and the OS loaded on the same . Some specific OEM require extra Flash but the the category of the OEMs has a simplified architecture where extra flash is not required . so request you to modify the clause to "Should have at least 1GB of Flash for storing OS and other Logs and 2GB DRAM" so that leaders can qualify to propose the product to solution.	**Clause Amended as:** Please refer to the Corrigendum
703.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 12	168	II	Should support at least 24K Ipv4 Routes	As per the city requirement even for the the next 5-10 years 24 K IPv4 routes will on the higher side as per general experience the city this requirement will not go beyond 10K so request you to modify this to "Should support at least 10K Ipv4 Routes" so that leaders can participate.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
704.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 18	168	II	The Switch should support routing protocols such OSPF, BGPv4, IS-ISv4	Request you to please remove IS-ISv4 as its is legacy protocol and not commonly used in present time. So that Leaders can participate.	**Clarification:** Tender conditions shall prevail
705.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting)	168	II	switch should have front to back airflow system and 3 number of field replaceable fans. In case of failure of one fan than other fan automatically speed up.	switch should have front to back airflow system and 3 number of fans. In case of failure of one fan than other fan automatically speed up. Justification: in case of any of the component failure in switch, OEMs replace the whole unit instead of repairing/replacing individual component in fixed format switches. Hence it is of no use to ask field replaceable PSU	**Clarification:** Tender conditions shall prevail
706.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting)	168	II	switch should have dedicated stacking port and should support atleast 8 number of switches in a single stack	switch should be proposed in HA cluster from day-1 Justification: It would be better to ask standard 24 port 10G switch if stack of 8 is needed in near future. It will provide better RoI than asking a 12 port switch stackable up to 8 units. Pls amend the clause.	**Clarification:** Tender conditions shall prevail
707.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting)	168	II	switch should have front to back airflow system and 3 number of field replaceable fans. In case of failure of one fan than other fan automatically speed up.	switch should have front to back airflow system and 3 number of fans. In case of failure of one fan than other fan automatically speed up. Justification: in case of any of the component failure in switch, OEMs replace the whole unit instead of repairing/r	**Clarification:** Tender conditions shall prevail
708.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting)	168	II	switch should have dedicated stacking port and should support atleast 8 number of switches in a single stack	switch should be proposed in HA cluster from day-1 Justification: It would be better to ask standard 24 port 10G switch if stack of 8 is needed in near future. It will provide better RoI than asking a 12 port switch stackable up to 8 units. Pls amend the	**Clarification:** Tender conditions shall prevail
709.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting)	168	II	Switch should be EAL3/NDPP certified	remove Justification: the same is not asked in spine or leaf switches.	**Clause Amended as:** Please refer to the Corrigendum
710.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting)	168	II	Switch should be EAL3/NDPP certified	remove Justification: the same is not asked in spine or leaf switches.	**Clause Amended as:** Please refer to the Corrigendum
711.	Section 6.7.19	24-Port PoE GE layer 2 Switch	168	II	switch should support redundant power supply (internal/external)	switch should support internal redundant power supply Justification: it is recommended to ask internal redundant PSU in ICCC DC for max uptime.	**Clarification:** Tender conditions shall prevail
712.	Section 6.7.19	24-Port PoE GE layer 2 Switch	168	II	stacking module should be hot-swappable	remove Justification: in case of any of the component failure in switch, OEMs replace the whole unit instead of repairing/replacing individual component in fixed format switches. Hence it is of no use to ask field replaceable stacking ports.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
713.	Section 6.7.19	24-Port PoE GE layer 2 Switch	168	II	switch shall have minimum 216Gbps of switching fabric and 70Mpps of fowarding rate	switch shall have minimum 208Gbps of switching fabric and 154Mpps of fowarding rate Justification: basis asked ports, switching fabric required is 208Gbps with min 154Mpps forwarding rate for non-blocking performance	**Clause Amended as:** Please refer to the Corrigendum
714.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 28	169	II	The Switch should support flexible & multiple authentication mechanism, including 802.1X, MAC authentication bypass, and web authentication using a single, consistent configuration.	Request you to please modify this to "The Switch should support flexible & multiple authentication mechanism, including 802.1X, MAC authentication bypass pr equivalent, and web authentication using a single, consistent configuration. So that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
715.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 32	169	II	The Switch should support IP SLA feature set to verify services guarantee based on business-critical IP Applications.	OEM specific terminology hence request you to please modify this to "The Switch should support IP SLA or equivalent feature set to verify services guarantee based on business-critical IP Applications." so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
716.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 35	169	II	The Switch should support at-least 24000 Flows per switch	OEM specific terminology hence request you to please modify this to "The Switch should support at-least Sflows/NetFlow/Jflow or equivalent per switch" so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
717.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 28	169	II	The Switch should support flexible & multiple authentication mechanism, including 802.1X, MAC authentication bypass, and web authentication using a single, consistent configuration.	Request you to please modify this to "The Switch should support flexible & multiple authentication mechanism, including 802.1X, MAC authentication bypass **pr equivalent**, and web authentication using a single, consistent configuration. So that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
718.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 32	169	II	The Switch should support IP SLA feature set to verify services guarantee based on business-critical IP Applications.	OEM specific terminology hence request you to please modify this to "The Switch should support IP **SLA or equivalent** feature set to verify services guarantee based on business-critical IP Applications." so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
719.	Section 6.7.18	12-Port Layer 3 10G Switch (For Interconnecting) - Point No. 35	169	II	The Switch should support at-least 24000 Flows per switch	OEM specific terminology hence request you to please modify this to "The Switch should support **at-least Sflows/NetFlow/Jflow or equivalent** per switch" so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
720.	Section 6.7.19	24 Port PoE GE layer 2 Switch - Point No. 1	170	II	Switch should have minimum 24x10/100/1000Mbps PoE/PoE+ Ethernet Ports and 4x1G/10G SFP uplink ports.	Request to kindly amend it as " 24x10/100/1000Mbps PoE/PoE+ Ethernet Ports and 4x1G SFP **or 2x10G SFP+** uplink ports" Remarks: for 24x1G Downlink port , 4x1G SFP or 2x10G SFP+ uplink are requitred technically. 4x10G ports will be oversubscribed as total traffic will not cross more then 24Gig	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
721.	Section 6.7.19	24 Port PoE GE layer 2 Switch - Point No. 1	170	II	Switch should have minimum 24x10/100/1000Mbps PoE/PoE+ Ethernet Ports and 4x1G/10G SFP uplink ports.	Request to kindly amend it as " 24x10/100/1000Mbps PoE/PoE+ Ethernet Ports and 4x1G SFP **or 2x10G SFP+ uplink** ports" Remarks: for 24x1G Downlink port , 4x1G SFP or 2x10G SFP+ uplink are requitred technically. 4x10G ports will be oversubscribed as total traffic will not cross more then 24Gig	**Clause Amended as:** Please refer to the Corrigendum
722.	Section 6.7.19	24-Port PoE GE layer 2 Switch - Point No. 2	170	II	Switch shall support minimum 80 Gbps of stacking bandwidth and stacking port should be dedicate port not uplink port	Since stacking can be done by 2 x 10G port or stacking port hence the total stacking bandwidth will be *40Gbps.* hence request you to please modify this to "Switch shall support minimum *40 Gbps* of stacking bandwidth and stacking port should be dedicate port not uplink port" so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
723.	Section 6.7.19	24-Port PoE GE layer 2 Switch - Point No. 5	170	II	Switch shall have minimum 216 Gbps of switching fabric and 70 Mbps of forwarding rate.	The Minimum requirement for 24 port switch is very over sized for 24 port switch. For 24 port switch (24DL+24UL) =48+8(Incase of SFP) = 56Gbps only, Hence request you to please modify this to "Switch shall have minimum 56 Gbps of switching fabric and 70 Mbps of forwarding rate." so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
724.	Section 6.7.19	24-Port PoE GE layer 2 Switch - Point No. 16	170	II	Switch should support SSHv2, SNMPv2c, SNMPv3, NTPv3 and NTPv4.	As on date majority of Deployment has an NTP server for synchronization, which is based on NTPv1 to3 hence request you to please change this to " Switch should support SSHv2, SNMPv2c, SNMPv3, NTPv3" so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
725.	Section 6.7.19	24-Port PoE GE layer 2 Switch - Point No. 2	170	II	Switch shall support minimum 80 Gbps of stacking bandwidth and stacking port should be dedicate port not uplink port	Since stacking can be done by 2 x 10G port or stacking port hence the total stacking bandwidth will be **40Gbps.** hence request you to please modify this to "Switch shall support minimum **40 Gbps** of stacking bandwidth and stacking port should be dedicate port not uplink port" so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
726.	Section 6.7.19	24-Port PoE GE layer 2 Switch - Point No. 5	170	II	Switch shall have minimum 216 Gbps of switching fabric and 70 Mbps of forwarding rate.	The Minimum requirement for 24 port switch is very over sized for 24 port switch. For 24 port switch (24DL+24UL) =48+8(Incase of SFP) = 56Gbps only, Hence request you to please modify this to "Switch shall have minimum **56 Gbps** of switching fabric and 70 Mbps of forwarding rate." so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
727.	Section 6.7.19	24-Port PoE GE layer 2 Switch - Point No. 16	170	II	Switch should support SSHv2, SNMPv2c, SNMPv3, NTPv3 and NTPv4.	As on date majority of Deployment has an NTP server for synchronization, which is based on NTPv1 to3 hence request you to please change this to " Switch should support SSHv2, SNMPv2c, SNMPv3, NTPv3" so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
728.	Section 6.7.19	24-Port PoE GE layer 2 Switch	170	II	switch should support redundant power supply (internal/external)	switch should support internal redundant power supply Justification:	**Clarification:** Additional feature – "Tender

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						it is recommended to ask internal redundant PSU in ICCC DC for max uptime.	condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
729.	Section 6.7.19	24-Port PoE GE layer 2 Switch	170	II	stacking module should be hot-swappable	remove Justification: in case of any of the component failure in switch, OEMs replace the whole unit instead of repairing/replacing individual component in fixed format switches. Hence it is of no use to ask field replaceable stacking ports.	**Clarification:** Tender conditions shall prevail
730.	Section 6.7.19	24-Port PoE GE layer 2 Switch	170	II	switch shall have minimum 216Gbps of switching fabric and 70Mpps of fowarding rate	switch shall have minimum 208Gbps of switching fabric and 154Mpps of fowarding rate Justification: basis asked ports, switching fabric required is **208Gbps** with min **154Mpps** forwarding rate for non-blocking performance	**Clause Amended as:** Please refer to the Corrigendum
731.	Section 6.7.19	24-Port PoE GE layer 2 Switch - Point No. 18	171	II	Switch should support port security, DHCP snooping, Dynamic ARP inspection, IP Source guard, BPDU Guard, Spanning tree root guard and IPv6 First Hop Security.	OEM Specific terminology used hence request you to please change this to "Switch should support port security, DHCP snooping, Dynamic ARP inspection, IP Source guard, BPDU Guard, Spanning tree root guard and IPv6 First Hop Security or equivalent" so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
732.	Section 6.7.19	24-Port PoE GE layer 2 Switch - Point No. 18	171	II	Switch should support port security, DHCP snooping, Dynamic ARP inspection, IP Source guard, BPDU Guard, Spanning tree root guard and IPv6 First Hop Security.	OEM Specific terminology used hence request you to please change this to "Switch should support port security, DHCP snooping, Dynamic ARP inspection, IP Source guard, BPDU Guard, Spanning tree root guard and IPv6 First Hop Security or equivalent" so that leaders can participate.	**Clause Amended as:** Please refer to the Corrigendum
733.	Section 6.8.1	Keyboards & Joysticks - Point No.	175	II	**Keyboard and Joystick**	Mentioned specifications of Keyboard and Joystick are brand specific , please help to make it generic specfications of PTZ joystick as below: PTZ joystick controller: PTZ speed dome control for IP cameras Minimum 10 programmable buttons Multi-camera operations Compatible with all the camera models offered in the solution Compatible with VMS /Monitoring software offered	**Clause Amended as:** Please refer to the Corrigendum
734.	Section 6.8.1	Keyboard and Joystick	175	II	**Keyboard and Joystick**	Keyboard and joystick are restrictive specification which has been specified keeping one specific OEM AXIS; model number: AXIS T8310 Video Surveillance Control Board in mind, to avoid fair competition and NOT IN THE INTEREST OF AMRITSAR SMART CITY LIMITED Kindly remove Keyboard and joystick specification and include standard keyboard and joystick specification which already published in all smartcity tenders . Kindly modify the specification for fair and healthy competition as per CVC guidelines	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
735.	Section 6.8.1	Keyboard and Joystick	175	II	**Keyboard and Joystick**	Mentioned specifications of Keyboard and Joystick are brand specific , please help to make it generic specifications of PTZ joystick as below: PTZ joystick controller: PTZ speed dome control for IP cameras Minimum 10 programmable buttons Multi-camera operations Compatible with all the camera models offered in the solution Compatible with VMS /Monitoring software offered	**Clause Amended as:** Please refer to the Corrigendum
736.	Section 6.8.2	Video Wall - Point No. 1	176	II	Video wall: 50 inch cubes	Request you to consider 70" screen Size in LED Cubes Justification: 50" diagonal size of display is specific to one OEM and heading towards obsolescence. 70" screen Size in LED Cubes as the same will bring a 40% cost reduction in overall cost of video wall 70" diagonal dimensions leads to minimum screen gap as required and also minimum disturbance to operational team during maintenance.	**Clarification:** Tender conditions shall prevail
737.	Section 6.8.2	Video Wall - Point No. 13	176	II	Light Source: System should also automatically switch back to primary dvi input from hdmi input as soon as the primary dvi input is available again	Request you to remove this clause as this is specific to one OEM Justification This will ensure more OEMs to qualify	**Clause Amended as:** Please refer to the Corrigendum
738.	Section 6.8.2	Video Wall - Point No. 17	176	II	Control BD input terminals Input 2 X Digital DVI Input 1 X hdmi Input 1X HD-Base T Input 1X Display Port Output 1 X Digital DVI	INPUT: 1 X dual link DVI Must Support for screen resolutions up to 4K INPUT: 1 X HDMI /dual link DVI Justification: It can support the latest resolution without any model change & additional cost	**Clause Amended as:** Please refer to the Corrigendum
739.	Section 6.8.2	Video Wall - Point No. 1	176	II	Video wall: 50 inch cubes	Request you to consider 70" screen Size in LED Cubes Justification: 50" diagonal size of display is specific to one OEM and heading towards obsolescence. 70" screen Size in LED Cubes as the same will bring a 40% cost reduction in overall cost of video wall 70" diagonal dimensions leads to minimum screen gap as required and also minimum disturbance to operational team during maintenance.	**Clarification:** Tender conditions shall prevail
740.	Section 6.8.2	Video Wall - Point No. 13	176	II	Light Source: System should also automatically switch back to primary dvi input from hdmi input as soon as the primary dvi input is available again	Request you to remove this clause as this is specific to one OEM Justification: This will ensure more OEMs to qualify	**Clause Amended as:** Please refer to the Corrigendum
741.	Section 6.8.2	Video Wall - Point No. 17	176	II	Control BD input terminals Input 2 X Digital DVI Input 1 X hdmi Input 1X HD-Base T	INPUT: 1 X dual link DVI Must Support for screen resolutions up to 4K INPUT: 1 X HDMI /dual link DVI Justification:	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					Input 1X Display Port Output 1 X Digital DVI	It can support the latest resolution without any model change & additional cost	
742.	Section 6.8.2	Video Wall - Point No. 1	176	II	Size: 50" Cube	Please amend to **50" – 55" LCD- LED Display**. DLP is any Delta Technology therefore allow LCD for LG/Samsung and other major OEM's for the healthy competition.	**Clarification:** Tender conditions shall prevail
743.	Section 6.8.2	Video Wall - Point No. 2	176	II	Technology: Single Chip DLP Technology	Please amend to LCD-LED technology for the healthy competition.	**Clarification:** Tender conditions shall prevail
744.	Section 6.8.2	Video Wall - Point No. 4	176	II	Brightness: 240 cd/m2 or better	Please amend to 500 cd/m2 or better to avoid eye strain.	**Clarification:** Tender conditions shall prevail
745.	Section 6.8.2	Video Wall - Point No. 5	176	II	On Screen Contrast: 12,00,000:1 or better	Please amend to 5,00,000:1 or better	**Clause Amended as:** Please refer to the Corrigendum
746.	Section 6.8.2	Video Wall - Point No. 6	176	II	Display Technology: DLP rear projection with DMD Chip	Request you to change to LCD- LED Display technology as this is the latest technology in the industry.	**Clarification:** Tender conditions shall prevail
747.	Section 6.8.2	Video Wall - Point No. 9	176	II	Screen: 180 deg Viewing Angle Screen	Request you to amend to 178 degree.	**Clarification:** Tender conditions shall prevail
748.	Section 6.8.2	Video Wall - Point No. 12	176	II	Dimensions: Diagonal 50"	Request you to please amend to 55" or better to allow more OEM'/SI's to participate for the healthy competition.	**Clarification:** Tender conditions shall prevail
749.	Section 6.8.2	Video Wall - Point No. 17	176	II	Control BD Input Terminals: 2 x Digital DVI 1 x HDMI 1 x HD-BaseT 1 x Display Port Output: 1 x Digital DVI	Request you to please amend to Input: DVI x 1, HDMI x 1, DP x 1, LAN x 1, USB x 1 Output: DP x 1, RS232	**Clause Amended as:** Please refer to the Corrigendum
750.	Section 6.8.2	Video Wall - Point No. 20	176	II	Signal Input/Output: Single I link DVI In / Single link DVI Out	Not Required.	**Clause Amended as:** Please refer to the Corrigendum
751.	Section 6.8.2	Video Wall - Point No. 13	176	II	Light Source - LED - 6x redundancy	LED light source with separtate LED array for each colour (RGB) is the latest technology and 6x redudancy is the older one, therefore we request you to please change it to LED with separate array for each colour.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
752.	Section 6.8.2	Video Wall	176	II	Please add these Additional features for making the video wall more robust and smart in operations.	i. Redundant dual power supply - Cube should be equipped with a built in dual redundant power supply ii. Remote - IR remote control should also be provided for quick access iii. Cooling inside cube - By Means of a heat pipe, It should not have any hazardous liquid.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

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753.	Section 6.8.2	Video Wall - Point No. 13	176	II	Light Source - LED - 6x redundancy	LED light source with separtate LED array for each colour (RGB) is the latest technology and 6x reduadancy is the older one, therefore we request you to please change it to LED with separate array for each colour.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
754.	Section 6.8.2	Video Wall	176	II	Please add these Additional features for making the video wall more robust and smart in operations.	LED light source with separtate LED array for each colour (RGB) is the latest technology and 6x reduadancy is the older one, therefore we request you to please change it to LED with separate array for each colour. Remote - IR remote control should also be provided for quick access. Cooling inside cube - By Means of a heat pipe, It should not have any hazardous liquid.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
755.	Section 5.6.1.2	VMD Specifications.	176	II	VMD Specifications.	The specs of VamS/VMD does not have the details like pixel pitch, Viewing angle, Technology of the LED, Cabibet configuration etc. We request you to please include the details.	Query not clear
756.	Section 5.6.1.2	VMD Specifications.	176	II	VMD Specifications.	The major component of the VMD is LED therefore we request you to please includes name of the few LED makes like Nichia/Cree/Nationstar to ensure the quality product and avoid the use of low grade LEDs.	**Clarification:** Tender conditions shall prevail
757.	Section 5.6.1.2	VMD Specifications.	176	II	VMD Specifications.	We also request you to please add Certifications: BIS, CE, UL, FCC for ensuring the quality and robust product.	**Clarification:** Tender conditions shall prevail
758.	Section 5.6.1.2	VMD Specifications.	176	II	VMD Specifications.	Add Experience of installation of same type of LED Screen atleast 100+ in single network with proof to ensure the proper opertaion and support for the VMD.	**Clarification:** Tender conditions shall prevail
759.	Section 6.8.2	Video Wall	176	II	Light Source - LED - 6x redundancy	LED light source with separtate LED array for each colour (RGB) is the latest technology and 6x reduadancy is the older one, therefore we request you to please change it to LED with separate array for each colour.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
760.	Section 6.8.2	Video Wall	176	II	Please add these Additional features for making the video wall more robust and smart in operations.	Redundant dual power supply - Cube should be equipped with a built in dual redundant power supply	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
761.	Section 6.8.2	Video Wall	176	II	Please add these Additional features for making the video wall more robust and smart in operations.	Remote - IR remote control should also be provided for quick access	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder

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							may provide additional feature as per the solution requirement.
762.	Section 6.8.2	Video Wall	176	II	Please add these Additional features for making the video wall more robust and smart in operations.	Cooling inside cube - By Means of a heat pipe, It should not have any hazardous liquid.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
763.	Section 6.8.2	**Video Wall - Point 1**	176	II	Size: 50" Cube	)Please amend to 55" DLP / 55" LCD-LED Back lit Cube/Display to get latest technology which maximum brands are having like Samsung,Barco,LG,Planner,Panasonic 2) Only one or 2 Companies are manufacturing DLP Cubes & doing business in India	**Clarification:** Tender conditions shall prevail
764.	Section 6.8.2	**Video Wall - Point 2**	176	II	Technology: Single Chip DLP Technology	Please amend to LCD-LED technology for the healthy competition.	**Clarification:** Tender conditions shall prevail
765.	Section 6.8.2	**Video Wall - Point 4**	176	II	Brightness: 240 cd/m2 or better	Please amend to 700 cd/m2 or better to avoid eye strain.	**Clarification:** Tender conditions shall prevail
766.	Section 6.8.2	**Video Wall - Point 5**	176	II	On Screen Contrast: 12,00,000:1 or better	Please amend to 5,00,000:1 or better	**Clause Amended as:** Please refer to the Corrigendum
767.	Section 6.8.2	**Video Wall - Point 6**	176	II	Display Technology: DLP rear projection with DMD Chip	Request you to change to LCD- LED Display technology as this is the latest technology in the industry.	**Clarification:** Tender conditions shall prevail
768.	Section 6.8.2	**Video Wall - Point 9**	176	II	Screen: 180 deg Viewing Angle Screen	Request you to amend to 178 degree.	**Clarification:** Tender conditions shall prevail
769.	Section 6.8.2	**Video Wall - Point 12**	176	II	Dimensions: Diagonal 50"	Request you to please amend to 55" or better to allow more OEM'/SI's to participate for the healthy competition.	**Clarification:** Tender conditions shall prevail
770.	Section 6.8.2	**Video Wall - Point 17**	176	II	Control BD Input Terminals: 2 x Digital DVI 1 x HDMI 1 x HD-BaseT 1 x Display Port Output: 1 x Digital DVI	Request you to please amend to Input: DVI x 1, HDMI x 1, DP x 1, LAN x 1, USB x 1 Output: DP x 1, RS232	**Clause Amended as:** Please refer to the Corrigendum
771.	Section 6.8.2	**Video Wall - Point 20**	176	II	Signal Input/Output: Single I link DVI In / Single link DVI Out	Not Required.	**Clause Amended as:** Please refer to the Corrigendum
772.	Section 6.8.3	Video Wall Controller - Point No. 13	177	II	Form Factor: 3U 1/2 19" Rack mount housing	Request you to consider Minimum 4U Rack Mountable as this is standard size which can be fitted in any rack Justification: 4U is general standard and makes no diffrence in functionality and takes only few mm more space in rack	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
773.	Section 6.8.3	Video Wall Controller - Point No. 6	177	II	System backplane: PCI express 3.0 backplane (min 10 slots)	System backplane: PCI express 3.0 backplane (min 4 slots) or above Justification: As Each OEM has its own architecture request you to Consider minimum 4 slots or above so that other OEM Can qualify	**Clause Amended as:** Please refer to the Corrigendum
774.	Section 6.8.3	Video Wall Controller - Point No. 13	177	II	Form Factor: 3U 1/2 19" Rack mount housing	Request you to consider Minimum 4U Rack Mountable as this is standard size which can be fitted in any rack Justification: 4U is general standard and makes no diffrence in functionality and takes only few mm more space in rack	**Clause Amended as:** Please refer to the Corrigendum
775.	Section 6.8.3	Video Wall Controller - Point No. 6	177	II	System backplane: PCI express 3.0 backplane (min 10 slots)	System backplane: PCI express 3.0 backplane (min 4 slots) or above Justification: As Each OEM has its own architecture request you to Consider minimum 4 slots or above so that other OEM Can qualify	**Clause Amended as:** Please refer to the Corrigendum
776.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.3	180	II	Compatible to image sensor, focal length 8-50mm or better , full hd 1080p , Auto IRIS, Corrected IR CS mount with IR cut filter	CS mount lens comes with only box camera and focal lenth also similar so please amend this feature standard lens which is lens 2.7-13.5mm with motorized zoom.	**Clause Amended as:** Please refer to the Corrigendum
777.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.3	180	II	Lens Specs =Compatible to image sensor, Focal length 8-50 mm or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, CS Mount with IR cut filter	As CS mount lens come with box camera where lens can be changed as per the requirement ,but in Indoor dome camera the standar size of lens come is 3-10 mm . So we would like to request you to please change the lens spec:Compatible to image sensor, Focal length **3-10 mm** or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, with IR cut filter.	**Clause Amended as:** Please refer to the Corrigendum
778.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.3	180	II	Compatible to image sensor , focal length 8-50mm or better , Full HD (1080P) , Auto IRIS /P IRIS , corrected IR , CS mount with IR cut filter	Dome camera comes with Fixed/VF lens with fixed **2.8/4/6mm lens** or 2.8-12mm VF lens instead of CS mount .Requesting you kindly change it from 8-50mm CS mount to fixed lens **2.8/4/6mm or 2.8-12mm** VF lens .	**Clause Amended as:** Please refer to the Corrigendum
779.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 3	180	II	Lens Specs:Compatible to image sensor, Focal length 8-50 mm or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, CS Mount with IR cut filter	Lens Specs:Compatible to image sensor, Focal length **2.8-12 mm** or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, CS Mount with IR cut filter Clarification: Normally Dome camera will come with shorter length for fitting inside the dome, where higher length will exceed from the dome and its not suitable for dome cameras. Hence request you to amend the spec as requested.	**Clause Amended as:** Please refer to the Corrigendum
780.	Section 6.8.9	IP Dome Camera for DC surveliiance Point No. 2	180	II	**Image Sensor with WDR:** 1/3.2" with True WDR, Progressive CMOS Sensor or better	We request you to kindly modify this specification as per industry standards to **1/3" progressive scan CMOS**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
781.	Section 6.8.9	IP Dome Camera for DC surveiliance Point No. 3	180	II	**Lens specs:** Compatible to image sensor, Focal length 8-50 mm or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, CS Mount with IR cut filter	8-50 mm is the not industry standard for dome camera in DC surveillance also 8-50mm not required in Data centre . Request to modify the lens range to **2.8 -12 mm** or better , Ful HD (1080P) , Auto iris/ P iris , corrected IR, with IR cut filter	**Clause Amended as:** Please refer to the Corrigendum
782.	Section 6.8.9	IP Dome Camera for DC Surveillance Point No. 3	180	II	Lens Specs =Compatible to image sensor, Focal length 8- 50 mm or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, CS Mount with IR cut filter	As CS mount lens come with box camera where lens can be changed as per the requirement ,but in Indoor dome camera the standar size of lens come is 3-10 mm . So we would like to request you to please amend the lens spec:Compatible to image sensor, Focal length **3-10 mm** or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, with IR cut filter.	**Clause Amended as:** Please refer to the Corrigendum
783.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 3	180	II	Lens Specs:Compatible to image sensor, Focal length 8-50 mm or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, CS Mount with IR cut filter	Lens Specs:Compatible to image sensor, Focal length **2.8-12 mm** or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, CS Mount with IR cut filter Clarification: Normally Dome camera will come with shorter length for fitting inside the dome, where higher length will exceed from the dome and its not suitable for dome cameras. Hence request you to amend the spec as requested.	**Clause Amended as:** Please refer to the Corrigendum
784.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No 3	180	II	3. Lens Specs Compatible to image sensor, Focal length 8-50 mm or better, Full HD (1080P), Auto IRIS / P IRIS, Corrected IR, CS Mount with IR cut filter		Query not clear
785.	Section 6.8.9	Dome Camera - Point No 3	180	II	3. lens specs 8-50 mm focal length	Request smart city to ammend the focal length to **3-10mm** as standard size of dome camera in cctv industry, as dome camera used for more horizontal view lesser the lens size more the horizontal view	**Clause Amended as:** Please refer to the Corrigendum
786.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point no. 3	180	II	Compatible to image sensor , focal length 8-50mm or better , Full HD (1080P) , Auto IRIS /P IRIS , corrected IR , CS mount with IR cut filter	Dome camera comes with Fixed/VF lens with fixed **2.8/4/6mm lens or 2.8-12mm** VF lens instead of CS mount .Requesting you kindly change it from 8-50mm CS mount to **fixed lens 2.8/4/6mm or 2.8-12mm VF lens .**	**Clause Amended as:** Please refer to the Corrigendum
787.	Section 6.8.9	IP Dome camera for DC surveilliance - Point No. 3	180	II	Compatible to image sensor, focal length 8-50mm or better , full hd 1080p , Auto IRIS, Corrected IR CS mount with IR cut filter	CS mount lens comes with only box camera and focal lenth also similar so please amend this feature standard lens which is lens 2.7-13.5mm with motorized zoom.	**Clause Amended as:** Please refer to the Corrigendum
788.	Section 6.8.9	**IP Dome Camera for DC Surveillance - Point No. 3**	180	II	Compatible to image sensor, focal length 8-50mm or better , full hd 1080p , Auto IRIS, Corrected IR CS mount with IR cut filter	CS mount lens comes with only box camera and focal lenth also similar so please amend this feature standard lens which is lens 2.7-13.5mm with motorized zoom.	**Clause Amended as:** Please refer to the Corrigendum

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789.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.22	181	II	Security: Vandal and impact resistant housing ,IK10 ,IP66 NEMA 4x	Nema 4X means Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice on the enclosure which is equivalent to IP66. Thus, requesting you to ammend the clause to Security: Vandal and impact resistant housing ,IK10 **,IP66/ NEMA 4x**	**Clause Amended as:** Please refer to the Corrigendum
790.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.26	181	II	IR Illuminator: External/ Build in IR Illuminator with minimum 50 meters.	Dome cameras are used to cover short distance of not more than 20-25m used for Indoor enviornment , which is standard available in the video surveillance industry.Thus, requesting to ammend the clause to External/ Build in IR Illuminator with minimum **30 meters**	**Clause Amended as:** Please refer to the Corrigendum
791.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.16	181	II	Certifications:UL,CE, C83FCC,ONVIF 2.X/S	Please help to clarify the certificate of C83FCC	**Clause Amended as:** Please refer to the Corrigendum
792.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 24	181	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection level. Hence request you to remove the clause as requested	**Clarification:** Tender conditions shall prevail
793.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 26	181	II	IR Illuminator:External / build-in IR Illuminator with minimum 50 meters. In case of external, "IR Illuminator" section to be referred	IR Illuminator:External / build-in IR Illuminator with minimum **30 meters**. In case of external, "IR Illuminator" section to be referred Clarification: For inddor Dome cameras will come inbuilt IR illuminator with 30meter by default. Hence request you to amend the spec as requested.	**Clause Amended as:** Please refer to the Corrigendum
794.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.14	181	II	Operating Humidity=0% to 90% for cameras	For the Indoor dome camera the standar humidity condition is **10-85 %** , So we would like to request to change it to **10 - 85 %**	**Clause Amended as:** Please refer to the Corrigendum
795.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.16	181	II	Certifications:UL, CE, C83FCC, ONVIF 2.X/S	Please clear about C83FCC certifcation ? Any word missing in this or it is complete ?..it appears only specific oem can comply to this clause. Kindly remove	**Clause Amended as:** Please refer to the Corrigendum
796.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.18	181	II	Streaming =The camera shall be able to setup and stream out minimum two (2) stream profiles. Each stream profile can have its own compression, resolution,	As in Smart city project there are mutliple of application that require a separate video stream from the CCTV camera (eg. Recording ,LIVE,Remote View,ANPR /RLVD aplication ,any other analytic). So we would like to request you to change the no of **stream minimum to**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					frame rate and quality independently.	**4 at** 2Mp,25/30 FPS ,H.264 that are indpendently configure as per the uses.	
797.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.22	181	II	Security =Vandal and impact resistant housing, IK 10, IP66, NEMA4X	As camera is used for the indoor enviornment ,so we would like to request to change it to:Vandal and impact resistant housing, **IK 08, IP52** .	**Clause Amended as:** Please refer to the Corrigendum
798.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.26	181	II	IR Illuminator = External / build-in IR Illuminator with minimum 50 meters. In case of external, "IR Illuminator" section to be referred	As for a fix dome camera with requested 3-10 mm lens is well compatible give good quality of vedio in night time . We would like to request you:Pls change to:External / built-in IR Illuminator with minimum 30 meters. In built IR can provide **30 mtrs IR**. Hence kindly change	**Clause Amended as:** Please refer to the Corrigendum
799.	Section 6.8.9	IP Dome Camera for DC surveliiance - Point No. 16	181	II	**Certifications:** UL, CE, C83FCC, ONVIF 2.X/S	Request to modify as CE,FCC,RoHS,UL,Onvif 2.x /s	**Clause Amended as:** Please refer to the Corrigendum
800.	Section 6.8.9	Emergency Call Box with Panic Button - Point No. 26	181	II	**IR Illuminator:** External / build-in IR Illuminator with minimum 50 meters. In case of external, "IR Illuminator" section to be referred	50 Meter IR Illuminator is not required for Data center , request to modify the clause as External / build-in IR Illuminator with minimum **30 meters**. In case of external, "IR Illuminator" section to be referred	**Clause Amended as:** Please refer to the Corrigendum
801.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 14	181	II	Operating Humidity=0% to 90% for cameras	For the Indoor dome camera the standar humidity condition is **10-85 %** , So we would like to request to amend it to **10 -85 %**	**Clause Amended as:** Please refer to the Corrigendum
802.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 16	181	II	Certifications:UL, CE, C83FCC, ONVIF 2.X/S	Please clear about C83FCC certifcation ? Any word missing in this or it is complete ?..it appears only specific oem can comply to this clause. Kindly exclude	**Clause Amended as:** Please refer to the Corrigendum
803.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 18	181	II	Streaming =The camera shall be able to setup and stream out minimum two (2) stream profiles. Each stream profile can have its own compression, resolution, frame rate and quality independently.	As in Smart city project there are mutliple of application that require a separate video stream from the CCTV camera (eg. Recording ,LIVE,Remote View,ANPR /RLVD aplication ,any other analytic). So we would like to request you to amend the **no of stream minimum to 4** at 2Mp,25/30 FPS ,H.264 that are indpendently configure as per the uses.	**Clause Amended as:** Please refer to the Corrigendum
804.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 22	181	II	Security =Vandal and impact resistant housing, IK 10, IP66, NEMA 4X	As camera is used for the indoor enviornment ,so we would like to request to amend it to Vandal and impact resistant housing, **IK 08, IP52**	**Clause Amended as:** Please refer to the Corrigendum
805.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 26	181	II	IR Illuminator = External / build-in IR Illuminator with minimum 50 meters. In case of external, "IR Illuminator" section to be referred	As for a fix dome camera with requested 3-10 mm lens is well compatible give good quality of vedio in night time . We would like to request you:Pls change to:External / built-in IR Illuminator with minimum 30 meters. In built IR can provide **30 mtrs IR.** Hence kindly amend	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
806.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No. 24	181	II	Functional:Self-cleaning / anti-dust / hydro-phobic coating features	Please remove Clarification: As the camera wont come with self cleaning and also regaridng Dust protection already asked the protection level. Hence request you to remove the clause as requested	**Clarification:** Tender conditions shall prevail
807.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No.26	181	II	IR Illuminator:External / build-in IR Illuminator with minimum 50 meters. In case of external, "IR Illuminator" section to be referred	IR Illuminator:External / build-in IR Illuminator with minimum **30 meters**. In case of external, "IR Illuminator" section to be referred Clarification: For inddor Dome cameras will come inbuilt IR illuminator with 30meter by default. Hence request you to amend the spec as requested.	**Clause Amended as:** Please refer to the Corrigendum
808.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No 5	181	II	5. Minimum illumination| Colour: 0.3 lux or better, B/W: 0.05 lux or better	Kindly add the minimum illimination at **0 Lux** with IR on. In critical Data center scenario it is a must have feature which would be helpful to capture even in event of zero light conditions.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
809.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point No 15	181	II	15. Enclosure / Casing:IP 66	Kindly change **IP66 to IP67** . Also kindly make IP67 & Ik 10 Mandatory. These features come by default at no additional cost hence please incorporate the same for the best interest of the project	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
810.	Section 6.8.9	Dome Camera - Point No 26	181	II	26. IR Illuminator external/built in 50 meter	Request smart city to ammend the IR RANGE OF 30 METER for dome camera in cctv industry, as dome camera used for more horizontal view lesser the lens size more the horizontal view and **30 meter** is suffcent for Dome camera	**Clause Amended as:** Please refer to the Corrigendum
811.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point no. 22	181	II	Security: Vandal and impact resistant housing ,IK10 ,IP66 NEMA 4x	Nema 4X means Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice on the enclosure which is equivalent to IP66. Thus, requesting you to amend the clause to Security: Vandal and impact resistant housing ,IK10 ,**IP66/ NEMA 4x**	**Clause Amended as:** Please refer to the Corrigendum
812.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point no. 26	181	II	IR Illuminator: External/ Build in IR Illuminator with minimum 50 meters.	Dome cameras are used to cover short distance of not more than **20-25m** used for Indoor enviornment , which is standard available in the video surveillance industry.Thus, requesting to amend the clause to External/ Build in IR Illuminator with minimum **30 meters**	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
813.	Section 6.8.9	IP Dome Camera for DC Surveillance - Point no. 16	181	II	Certifications:UL,CE, C83FCC,ONVIF 2.X/S	Please help to clarify the certificate of C83FCC	**Clause Amended as:** Please refer to the Corrigendum
814.	Section 6.9.10	Online UPS 60 KVA and 20 KVA - Point No. 1	201	II	UPS Load Distribution	This shall also include the technology with addition **"Modular, Scalable & Hot Swappable feature for 60kva Online UPS System with module size of min. 20kva"** as it serves the critical Servers at Data Centres	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
815.	Section 6.9.10	Online UPS 60 KVA and 20 KVA - Point No. 2	201	II	Input range	Instead of +10% & - 15% , this input range must be wider with 305-475VAC so as to increase the battery life by reducing its usage freqently	**Clarification:** Tender conditions shall prevail
816.	Section 6.9.10	Online UPS 60 KVA and 20 KVA - Point No. 20	202	II	Temperature range	0 to 50 deg C is with de-rating in capacity & applies same with any OEM. Pl clarify as 0 to 40 deg C with full capacity is the creteria to mention	**Clause Amended as:** Please refer to the Corrigendum
817.	Section 6.9.10	Online UPS 60 KVA and 20 KVA - Point No. 29	203	II	Compact footprint	For better foot print, the 60kva UPS shall be changed to Modular type & this also provide the feature of Modular, Scalable & Hot Swappable at site	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
818.	Section 6.9.10	Online UPS 60 KVA and 20 KVA - Point No. 30	203	II	Front Access	Front acess is ok but rear acess is required for some part or chasis maintanance/repairing	**Clarification:** Tender conditions shall prevail
819.	Section 6.9.10	Online UPS 60 KVA and 20 KVA - Point No. 31	203	II	O/p Power factor	It shall be 0.8 or more as per industry standard. And if better O/p Power factor is desired, the Unity PF shall be asked at O/o side	**Clause Amended as:** Please refer to the Corrigendum
820.	Section 6.9.10	Online UPS 60 KVA and 20 KVA - Point No. 34	203	II	Inbuilt Transformer is desired	**For 60kva ->** This shall be asked as "external at input side to protect Bypass as well". This is as per industry standard & shall allow other reputed player for healthy competition	**Clarification:** Tender conditions shall prevail
821.	Section 6.10.2	IP PBX & Voice Router - Point No. 9	205	II	Should support signalling standards/ Protocols – SIP, MGCP, H.323, Q.Sig	MGCP is OEM Proprietry , request to remove the same	**Clause Amended as:** Please refer to the Corrigendum
822.	Section 6.10.2	IP-PBX and Voice Router - Point No. 9	205	II	Should support signalling standards/ Protocols – SIP, MGCP, H.323, Q.Sig	MGCP is OEM Proprietry , request to remove the same	**Clause Amended as:** Please refer to the Corrigendum
823.	Section 6.10.3	IVR & ACD - Point No. 4	206	II	ACD should support call routing based on longest available agent, circular agent selection algorithms.	Solution support Longest available agent and multiple level of contacts can be associated to each customer data. Circular agent is not an algorithimic routing pattern and not required , request to remove Circular agent algorithm Remarks: Circualr is not a routing alogorith and specific to an OEM in the domain.	**Clause Amended as:** Please refer to the Corrigendum

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824.	Section 6.10.3	IVR & ACD - Point No. 9	206	II	In future if required, the ACD should support active and standby server mode, where the server can be put in DC and DR. ACD solution should support placing of Main and Standby Server in DC and DR respectively.	Pls amend it to: In future if required, the solution should support active and standby server mode, where the server can be put in DC and DR. solution should support placing of Main and Standby Server in DC and DR respectively. Remarks: Many OEM have different way of deploying the solution. ACD redundancy is specific to a OEM, however the solution should be redundant.	**Clause Amended as:** Please refer to the Corrigendum
825.	Section 6.10.3	IVR & ACD - Point No. 12	206	II	IVR should support VoiceXML for ASR, TTS, and DTMF call flows	IVR Application proposed is DTMF based however can support ASR / TTS in future. A detailed discussion required on ASR / TTS and needs to be scoped as additional	**Clause Amended as:** Please refer to the Corrigendum
826.	Section 6.10.3	IVR & ACD - Point No. 4	206	II	ACD should support call routing based on longest available agent, circular agent selection algorithms.	Solution support Longest available agent and multiple level of contacts can be associated to each customer data. Circular agent is not an algorithimic routing pattern and not required , request to remove Circular agent algorithm	**Clause Amended as:** Please refer to the Corrigendum
827.	Section 6.10.3	IVR & ACD - Point No. 9	206	II	In future if required, the ACD should support active and standby server mode, where the server can be put in DC and DR. ACD solution should support placing of Main and Standby Server in DC and DR respectively.	Pls amend it to: In future if required, the solution should support active and standby server mode, where the server can be put in DC and DR. solution should support placing of Main and Standby Server in DC and DR respectively.	**Clause Amended as:** Please refer to the Corrigendum
828.	Section 6.10.3	IVR & ACD - Point No. 12	206	II	IVR should support VoiceXML for ASR, TTS, and DTMF call flows	IVR Application proposed is DTMF based however can support ASR / TTS in future. A detailed discussion required on ASR / TTS and needs to be scoped as additional	**Clause Amended as:** Please refer to the Corrigendum
829.	Section 6.10.3	IVR & ACD - Point No. 4	206	II	ACD should support call routing based on longest available agent, circular agent selection algorithms.	Solution support Longest available agent and multiple level of contacts can be associated to each customer data. Circular agent is not an algorithimic routing pattern and not required , request to remove Circular agent algorithm Circualr is not a routing alogorith and specific to an OEM in the domain.	**Clause Amended as:** Please refer to the Corrigendum
830.	Section 6.10.3	IVR & ACD - Point No. 9	206	II	In future if required, the ACD should support active and standby server mode, where the server can be put in DC and DR. ACD solution should support placing of Main and Standby Server in DC and DR respectively.	Pls amend it to: In future if required, the solution should support active and standby server mode, where the server can be put in DC and DR. solution should support placing of Main and Standby Server in DC and DR respectively. Many OEM have different way of deploying the solution. ACD redundancy is specific to a OEM, however the solution should be redundant.	**Clause Amended as:** Please refer to the Corrigendum
831.	Section 6.10.3	IVR & ACD - Point No. 16	207	II	Reporting platform to support custom reports using a combination of the Crystal Reports Developer's Toolkit and SQL stored procedures.	Please amend it to: Reporting platform to support custom reports using a combination of the Crystal Reports Developer's Toolkit and SQL stored procedures / Microsoft SQL Server Reporting Services Remarks: Microsoft SQL Server Reporting Services reporting tool	**Clause Amended as:** Please refer to the Corrigendum

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						can be used as a replacement to Cyrstal reports for custom report creation, as the other is not used by us.	
832.	Section 6.10.3	NA	207	II	Additional point	Pls amend it to: The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording) should be from a single OEM Remarks: When deploying an MCU, you ask software, MCU and end point from same OEM, similarly the ask in Call center for intergration, accountability and keep local players who don't have a complete solution.	**Clarification:** Tender conditions shall prevail
833.	Section 6.10.3	NA	207	II	Additional point	Please also add: The call center OEM should have been deployed in atleast two Emergency response systems in India handling over 50,000 calls per day Remarks: In all tender Bidder PQ os asked but what about the OEMPQ. To get stable, tetsted , to withstand cyber attacks and keep away cheap chinese products away which are non -reliabled and unsecured. This will allow only top 4 vendors of call center market. The same is also asked in Faridabad, lucknow kanpur, etc tenders.	**Clarification:** Tender conditions shall prevail
834.	Section 6.10.3	NA	207	II	Additional Query	Kindly confirm if the Citizen Contact center will run 24x7 with 3 shifts of agents , Kindly confirm the number of Agents shift wise if applicable	**Clarification:** Citizen Contact centre is not planned under the scope of project
835.	Section 6.10.3	NA	207	II	Additional Query	Kindly confirm if Citizen Contact Center should also be part of Disaster Recovery. If yes, what all Contact Center components should be part of DR site.	**Clarification:** Citizen Contact centre is not planned under the scope of project
836.	Section 6.10.3	NA	207	II	Additional Query	Kindly confirm if the agents needs to be provided with softphone or hardphone capability	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
837.	Section 6.10.3	NA	207	II	Additional Query	Kindly confirm the distribution of Agent license in a shift for voice, email and chat channels	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
838.	Section 6.10.3	IVR & ACD - Point No. 16	207	II	Reporting platform to support custom reports using a combination of the Crystal Reports Developer's Toolkit and SQL stored procedures.	Please amend it to: Reporting platform to support custom reports using a combination of the Crystal Reports Developer's Toolkit and SQL stored procedures / Microsoft SQL Server Reporting Services	**Clause Amended as:** Please refer to the Corrigendum
839.	Section 6.10.3	IVR & ACD	207	II	Additional point	Pls amend it to: The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording) should be from a single OEM	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
840.	Section 6.10.3	IVR & ACD	207	II	Additional point	Please also add: The call center OEM should have been deployed in atleast two Emergency response systems in India handling over 50,000 calls per day	**Clarification:** Tender conditions shall prevail
841.	Section 6.10.3	IVR & ACD	207	II	Additional Query	Kindly confirm if the Citizen Contact center will run 24x7 with 3 shifts of agents , Kindly confirm the number of Agents shift wise if applicable	**Clarification:** Citizen Contact centre is not planned under the scope of project
842.	Section 6.10.3	IVR & ACD	207	II	Additional Query	Kindly confirm if Citizen Contact Center should also be part of Disaster Recovery. If yes, what all Contact Center components should be part of DR site.	**Clarification:** Citizen Contact centre is not planned under the scope of project
843.	Section 6.10.3	IVR & ACD	207	II	Additional Query	Kindly confirm if the agents needs to be provided with softphone or hardphone capability	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
844.	Section 6.10.3	IVR & ACD	207	II	Additional Query	Kindly confirm the distribution of Agent license in a shift for voice, email and chat channels	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
845.	Section 6.10.3	IVR & ACD - Point No. 16	207	II	Reporting platform to support custom reports using a combination of the Crystal Reports Developer's Toolkit and SQL stored procedures.	Please amend it to: Reporting platform to support custom reports using a combination of the Crystal Reports Developer's Toolkit and SQL stored procedures **/ Microsoft SQL Server Reporting Services** Microsoft SQL Server Reporting Services reporting tool can be used as a replacement to Cyrstal reports for custom report creation, as the other is not used by us.	**Clause Amended as:** Please refer to the Corrigendum
846.	Section 6.10.3	IVR & ACD	207	II	Additional point	Pls amend it to: The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording) should be from a single OEM When deploying an MCU, you ask software, MCU and end point from same OEM, similarly the ask in Call center for intergration, accountability and keep local players who don't have a complete solution.	**Clarification:** Tender conditions shall prevail
847.	Section 6.10.3	IVR & ACD	207	II	Additional point	Please also add: The call center OEM should have been deployed in atleast two Emergency response systems in India handling over 50,000 calls per day In all tender Bidder PQ os asked but what about the OEMPQ. To get stable, tetsted , to withstand cyber attacks and keep away cheap chinese products away which are non -reliabled and unsecured. This will allow only top 4 vendors of call center market. The same is also asked in Faridabad, lucknow kanpur, etc tenders.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
848.	Section 7	Integrated Command Control Centre (ICCC) Platform - Point No. 1	208	II	• It is envisaged that the city shall implement multiple Smart City use cases over a period of time. The potential example Smart City use cases are Smart Traffic, Smart Parking, Smart Lighting, Energy Metering, Water Metering, CCTV, Public Transport and other integrations as per defined scope. • The platform shall also allow the manufacturers of the sensors to develop integrations themselves using SDKs without affecting the northbound applications and existing integration. • The platform shall be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers. • The platform shall support distributed deployment of functions (workflows & policies) across city's network and compute infrastructure with centralized management and control.		**Clause Amended as:** Please refer to the Corrigendum
849.	Section 7	Integrated Command Control Centre (ICCC) Platform - Point No. 2	208	II	GIS Map Support System shall support ESRI, Map Box, Open street etc. GIS and Map Servers	Please specify the functional and technical specifications for the Enterprise GIS server required for the project?	**Clarification:** Enterprise GIS server is not required for the project
850.	Section 7	Integrated Command Control Centre (ICCC) Platform - Point No. 3	208	II	Location engine · Map services and geospatial coordinates: provides the geographical coordinates of specific facilities, roads, and city infrastructure assets, as well as unmapped facilities. · Geospatial calculation: calculates distance between two or more locations on the map.	We understand that GIS data (Spatial and non spatial) fo the city infrastructure will be provided by authrity. Please clarify?	**Clarification:** GIS data (Spatial and non spatial) for the city infrastructure will be provided by authority
851.	Section 7.1.1	Integrated Command Control Centre (ICCC) Platform - Point No. 4	208	II	Map services and geospatial coordinates; provides the geographical coordinates of specific facilities, Roads and City infrastructure assets, as well as Unmapped facilities	1- Who will give detail information about different facilities: Will department provides it. 2- What is the scope of Survey in relates to GIS: Creating/Updating base maps and other MIS information relates to GIS layers. 3- Who will provide the unmapped facilities and other information?	**Clarification:** GIS data (Spatial and non-spatial) for the city infrastructure will be provided by authority

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
852.	Section 7.1	Integrated Command & Control Centre (ICCC) Platform - Point No. 1	208	II	The platform shall support distributed deployment of functions (workflows and Policies) across the city network	As per the RFP, Workflow Management Solution required by Amritsar smart city for automating various document intensive processes in the system should have capabilities such as graphically modeling the processes or workflows, rule engine to store policies, and integrated Document Management System (Electronic Content Management) for storing documents. Please confirm.	**Clarification** Integrated Document Management System for storing documents and Workflow Management Solution are not required under the current scope of the RFP
853.	Section 7.1	Integrated Command & Control Centre (ICCC) Platform - Point No. 1	208	II	The platform shall support distributed deployment of functions (workflows and Policies) across the city network	As per our understanding, Amritsar smart city has the requirement for flexible and configurable workflow engine to handle complex workflows including multi-level hierarchical workflows.Based on that, our understanding is that the Amritsar smart city needs a Business Process Management (BPM) platform having the capabilities of graphically modeling the processes or workflows, in built Form designer, process simulator, configurable Business Activity Monitoring tool (Dashboards) and inbuilt Document Management System for storing documents. kindly confirm.	**Clarification** Business Process Management (BPM) Platform and Configurabe Workflow is not required under the current scope of the RFP
854.	Section 7.1	Integrated Command & Control Centre (ICCC) Platform	208	II	The platform shall support distributed deployment of functions (workflows and Policies) across the city network	Workflow Management System is one of the most important requirement of this RFP. All the workflows mentioned in Core and Common modules will be configured over Workflow Management System. Therefore, the Workflow engine should be configurable in order to provide the flexibility in terms of making changes in the existing workflows, adding new workflows, changing routing rules, introducing new business rules, etc. So our recommendation is that the department needs COTS based Business Process Management (BPM) platform having the capabilities of graphically modeling the processes or workflows, in built Form designer, process simulator, configurable Business Activity Monitoring tool (Dashboards) and integrated Document Management System for storing documents. Please confirm.	**Clarification** Integrated Document Management System for storing documents and Workflow Management Solution are not required under the current scope of the RFP
855.	Section 7.1.1	Integrated Command Control Centre (ICCC) Platform - Point No. 1	208	II	GIS Map Support System shall support ESRI, Map Box, Open street etc. GIS and Map Servers	Please specify the functional and technical specifications for the Enterprise GIS server required for the project?	**Clarification:** Enterprise GIS server is not required for the project
856.	Section 7.1.1	Integrated Command Control Centre (ICCC) Platform - Point No. 3	208	II	Location engine · Map services and geospatial coordinates: provides the geographical coordinates of specific facilities, roads, and city infrastructure assets, as well as unmapped facilities.	We understand that GIS data (Spatial and non spatial) fo the city infrastructure will be provided by authrity. Please clarify?	**Clarification:** GIS data (Spatial and non spatial) for the city infrastructure will be provided by authority

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					· Geospatial calculation: calculates distance between two or more locations on the map.		
857.	Section 7.1.1	Integrated Command Control Centre (ICCC) Platform - Point No. 25	210	II	System shall generate notification, Alert and Alarm message that shall be visible within Dashboard/GIS Platform and the Enforcement Officer Mobile Aps if required	1- GIS platform: what type of platform required - web-based/enterprise or Desktop? 2-What are the technical Specification of GIS platform? 3- What are the module required or to be developed for web portal?	**Clarification:** Functionality is envisioned under the ICCC platform
858.	Section 7.1.1	Integrated Command Control Centre (ICCC) Platform - Point No. 40	212	II	Smart City Platform/Software provider shall be global Member of Smart Cities Council & Navigant Research Report for Smart Cities Suppliers.	The Navigant Research Leaderboard Report is for Smart Cities Suppliers group and not specific to COC/CCC hence the same cannot be a parameter for qualification or for any additional weightage for CCC/COC credibility. Moreover r as per the letter issued by MoUD dated 27th April, D.O. No. K-14012/101/(17)/2017-SC-III-A,the clauses like OEM's listed in the Gartner/Navigant/IDC and other foreign reports are deemed to be restrictive and work against the spirit of Make in India initiative. Unlike the quality certifications/ assessments for ISO and CMMI, the Navigant leaderboard report contains the views expressed by analysts and should not be construed as statements of facts. Furthermore Navigant is not a leading market research company unlike the major known names.Hence we request you to remove the Navigant Research Leaderboard report condition.	**Clause Amended as:** Please refer to the Corrigendum
859.	Section 7.1.1	integrated Command Control center (ICCC) platform - Point No. 40	212	II	Smart City platform/software provider shall be global member of Smart Cities council & Navigant research report for Smart Cities Suppliers.	This clause limits the Smart City Suppliers who are Global OEM's. This clause is only favourable to global companies and is restrictive. This must be modified. We feel that the Experience in India should be adequate. It limits the Smart City Suppliers who are only listed only in the Smart City Council / Navigant leaders quadrant - namely two to give compliance to the Smart City Platform / Software. We feel this is very restrictive and therefore should be dropped. We would also like to inform about the Letter released by MOUD (attached) which clearly states that foreign certifications must not be used in smart city bids to select the OEM's	**Clause Amended as:** Please refer to the Corrigendum
860.	Section 7.1.1	integrated Command Control center (ICCC) platform - Point No. 40	212	II	Smart City platform/software provider shall be global member of Smart Cities council & Navigant research report for Smart Cities Suppliers.	This clause limits the Smart City Suppliers who are Global OEM's. This clause is only favourable to global companies and is restrictive. This must be modified. We feel that the Experience in India should be adequate. It limits the Smart City Suppliers who are only listed only in the Smart City Council / Navigant leaders quadrant - namely two to give compliance to the Smart City Platform / Software. We feel this is very restrictive	**Clause Amended as:** Please refer to the Corrigendum

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						and therefore should be dropped. We would also like to inform about the Letter released by MOUD (attached) which clearly states that foreign certifications must not be used in smart city bids to select the OEM's	
861.	Section 7.1.1	integrated Command Control center (ICCC) platform - Point No. 40	212	II	Smart City platform/software provider shall be global member of Smart Cities council & Navigant research report for Smart Cities Suppliers.	This clause limits the Smart City Suppliers who are Global OEM's. This clause is only favourable to global companies and is restrictive. This must be modified. We feel that the Experience in India should be adequate. It limits the Smart City Suppliers who are only listed only in the **Smart City Council / Navigant leaders quadrant** - namely two to give compliance to the Smart City Platform / Software. We feel this is very restrictive and therefore should be dropped. We would also like to inform about the Letter released by MOUD (attached) which clearly states that foreign certifications must not be used in smart city bids to select the OEM's	**Clause Amended as:** Please refer to the Corrigendum
862.	Section 7.1.1	Integrated Command Control Center (ICCC) Platform Point No. 40	212	II	Smart city Platform/Software provider shall be globle Member of smart cities Council & Navigant Research Report for smart Cities suppliers.	Globle Member of **"Smart Cities Council" & Listing in the " Naigation Reserach Report"** does not necessarily mean any additional functionality and/or commercial advantage to the customer except for increasing the cost and making it restrictive for the other ICCC/OCC software players/vendors (Make In India), which may have a better product both technically & functionally (no compromise on quality) clubbed with agressive commercials. Therefore for the sake of offering a Level Playing Field, for the ultimate benefit of the state / national exchequer and in line with the Make in India Policy of Government of Inida, it is suggested & requested to you to waive off / delete cluase "Smart city Platform/Software provider shall be globle Member of smart cities Council & Navigant Research Report for smart Cities suppliers."	**Clause Amended as:** Please refer to the Corrigendum
863.	Section 7.1.1	integrated Command Control center (ICCC) platform - Point No. 40	212	II	Smart City platform/software provider shall be global member of Smart Cities council & Navigant research report for Smart Cities Suppliers.	This clause limits the Smart City Suppliers who are Global OEM's. This clause is only favourable to global companies and is restrictive. This must be modified. We feel that the Experience in India should be adequate. It limits the Smart City Suppliers who are only listed only in the **Smart City Council / Navigant leaders quadrant** - namely two to give compliance to the Smart City Platform / Software. We feel this is very restrictive and therefore should be dropped. We would also like to inform about the Letter released	**Clause Amended as:** Please refer to the Corrigendum

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						by MOUD (attached) which clearly states that foreign certifications must not be used in smart city bids to select the OEM's	
864.	Section 5.3.5.1	Video Analytics Functional Requirements	212	II	5.3.5.1. Video Analytics Functional Requirements	Kindly consider the Deep learning based analytics as most of the smart city authorities are using this. Additional Point: Advanced Deep learning video analytics and 3D Calibration: The bidder shall be responsible for designing and implementing Artificial Intelligence Based Intelligent Video Analytics on the Edge / Central based for all Cameras as per city requirements for all the use cases. VMS, Video analytics and Artificial intelligence should be of same make for tight and integrated solution. Minimum 4 use-cases for Video Analytics Software over minimum 25 Cameras & above based on deep learning and 3D Calibration deployed in India in last 3 Years. Bidder to provide minimun 4 different project details in India with Customer completion & PO for satisfactory performance A. Deep learning and 3D calibrated analytics • Parking violation • Garbage bin, cleaned or not • Vehicle stopped for long • Wrong way or illegal turn detection • Land Encroachment • Abandoned Bag • Graffiti and Vandalism detection • Detection and classification of human, animal and vehicle • Loitering detection • Person climbing barricade • Person collapsing • Crowd Detection • Intrusion detection	**Clarification:** Additional component – "Tender conditions shall prevail". The Bidder may provide additional component as per the solution requirement.
865.	Section 7.1.1	Integrated Command Control Centre (ICCC) Platform - Point No. 56 (b)	213	II	The solution shall integrate with GIS and map information and be able to dynamically update information on the GIS maps to show status of resources.	As there is a requirement of integration with GIS system and map data updation and informationwith dynamic updates . We strongly feel there is requirement of GIS platform and software to manage the same. Please clarify the GIS platform scope of work?	**Clarification:** Tender conditions shall prevail
866.	Section 7.1.1	Integrated Command Control Centre (ICCC) Platform - Point No. 56	213	II	The solution shall integrate with GIS and map information and be able to dynamically update information on the GIS maps to show status of resources.	As there is a requirement of integration with GIS system and map data updation and informationwith dynamic updates . We strongly feel there is requirement of GIS platform and software to manage the same. Please clarify the GIS platform scope of work?	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
867.	Section 7.1.2	Enterprise Content & Document management System	215	II	Enterprise content and document management system	Request you to include the following specification to ensure best of breed solution: The proposed Document Management System should have at least one live implementation site in India with more than 10 crores document archived in document management repository with more than 10000 users using this Document Management System considering the scalability Amritsar smart city is looking for. Kindly confirm.	**Clause Amended as:** Please refer to the Corrigendum
868.	Section 7.1.2	Enterprise Content & Document management System - Point No. 19	216	II	Provision of putting shared and secured notes for collaborative working on workitems	As per our understanding this requirement is pertaining to view the notes which different individals make on the docuemts while accessing it from the workflow, it should be visible to the users basis the access rights.	**Clause Amended as:** Please refer to the Corrigendum
869.	Section 7.1.2	Enterprise Content & Document management System - Point No. 28	217	II	The system shall allow content syndication service via xml based feeds, email alerts etc	As per our understanding the document management system allows to store information related to article, video through webservices.	**Clause Amended as:** Please refer to the Corrigendum
870.	Section 7.1.3	Enterprise Management System (EMS) - Point No. 6	220	II	Solution should provide for future scalability of the whole system without major architectural change	To ensure that the proposed NMS/EMS is proven at the scalability required for the said project and is operational in the Indian Public Sector space and thereby avoid risk of being a test bed for solutions not known to scale up to the requisite levels. **Hence request you to please confirm and include the specification if the proposed EMS/NMS solution MUST have at least 3 deployments in Indian Government/ Public Sector, monitoring & managing 10,000+ network nodes in each of such deployments. Customer names, solution details and OEM undertaking needs to be provided at the time of bidding?**	**Clarification:** Tender conditions shall prevail
871.	Section 7.1.3	Enterprise Management System (EMS) - Point No. 7	220	II	Solution should be distributed, and scalable and open to third party integration	Please confirm and include the specification if the same is accepted for Data Center EMS: **"There should be a tight bi-directional integration between NOC and SOC to have the single consolidated console of Infrastructure & security events."**	**Clarification:** Tender conditions shall prevail
872.	Section 7.1.3	Enterprise Management System (EMS) - Point No. 1	220	II	Enterprise Management System should provide for end to end performance, availability, fault and event and impact management for all enterprise resources that encompasses the hetrogeneous networks, systems, applications, databases and client infrastructure present in the enterprise.	Solution having been analysed & recognized by leading analysts ensures that an industry standard solution is being proposed. This is important because as NMS/EMS is the only solution that gives visibility into the project and is responsible for SLA measurements and audits, and therefore all the stakeholders must agree to the reports been generated from NMS/EMS. This warrants an industry-standard solution. **Hence request you to please confirm and include**	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						the specification if the proposed NMS/EMS must be analysed and recognized by leading industry analysts – Gartner/ Forrester/ IDC?	
873.	Section 7.1.3	Enterprise Management System (EMS) - Point No. 7	220	II	Solution should be distributed, and scalable and open to third party integration	NMS/EMS consists of multiple components. Having all these components from the same OEM will ensure that the components are pre-integrated and adequately tested and hence time to value realization is quick and issues of integration does not arise. **Hence request you to please confirm and include the specification if all the NMS and EMS components must be from the same OEM?**	**Clarification:** Tender conditions shall prevail
874.	Section 7.1.3	Enterprise Management Solution (EMS) - Point No. 20	222	II	Point 20 - Should support compliance and cost trending to assist in identifying areas for process and operational improvements	Seems like proprietary clause. Please share use case or explain the requirement	**Clause Amended as:** Please refer to the Corrigendum
875.	Section 7.1.3	Enterprise Management Solution (EMS) - Point No. 25	222	II	Point 25 - Should support cross platform and reusable packaging with built-in rollback support	Need more clarification	**Clause Amended as:** Please refer to the Corrigendum
876.	Section 7.1.3	Enterprise Management System (EMS) - Point No. 92	231	II	92. The proposed helpdesk system shall support ITIL processes like request management, problem management, configuration management and change order management with out-of-the-box templates for various ITIL service support processes.	The most mature way for selection of at least three top IT organizations and for selection of mature IT service management solution. Multiple leading Service Management OEMs are listed under Pink Elephant certifications website. **Hence our submission is to include this requirement in the Helpdesk specification: "The proposed Helpdesk tool must be ITIL Gold-level certified by Pink Elephant on at least 10+ ITIL V3 2011 processes: Incident management, Problem Management, Change Management, Knowledge Management, Service Level Management, Service Asset and Configuration management, Service Catalogue and Request Fulfilment, etc. The certification copy to be submitted."**	**Clarification:** Tender conditions shall prevail
877.	Section 7.1.6	Backup Solution	235	II	To Add	Backup vendor should be a leader in latest Gartner MQ report. Remarks: Request to include the Gartner quadrant to allow vendors offering enterprise level solution and reliable products.	**Clarification:** Tender conditions shall prevail
878.	Section 7.1.6	Backup Solution	235	II	To Add	Backup vendor should be a leader in latest Gartner MQ report. Remarks: Request to include the Gartner quadrant to allow vendors offering enterprise level solution and reliable products.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
879.	Section 7.1.7	Backup Solution - Point No.7	236	II	Solution should integrate with unified storage which is used for data backup with data deduplication capabilities.	Backup solution should integrate with unified storage and provided along with Disk Backup target device which supports hardware/software data deduplication capabilities. Remarks: Disk based target is required for a full fledged backup solution. Backup software will be integrated with the Unified storage/ HCI to backup the critical and application data. However, it is widely recommended to use the Disk based Backup Target for faster and reliable retreival of the backed-up data. Request to include.	**Clarification:** Tender conditions shall prevail
880.	Section 7.1.6	Backup Solution	236	II	To Add	Solution to include external disk based appliance or Local Compute Disk Storage for backup storage to yield lower cost per TB . Controller Node should have minimum 56 drives, 128GB with dual Intel Skylake 12 core processors. Node should be provided with minimum 2*10Gbps Network port. Remarks: It is recommended to use the Disk based Backup Target for faster and reliable retreival of the backed-up data. Request to clarify since the RFP does not states for any Backup Target where the Backup of the data needs to be commenced. Request to include.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
881.	Section 7.1.7	Backup Solution - Point No.7	236	II	Solution should integrate with unified storage which is used for data backup with data deduplication capabilities.	Backup solution should integrate with unified storage and provided along with Disk Backup target device which supports hardware/software data deduplication capabilities. Remarks: Disk based target is required for a full fledged backup solution. Backup software will be integrated with the Unified storage/ HCI to backup the critical and application data. However, it is widely recommended to use the Disk based Backup Target for faster and reliable retreival of the backed-up data. Request to include.	**Clarification:** Tender conditions shall prevail
882.	Section 7.1.6	Backup Solution	236	II	To Add	Solution to include external disk based appliance or Local Compute Disk Storage for backup storage to yield lower cost per TB . Controller Node should have minimum 56 drives, 128GB with dual Intel Skylake 12 core processors. Node should be provided with minimum 2*10Gbps Network port. Remarks: It is recommended to use the Disk based Backup Target for faster and reliable retreival of the backed-up data. Request to clarify since the RFP does not states for any Backup Target where the Backup of the data needs to be commenced. Request to include.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
883.	Section 7.1.6	Backup Solution - Point No. 13	236	II	The Proposed Backup Software must allow to configure the maximum acceptable I/O Latency level for production data stores to ensure backup and replication activities donot impact storage availability to production workload.	configuring I/O Letency for any volume is beyond the scope of any backup software. Hence this point should be removed. Justification: Request you to please remove this point from backup solution specs.	**Clause Amended as:** Please refer to the Corrigendum
884.	Section 7.1.6	Backup Solution - Point No. 15	236	II	License supplied should have support for Backup, Replication to DR site and backup to minimum five MIETY approved cloud service provider platform	Kindly provide the clarity about the connectivity & type of backup with total datasize and list MIETY approved providers.	**Clause Amended as:** Please refer to the Corrigendum
885.	Section 7.1.6	Backup Solution - Point No. 13	236	II	The Proposed Backup Software must allow to configure the maximum acceptable I/O Latency level for production data stores to ensure backup and replication activities donot impact storage availability to production workload.	configuring I/O Letency for any volume is beyond the scope of any backup software. Hence this point should be removed. Justification: Request you to please remove this point from backup solution specs.	**Clause Amended as:** Please refer to the Corrigendum
886.	Section 7.1.6	Backup Solution - Point No. 15	236	II	License supplied should have support for Backup, Replication to DR site and backup to minimum five MIETY approved cloud service provider platform	Kindly provide the clarity about the connectivity & type of backup with total datasize and list MIETY approved providers.	**Clause Amended as:** Please refer to the Corrigendum
887.	Section 7.2	Antivirus - Point No. 13	237	II	Solution's on-premise sandbx must offer malware detection by static analysis. Dynamic emulation,dynamic sandboxing using full (Complte OS) virtual machine and through online retational techniques.	Asked specification is of an Anti-APT solution but falls in wronf category please remove from here and put it in Anti-APT specification.	**Clause Amended as:** Please refer to the Corrigendum
888.	Section 7.2	Antivirus - Point No. 9	237	II	Solution should use a stateful attack analysis to detect the entire infectione lifecycle. It should trace the stage by stage analysis of an advanced attack from system exploitation to outbond malware communication protocol, leading to data exfiltration	Asked specification is of an Anti-APT solution but falls in wronf category please remove from here and put it in Anti-APT specification.	**Clause Amended as:** Please refer to the Corrigendum
889.	Section 7.2	Antivirus - Point No. 10	237	II	The solution should utilize multiple detection approach by commbining virtualaization and emulation to capture more malicious behaviour across a wider range of customer environmennts	Asked specification is of an Anti-APT solution but falls in wronf category please remove from here and put it in Anti-APT specification.	**Clause Amended as:** Please refer to the Corrigendum
890.	Section 7.2	Antivirus - Point No. 13	237	II	The Proposed solution should support hybrid sandboxing (VM-Based and Emulated)	Asked specification is of an Anti-APT solution but falls in wronf category please remove from here and put it in Anti-APT specification.	**Clause Amended as:** Please refer to the Corrigendum
891.	Section 7.2	Antivirus - Point No. 8	237	II	Solution's on-premise sandbx must offer malware detection by static analysis. Dynamic emulation,dynamic sandboxing using full (Complte OS) virtual machine and through online retational techniques.	Asked specification is of an Anti-APT solution but falls in wronf category please remove from here and put it in Anti-APT specification.	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
892.	Section 7.2	Antivirus - Point No. 9	237	II	Solution should use a stateful attack analysis to detect the entire infectione lifecycle. It should trace the stage by stage analysis of an advanced attack from system exploitation to outbond malware communication protocol, leading to data exfiltration	Asked specification is of an Anti-APT solution but falls in wronf category please remove from here and put it in Anti-APT specification.	**Clause Amended as:** Please refer to the Corrigendum
893.	Section 7.2	Antivirus - Point No. 10	237	II	The solution should utilize multiple detection approach by commbining virtualaization and emulation to capture more malicious behaviour across a wider range of customer environmennts	Asked specification is of an Anti-APT solution but falls in wronf category please remove from here and put it in Anti-APT specification.	**Clause Amended as:** Please refer to the Corrigendum
894.	Section 7.2	Antivirus - Point No. 13	237	II	The Proposed solution should support hybrid sandboxing (VM-Based and Emulated)	Asked specification is of an Anti-APT solution but falls in wronf category please remove from here and put it in Anti-APT specification.	**Clause Amended as:** Please refer to the Corrigendum
895.	Section 7.3.2	Compute Virtualization and Management Solution (Compute)	238	II	Computer Virtualization	It is observed that virtualization software section specifications/ technical requirements are specific to one proprietary OEM solution , thus causing other solutions out of consideration as part of the technology selection criteria. Request you to please normalize these virtualization software requirements so bidder shall select the best possible solution as per the RFP requirement All the specification points are proprietary to one OEM, thus we request GSCL to enhance this tender with normalized specification and alllow the bidder to propose an appropriate solution. Kindly confirm that the Virtualization specs are indicative only and not meant to be restrictive/vendor specific. Kindly confirm to allow the bidder to propose other industry leading virtualization solutions.	**Clause Amended as:** Please refer to the Corrigendum
896.	Section 7.3.2	Compute Virtualization and Management Solution (Compute)	238	II	Computer Virtualization	It is observed that virtualization software section specifications/ technical requirements are specific to one proprietary OEM solution , thus causing other solutions out of consideration as part of the technology selection criteria. Request you to please normalize these virtualization software requirements so bidder shall select the best possible solution as per the RFP requirement All the specification points are proprietary to one OEM, thus we request GSCL to enhance this tender with normalized specification and alllow the bidder to propose an appropriate solution. Kindly confirm that the Virtualization specs are indicative only and not meant to be restrictive/vendor	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
						specific. Kindly confirm to allow the bidder to propose other industry leading virtualization solutions.	
897.	Section 7.3.2	Compute Virtualization and Management Solution (Compute) - Point No. 11	239	II	· Span across a virtual datacentre and multiple hosts should be able to connect to it. This shall simplify and enhance virtual-machine networking in virtualized environments and enables those environments to use third-party distributed virtual switches. · In-built enhanced host-level packet capture tool which shall provide functionalities like SPAN, RSPAN, and ERSPAN and shall capture traffic at uplink, virtual switch port and virtual NIC level. It should also be able to capture dropped packets and trace the path of a packet with time stamp details	To be deleted Remarks: This is vendor specific for wider participation, request you to delete this clause. Fabric management tool is already asked in the RFP request you to delete vendor propriatary clauses	**Clause Amended as:** Please refer to the Corrigendum
898.	Section 7.3.2	Compute Virtualization and Management Solution (Compute) - Point No. 11	239	II	· Span across a virtual datacentre and multiple hosts should be able to connect to it. This shall simplify and enhance virtual-machine networking in virtualized environments and enables those environments to use third-party distributed virtual switches. · In-built enhanced host-level packet capture tool which shall provide functionalities like SPAN, RSPAN, and ERSPAN and shall capture traffic at uplink, virtual switch port and virtual NIC level. It should also be able to capture dropped packets and trace the path of a packet with time stamp details	To be deleted Remarks: This is vendor specific for wider participation, request you to delete this clause. Fabric management tool is already asked in the RFP request you to delete vendor propriatary clauses	**Clause Amended as:** Please refer to the Corrigendum
899.	Section 7.3.2	Compute Virtualization and Management Solution (Compute) - Point No. 13	240	II	Solution should provide DR automation solution delivered from virtualization manager console for automated failover, failback and recovery of application VMs in proper sequence to other data centre with single click Solution should provide solution to perform nondisruptive DR drill/testing of recovery plan for full and selected applications every six months without impacting production applications running in primary environment.	To be deleted Remarks: This is vendor specific for wider participation, request you to delete this clause. DR automation tool is already asked in the RFP request you to delete vendor propriatary clauses	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
900.	Section 7.3.2	Compute Virtualization and Management Solution (Compute) - Point No. 15	240	II	It should include proactive smart alerts with self-learning performance analytics Capabilities with Prebuilt and configurable operations dashboards to provide real-time insight into infrastructure behaviour, upcoming problems, and opportunities for efficiency improvements. · Capacity analytics which can identify over-provisioned resources so that they can be right-sized and "What If" scenarios to eliminate the need for spreadsheets, scripts and rules of thumb, as well as Real-time, integrated dashboards of performance and capacity to enable a proactive management approach and help ensure SLAs are met · Automated workflow triggers which would let admins associate workflows created in Orchestrator layer with Operations alerts. For example, these workflows can automatically delete old VM snapshots when available capacity falls below a critical threshold or add resources when workload demands are rising above normal	To be deleted Remarks: This is vendor specific for wider participation, request you to delete this clause	**Clause Amended as:** Please refer to the Corrigendum
901.	Section 7.3.3	Network and Security Virtualization - Point No. 1	240	II	To be deleted	To be deleted Remarks: There is already fabric management specs in the RFP, these are redundanct components, request you to delete the specification as these are vendor specific	**Clause Amended as:** Please refer to the Corrigendum
902.	Section 7.3.3	Network and Security Virtualization	240	II	Add point	The Network and security virtualization solution should be quoted for 100 servers scalable to 1000 servers without any license cost Remarks: The solution quoted should be scalable, there should not be any dependency on licensing for quoted solutiosn	**Clarification:** Tender conditions shall prevail
903.	Section 7.3.2	Compute Virtualization and Management Solution (Compute) - Point No. 13	240	II	Solution should provide DR automation solution delivered from virtualization manager console for automated failover, failback and recovery of application VMs in proper sequence to other data centre with single click · Solution should provide solution to perform nondisruptive DR drill/testing of recovery plan for full and selected applications every	To be deleted Remarks: This is vendor specific for wider participation, request you to delete this clause. DR automation tool is already asked in the RFP request you to delete vendor propriatary clauses	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					six months without impacting production applications running in primary environment.		
904.	Section 7.3.2	Compute Virtualization and Management Solution (Compute) - Point No. 15	240	II	It should include proactive smart alerts with self-learning performance analytics Capabilities with Prebuilt and configurable operations dashboards to provide real-time insight into infrastructure behaviour, upcoming problems, and opportunities for efficiency improvements. · Capacity analytics which can identify over-provisioned resources so that they can be right-sized and "What If" scenarios to eliminate the need for spreadsheets, scripts and rules of thumb, as well as Real-time, integrated dashboards of performance and capacity to enable a proactive management approach and help ensure SLAs are met · Automated workflow triggers which would let admins associate workflows created in Orchestrator layer with Operations alerts. For example, these workflows can automatically delete old VM snapshots when available capacity falls below a critical threshold or add resources when workload demands are rising above normal	To be deleted Remarks: This is vendor specific for wider participation, request you to delete this clause	**Clause Amended as:** Please refer to the Corrigendum
905.	Section 7.3.3	Network and Security Virtualization - Point No. 1	240	II	To be deleted	To be deleted Remarks: There is already fabric management specs in the RFP, these are redundanct components, request you to delete the specification as these are vendor specific	**Clause Amended as:** Please refer to the Corrigendum
906.	Section 7.3.3	Network and Security Virtualization	240	II	Add point	The Network and security virtualization solution should be quoted for 100 servers scalable to 1000 servers without any license cost Remarks: The solution quoted should be scalable, there should not be any dependency on licensing for quoted solutiosn	**Clarification:** Tender conditions shall prevail
907.	Section 7.5.4	ANPR Server Software - Point No. 8	257	II	The centralized Video Management Module should be part of same ANPR software framework. No 3rd party VMS is allowed to be offered, howsoever integrated it may be	Both softwares are seprate softwares made by different OEMs. Integrated solutions from differnt OEMs are already working in other ITMS/Smartcity projects. Hence requesting you to please amend the clause as "The centralized Video Management Module and ANPR software should be integrable with each other."	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
908.	Section 10	Appendix VII: Water Quality Analyzer Locations	291	II	Water Quality Analyzer Locations	NA	**Clause Amended as:** Please refer to the Corrigendum
909.	Section 11	Appendix VIII- Indicative Use Cases - Point No. 12, 13 & 17	293	II	Wrong Direction Traffic Flow Parking Violation Detection Red Light Violation Detection	Quantities are not mentioned in Bill of Meterial. Please include it into BOQ and provide number of lanes for the same.	**Clarification:** Tender conditions shall prevail
910.	Section 11	Section 11 - Annexure VIII - Point No.19	294	II	Making way to Emergency vehicles/Ambulances Availability of Ambulance, Location of Ambulance, Location of hospitals on GIS Map, Operator aware of type of mishap to dispatch to relevant hospital or as per patient attendant request, Police personals deployed at each location in the city and their contact information, communication channel, Command control traffic controller	We understand that GIS data with respect to location of hospital, building ,landmarks and city infrastrtcure etc. would be provided by authority to map on GIS system.	**Clarification:** GIS data with respect to location of hospital, building ,landmarks and city infrastrtcure etc. would be provided by authority to map on GIS system.
911.	Section 11	Appendix VIII - Indicative Use Cases, Point No. 19	294	II	Additional Clause:	Request you to add the following clause: MSI shall upgrade the existing controllers by adding an Outstation Transmission Unit (OTU) on top of all the existing controllers to implement vehicle priority (emergency and bus). The OTU shall be able to communicate with control room using UG405 protocol. This OTU shall also enable the easy upgradation to ATCS by adding detectors. Justification: To get emergency vehicles priority on traffic signal we need to have additional hardware on the existing junctions which will go on top of existing controllers, which shall be able to identify the presence of emergency vehicle, either locally or from the control centre.	**Clarification:** Tender conditions shall prevail
912.	Section 11	Indicative Use cases - Point No, 19	294	II	Additional Clause:	Request you to add the following clause: MSI shall upgrade the existing controllers by adding an Outstation Transmission Unit (OTU) on top of all the existing controllers to implement vehicle priority (emergency and bus). The OTU shall be able to communicate with control room using UG405 protocol. This OTU shall also enable the easy upgradation to ATCS by adding detectors.	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					Justification: To get emergency vehicles priority on traffic signal we need to have additional hardware on the existing junctions which will go on top of existing controllers, which shall be able to identify the presence of emergency vehicle, either locally or from the control centre.		
913.	Section 11	Appendic III - Indicative Use Cases - Point No. 19	294	II	Making way to Emergency vehicles/Ambulances Availability of Ambulance, Location of Ambulance, Location of hospitals on GIS Map, Operator aware of type of mishap to dispatch to relevant hospital or as per patient attendant request, Police personals deployed at each location in the city and their contact information, communication channel, Command control traffic controller	We understand that GIS data with respect to location of hospital, building ,landmarks and city infrastrtcure etc. would be provided by authority to map on GIS system.	**Clarification:** GIS data with respect to location of hospital, building ,landmarks and city infrastrtcure etc. would be provided by authority to map on GIS system.
914.	Section 11	Vol 2 | Page no. 300 | 11 Appendix VIII: Indicative Use Cases	300	II	The system should be able to do - No helmet detection for 2-wheelers	This requirement of " No Helmet detcteion for 2-wheelers" is asked in "11 Appendix VIII: Indicative Use Cases" only. We request you to kindly add this clause in 7.5.4 ANPR Server Software specifications in Vol 2, Page no. 254.	**Clause Amended as:** Please refer to the Corrigendum
915.	Section 11	Appendix VIII- Indicative Use Cases - Point No. 22	300	II	Over Speed Detection Module: a. The system should be able to detect vehicles moving up to speeds of 200 km/hr. and read their number plates with good accuracy. Vendor should provide manufacturer certificate/test report in support of their claim b. The certification for the accuracy of speed measurement should be from the approved Govt. body from the country of origin. Certifications shall be provided for the complete system and not individual components. The system should be calibrated for accuracy prior to handing over and the successful bidder should ensure annual calibration of the system	This requirement "Over speed Detection" is asked in "11 Appendix VIII: Indicative Use Cases" only. We request you to kindly add this clause in 7.5.4 ANPR Server Software specifications in Vol 2, Page no. 254. Since this Over Speed Detection module is used for the purpose of challaning, hence kindly amend the clause as - "Over Speed Detection Module: a. The system should be able to detect vehicles moving up to speeds of 200 km/hr. and read their number plates with good accuracy. **Vendor should provide certificate for their Speed detection accuracy of the speed detection system should certified from a govt. approved third party test lab as mentioned in Central Motor Vehicle act rule no. 126 in support of their claim.** b. **The certification for the accuracy of speed measurement should be from the approved Govt. body from the country of origin as mentioned in Central Motor Vehicle act rule no. 126. Certifications** shall be provided for the complete system and not individual components. The system should be calibrated for accuracy prior to handing over."	**Clause Amended as:** Please refer to the Corrigendum

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
916.	NA	Scope of work ,Edge Level Switch (at Traffic Junctions)	310	II	Layer 2 Features: The switch should support backup storage drives, which will store the last known configuration of the switch, in the case of hardware failure and replacement. Reinserting the storage drive should restore the switch to original working condition without any manual intervention.	Layer 2 Features: The switch should support Config backup which will store the configuration of the switch, in the case of hardware failure and replacement. Reinserting the Backup should restore the switch to original working condition. Remarks: Maintaining Configurations Backups on backup storage drives like SD Cards etc. would be difficult when no. of switches would be increased. In case of manual error it could result in IP Conflicts etc. which would result in network errors. Backed up config. Files can be uploaded via NMS.	RFP reference could not be established
917.	NA	Scope of work	311	II	Layer 3 Features: The switch should support Dynamic Routing.	Kindly remove this Clause Remarks: Layer 3 Features: The switch should support Dynamic Routing is not relevant to Field Switch. So kindly remove this clause.	RFP reference could not be established
918.	NA	NA	NA	II	User Count	Request you to please provide the clarity about the no of concurrent internal users who will be using Document Management System & BPM/Workflow Management system. Also please confirm if any external users will use the system. If yes then, please provide the number of external users. This is required to size the hardware and infrastructure	**Query not clear**
919.	NA	NA	NA	II	To Include - Automatic Contionous colour and brightness management mechanism to be provided. Request to include Automatic Contionous colour and brightness management mechanism to be provided so that same level of colors , contrast & brightness is maintained througout the life period of equipment	This will ensure more accurate cube to cube uniformity, over the complete runtime & uninterrupted operation and control of video wall	**Clarification:** Tender conditions shall prevail
920.	NA	NA	NA	II	To Include - Video wall solution should be from single OEM The display solution as well as the complete control ware including Display Controller, Central management SW & Web-streaming hardware as well as software should be of same Make/OEM	This will ensure accountability of end to end video wall solution with single OEM	**Clarification:** Tender conditions shall prevail
921.	NA	NA	NA	II	To Include - Remote Viewing The video wall content will be able to show live on any remote display .Mobile with IE (no apps) as this is very important feature for 24x7 Operations as well as for crisis management and for flexibility to see content as an when required	This feature will enable Top officials from of smart city administration to view the video wall content from a remote location to help in quick and effective decision making in case of emergecies.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
922.	NA	NA	NA	II	NA	Considering datacenter best practise a dedicated server security solution is missing as per curent security architecture. Hence Considering current security landscape it's a humble suggestion to incorporate dedicated HIPS solution having Anti malware, Integrity monitoring, Application Control,Vulnerability protection and log inspection capability to adhere desired SLA	**Clarification:** Tender conditions shall prevail
923.	NA	NA	NA	II	NA	Request the authorities to allow for Data Centre on Cloud as it has low maintenance cost and can be scaled up as per requirement with no additional hardware deployment	**Clarification:** Tender conditions shall prevail
924.	Section 6.7.13	Internet Firewall	NA	II	New Clause	Since most of the web traffic will be on encrypted (SSL) It is suggested that the **"The Firewall solution should support at least 15 Gbps of IPS SSL Inspection Throughput"**	**Clarification:** Tender conditions shall prevail
925.	Section 6.7.13	Internet Firewall	NA	II	New Clause	Since 8x1/10G ports asked in rfp , the solution should be capable of processing the traffic while all interfaces are connectd hence it is suggested that **"The solution should be able to deliver at least 75 Mpps (Packet per Second)"**	**Clarification:** Tender conditions shall prevail
926.	Section 6.7.13	Internet Firewall	NA	II	New Clause	Since most of the web traffic will be on encrypted (SSL) It is suggested that the **"The Firewall solution should support at least 15 Gbps of IPS SSL Inspection Throughput"**	**Clarification:** Tender conditions shall prevail
927.	Section 6.7.13	Internet Firewall	NA	II	New Clause	Since 4x1G Ethernet Ports & 4 X 10G ports asked in rfp , the solution should be capable of processing the traffic while all interfaces are connectd hence it is suggested that **"The solution should be able to deliver at least 75 Mpps (Packet per Second)"**	**Clarification:** Tender conditions shall prevail
928.	Section 6.7.13	Internet Firewall	NA	II	New Clause	Since most of the web traffic will be on encrypted (SSL) It is suggested that the **"The Firewall solution should support at least 15 Gbps of IPS SSL Inspection Throughput"**	**Clarification:** Tender conditions shall prevail
929.	Section 6.7.13	Internet Firewall	NA	II	New Clause	Since 8x1/10G ports asked in rfp , the solution should be capable of processing the traffic while all interfaces are connectd hence it is suggested that **"The solution should be able to deliver at least 75 Mpps (Packet per Second)"**	**Clarification:** Tender conditions shall prevail
930.	Section 6.7.13	Internet Firewall	NA	II	New Clause	Since most of the web traffic will be on encrypted (SSL) It is suggested that the **"The Firewall solution should support at least 15 Gbps of IPS SSL Inspection Throughput"**	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
931.	Section 6.7.13	Internet Firewall	NA	II	New Clause	Since 4x1G Ethernet Ports & 4 X 10G ports asked in rfp , the solution should be capable of processing the traffic while all interfaces are connectd hence it is suggested that **"The solution should be able to deliver at least 75 Mpps (Packet per Second)"**	**Clarification:** Tender conditions shall prevail
932.	NA	NA	NA	II	New Clause	Data backup is one of the important piece of Law enforcement and we a noticed the for backup appliances specs are missing totally, attaching it for your reference to be included in the RFP for policies.	**Clarification:** Tender conditions shall prevail
933.	NA	NA	NA	II	New Clause	also there are no specs defined for the PA systems, Suggested specs are also enclosed	Query not clear
934.	NA	NA	NA	II	New Clause	Specifications for PA system.	Query not clear
935.	Section 6.7.13	Internet Firewall	NA	II	New Point	Please ask **"The Proposed solution must have minimum 1000 GB HDD for log storage in Raid 1 option."** Asking this storage on firewall device will help smart city to store logs on the device it self during when management device is not accessible due to any reasong like connectivity problem or power surge on the management device. asking storage will give redundancy for log storing in this project because smart city project is looking for redundancy option in power supply and in FAN than why not to have storage also redundant.	**Clarification:** Tender conditions shall prevail
936.	Section 6.7.13	Internet Firewall	NA	II	New Point	Please ask **"The Proposed NGFW device must support virtual context from day one."** Having virtual firewall will help smart city project to use same firewall hardware device to run multiple instance as in when required in future and will be managed by same management which is going to manage NGFW device.	**Clarification:** Tender conditions shall prevail
937.	Section 6.7.14	Internal Firewall /Hardware Architecture	NA	II	New Point	Please ask **"The Proposed NGFW device must support virtual context from day one."** Having virtual firewall will help smart city project to use same firewall hardware device to run multiple instance as in when required in future and will be managed by same management which is going to manage NGFW device.	**Clarification:** Tender conditions shall prevail
938.	NA	NA	NA	II	Does Existing architechture require DC-DR Active-Active Data replication, data security, High Avilibility, Load balancing. Further the capability to administer database / database clusters, Monitor performance, Maintain database, Backup and recovery, Disaster recovery management, diagnosis, performance tuning with the SQL analysis, finding the events, advisory based tuning mechanisms with the history from a single interface.	The Disaster management tool should provides the load management,High availility,data security, monitoring, and automation software to create and maintain one or more synchronized copies of a production database to protect data from failures, disasters, human error, and data corruptions while providing high availability for mission critical applications.	RFP reference could not be established

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
939.	NA	NA	NA	II	Database/RDBMS is the most essential part of any solution architechture. Are you considering following important aspect of database- Availibility,Reliability,Scalibility,Security.	Reqesting inclusion of the detailed suggested feature is described in *DATABAE-RDBMS tab and DatabaseServer Tab.	RFP reference could not be established
940.	NA	NA	NA	II	As per RFP document there is an Vital need to have a intergartion tool with capability to inegrate with several other systems. It is advisable to have an intergration tool that is able to Govern,Enforce,secure&Manage the various exposed webservices across applications.	Reqesting inclusion of the detailed suggested feature is described in *Integration-ESB tab.	Query not clear
941.	NA	NA	NA	II	As per RFP document there is an Vital need to have a Mobile interface tool with capability to provide citizen centric mobile platform. It is advisable to have an mobile enterprise application platform to Govern,Enforce,secure&Manage the various mobile applications applications.	Reqesting inclusion of the detailed suggested feature is described in *Mobility tab.	Query not clear
942.	NA	NA	NA	II	As per RFP document there is an Vital need to have a intergartion tool with capability to inegrate with several other systems. It is advisable to have an intergration tool that is able to Govern,Enforce,secure&Manage the various exposed webservices across applications.	Reqesting inclusion of the detailed suggested feature is described in *Integration-ESB tab.	Query not clear
943.	NA	NA	NA	II	To Include - Automatic Contionous colour and brightness management mechanism to be provided.	Request to include Automatic Contionous colour and brightness management mechanism to be provided so that same level of colors , contrast & brightness is maintained througout the life period of equipment Justification: This will ensure more accurate cube to cube uniformity, over the complete runtime & uninterrupted operation and control of video wall	Clarification: Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
944.	NA	NA	NA	II	To Include - Video wall solution should be from single OEM	The display solution as well as the complete control ware including Display Controller, Central management SW & Web-streaming hardware as well as software should be of same Make/OEM Justification: This will ensure accountability of end to end video wall solution with single OEM	Clarification: Tender conditions shall prevail
945.	NA	NA	NA	II		Request smart city team to add below point to ensure Quality of CCTV Products. The country of origin and country of manufacturing have to be same for all cameras. OEM needs to ensure that no white labeled cameras are supplied.	Clarification: Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
946.	NA	NA	NA	II		Request smart city team to add below point to ensure Stable OEM of CCTV Products. Camera OEM to be present in india along with service center from last 10 years not through joint venture or distributor of OEM	**Clarification:** Tender conditions shall prevail
947.	Additional Recommendation	NA	NA	II	Tender should have a clause saying that GOI Preferential Market Access Policy to promote domestic manufacturing under Make in India is applicable in this project- as per the following notifications a. Notification No.8(78)/2010-IPHW dated 10 Feb 2012 b. DoT notification No.18-07/2010-IPdated 05 Oct 2012 c. Guidelines issued by DeitY vide No.8(78)/2010-IPHW dated 12Jun 2013. d. Notification issued by DeitY vide No.33(3)/2013-IPHW dated 23Dec 2013. e. Guidelines issued by DeitY vide No.33(7)/2015-IPHW dated 16th November,2015. **This PMA policy is made mandate by MoUD via notification D.O. No. K-14012/101(17)/2017-SC-III-A dated 27th April 2017. Please do confirm the implemetation of the policy.**	We would like to bring to your notice that Government of India has come up with a Preferntial Market Access Policy giving preference to domestic manufacturers in all government funded projects. In addition, the policy dated 23rd December,2013 vide clause 4.3.4 states that the tender conditions would ensure that domestically manufactured electronic products are encouraged and are not subjected to restrictive product specifications or mandatory requirement of prior experience.In view of the same,we request you to include the implementation of PMA policy on this tender and help in creating a stronger domestic industry. Many of the government projects are already covered under the Policy.Enclosed are various copies of tenders where PMA policy is already appearing in the tender.Inview of this,we request you for Implementation GOI Preferential Market Access Policy to promote domestic manufacturing under Make in India- as per the following notifications a. DIPP Notification dated 15th June 2017 b. DoT Notification dated 28th August 2018 c. Notification No.8(78)/2010-IPHW dated 10 Feb 2012 d. DoT notification No.18-07/2010-IPdated 05 Oct 2012 e. Guidelines issued by DeitY vide No.8(78)/2010-IPHW dated 12Jun 2013. f. Notification issued by DeitY vide No.33(3)/2013-IPHW dated 23Dec 2013. g. Guidelines issued by DeitY vide No.33(7)/2015-IPHW dated 16th November,2015. Below Tender Documents/clarifications reference mentions PMA policy:- 1. RailTel Corporation of India Limited - Tender No. RailTel/Tender/OT/CO/Project/2012-13/211 - Clause 23 (Page-50) 2. BSNL Indian Navy Tender - CA/CNP/NCN-EQPT/T-464/2014 DATED 31 JAN 2014 - Clause 4.1.6 (Page-6) 3. Raipur Smart City - 108/RSCL/ITMS-ICCC/2017-18, dated 21/04/2017 4. BSNL Indian Navy Tender - CA/CNP/NCN-EQPT/T-464/2014 DATED 31 JAN 2014 - Clause 4.1.6 (Page-6) 5. Bhubneshwar Smart City - BSCL/243/16/620, dated 4th March 2017	**Pending**

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
948.	NA	NA	NA	II	Add Data leakage prevention	DLP should cover data in rest , data in motion, data in use , optical character recognition from image files and should provide centralize management, reporting & workflow. Smart City will be havin government confidential data which needs to be protected for all the channels including endpoint and network	**Clarification:** Tender conditions shall prevail
949.	NA	NA	NA	II	Add Data leakage prevention	Automated Response & Incident Management. Smart city being critical infra with confidential data , Automated reponse in terms of blocking the data leakage and informing the manager to view the voilation is required to proactively prevent the Data leakage	**Clarification:** Tender conditions shall prevail
950.	NA	NA	NA	II	Add Data leakage prevention	DLP should provide Incident Workflow capabilities where user/Business Manager can remediate the DLP policy violations actions from handsets/emails without logging into the Management Console. Data owner should have the right to release the data to the outsider by reviewing the same when it is sent from their reportee to keep the process of datasharing easy with audit when business has the requirement	**Clarification:** Tender conditions shall prevail
951.	NA	NA	NA	II	Add Data leakage prevention	The DLP Solution must provide visibility into Broken Business process. For ex:-if unsecured sensitive content is sent daily from several users to a business partner, the users are probably not aware that they are doing something wrong. Mostly data leakage happens when internal employee seek the easiest way to do their job and they are not aware about accidental data leakage due to not knowing the processes , DLP can give that visibility and control.	**Clarification:** Tender conditions shall prevail
952.	NA	NA	NA	II	Add Data leakage prevention	The Proposed DLP engine must performs a post-processing incident grouping step to avoid displaying related incidents in different cases. All incidents from the sameuser that have the same classification are combined into a group and DLP case card. Smart city being multiuser environment handling multiple incident could lead to the negligence of critical incident , Single user incident which is related to each other could be multiple , DLP should have that intelligence to correlate those incident and should provide prioritization on which the admin needs to look first on risk basis.	**Clarification:** Tender conditions shall prevail
953.	NA	Scope of work: Cabling Components OFC& UTP	NA	II	No Specs Mentioned	OM4 Cable and Components for Data Center Solution	**Clarification:** Tender conditions shall prevail

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
954.	NA	Scope of work: Cabling Components OFC& UTP	NA	II	No Specs Mentioned	OS2 Cable and Components for Outdoor OFC Solution	**Clarification:** Tender conditions shall prevail
955.	NA	Scope of work: Cabling Components OFC& UTP	NA	II	No Specs Mentioned	Outdoor/ Armoured Cat6 Cable for last mile outdoor installations	**Clarification:** Tender conditions shall prevail
956.	NA	Scope of work: Cabling Components OFC& UTP	NA	II	No Specs Mentioned	IP 20 connector for cable terminations at outdoor installations.	**Clarification:** Tender conditions shall prevail
957.	NA	**DataCenter Layer**		II	Does Existing architechture require DC-DR Active-Active Data replication, data security, High Avilibility, Load balancing. Further the capability to administer database / database clusters, Monitor performance, Maintain database, Backup and recovery, Disaster recovery management, diagnosis, performance tuning with the SQL analysis, finding the events, advisory based tuning mechanisms with the history from a single interface.	The Disaster management tool should provides the load management, High availibility,data security, monitoring, and automation software to create and maintain one or more synchronized copies of a production database to protect data from failures, disasters, human error, and data corruptions while providing high availability for mission critical applications.	RFP reference could not be established
958.	NA	**DW/Database/R DBMS/Applicati on layer**		II	Database/RDBMS is the most essential part of any solution architecture. Are you considering following important aspect of database- Availibility,Reliability,Scalibility,Security.	Requesting inclusion of the detailed suggested feature is described in ***DATABAE-RDBMS** tab and **DatabaseServer** Tab.	RFP reference could not be established
959.	NA	**Integration**		II	As per RFP document there is an Vital need to have a integration tool with capability to integrate with several other systems. It is advisable to have an integration tool that is able to Govern,Enforce,secure&Manage the various exposed webservices across applications.	Requesting inclusion of the detailed suggested feature is described in ***Integration-ESB** tab.	RFP reference could not be established
960.	NA	**Mobile Application/Mob ility Platform**		II	As per RFP document there is an Vital need to have a Mobile interface tool with capability to provide citizen centric mobile platform. It is advisable to have an mobile enterprise application platform to Govern,Enforce,secure&Manage the various mobile applications applications.	Requesting inclusion of the detailed suggested feature is described in ***Mobility** tab.	RFP reference could not be established
961.	NA	**API Management**		II	As per RFP document there is an Vital need to have a integration tool with capability to integrate with several other systems. It is advisable to have an integration tool that is able to Govern,Enforce,secure&Manage the	Requesting inclusion of the detailed suggested feature is described in ***Integration-ESB** tab.	RFP reference could not be established

S. No.	Section No.	Clause No.	Page No.	RFP Vol.	RFP Clauses	Queries received from Bidders	Corrigendum / Clarification
					various exposed webservices across applications.		
962.	Jalandhar_RFP_Volume2_ScopeofWork. Section 4.1, Disaster Recovery Page 208. Point g viii			II	DR should have 50% computing power for the mentioned smart city applications in RFP and 2% of video feeds for 10 years should be available in DR	1. Does this means that DR should have 50% computing power of that of DC? However, in page 207, its mentioned that DR should be of same capacity as that of DC and also it sould cater to 100% of the load. Please clarify. 2. Regarding the video feed, does DR mode require the videos to be in lesser bitrate/lower quality formats?	RFP reference could not be established
963.	Jalandhar_RFP_Volume2_ScopeofWork. Section 4.1, Disaster Recovery Page 82 City Operations Platform, table point 1			II	The system shall allow seamless integration with all of the department's existing and future initiatives (e.g. open source intelligence, situation management war room, etc.)	Can we assume that all existing and future systems and initiatives will support standard and open API's for integrations with the platform.	RFP reference could not be established
964.	Section: 2.8 Change Control	2.8.1 Change Control Procedure, Point No. II		III	ii. The Bidder and ASCL, while preparing the CNS, shall consider the change only when such change is beyond the Scope of Work including ancillary and concomitant services required as detailed in RFP. The value of each CNS request should not be exceeding 5% of the Contract value in any case and overall cost of CNSs, during the term of Project, shall not exceed 15% of the Contract Value.	NA	**Clause Amended as:** Please refer to the Corrigendum
965.	NA	NA	NA	NA	Generic Remark	Also document published is non editable version, request you to pls help with editable version of RFP.	**Clarification:** Tender conditions shall prevail
966.	Section 7.7.2	NA	NA	NA	To Include - Remote Viewing	The video wall content will be able to show live on any remote display .Mobile with IE (no apps) as this is very important feature for 24x7 Operations as well as for crisis management and for flexibility to see content as an when required Justification: This feature will enable Top officials from of smart city administration to view the video wall content from a remote location to help in quick and effective decision making in case of emergecies.	**Clarification:** Additional feature – "Tender condition shall prevail" - The Bidder may provide additional feature as per the solution requirement.
967.	NA	NA	NA	NA	Amritsar Smart City intends to establish a Data Centre (DC) in the premises of the JICCC	Utilization of smart city services may not be 100% in initial days of the project. Provisioning for dedictaed infrastructure in a dedicated data center will incur CAPEX cost and inflate project cost and may also lead to unutilized infrastructure. It could also happen that the	RFP reference could not be established

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						infrastructure become technicaly obsolete by the time project reaches its full potential and 100% infrastructure utilization. IT is suggested to adopt a model of Pay-as-you-use option with any cloud data center of good repute for addressing IT infrastructure requirements where provisioning/de-provisioning IT capacity is possible on-the-fly and data does not leave India boundaries.It will enable ASCL to prevent unncessary CAPEX inverstment and manage project cost.

Is ASCL open to allow cloud for ICCC data center(DC) requirements? request you to please confirm. | |
| 968. | NA | NA | NA | NA | NA | The RFP Section 3.1 mentions that use of Commercially off the shelf (COTS) products shall be critical for stable software delivery and long term change management. It is also mentioned that some Bespoke applications are also required to be developed. We would like to bring to your kind notice that it is important to standardize Bespoke applications architecture and technical specifications so that:...We would like to propose a draft specification of Rapid Application Development Platform. It is requested to kindly consider for incorporation of the same in current RFP. | **Clarification:**

Tender conditions shall prevail |
| 969. | NA | NA | NA | NA | General | We request to provide the detailed addess for all locations along with contact details for feasibility | **Clarification:**

Indicative locations of equipment are mentioned in RFP and contact details shall be shared with the successful bidder. |
| 970. | NA | NA | NA | NA | General | We requesr to clarify the handoff interface required | Query not clear |