

Agra Smart City Limited

Response to the pre-bid queries of Request for Proposal (RFP) for Selection of Master System Integrator for Implementation of Intelligent Traffic Management System, Adaptive Traffic Control System, CCTV and Surveillance System, Solid Waste Management and Integrated with Command and Control Centre (ICCC)

RFP No.: RFP No. 02/ASCL/MSI-ICT/2018

Note: The response here under are only for the purpose of clarification to the bidders and do not form part of the RFP. Only Corrigendum shall be referred along with RFP and other corrigendum by the respective bidder for submission of response.

S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
1	1	Volume 1/Pre-Qualification Criteria 4	41	As on the date of the submission of the proposal, The bidder (each of the member of the Consortium in case of consortium) including their parent/ subsidiary/ associate company should not be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) in India	We request the department to amend the clause as "As on the date of the submission of the proposal, The bidder (each of the member of the Consortium in case of consortium) should not be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) in India."	"As on the date of the submission of the proposal, The bidder (each of the member of the Consortium in case of consortium) including their parent/ subsidiary should not be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) in India"
2	1	Volume 2	90	89. Liquidated Damages: deduct from the Contract price, as liquidated damages, a sum equivalent to 1 % per week of entire contract value for a milestone/quarter	deduct from the Contract price, as liquidated damages, a sum equivalent to 1% 0.5% per week of entire contract value undelivered portion for a milestone/quarter	89. Liquidated Damages: deduct from the Contract price, as liquidated damages, a sum equivalent to 1 % per week of undelivered portion for a milestone/quarter
3	1	Volume 1, Section 2.28: Eligible Goods and Services, and OEM Criteria:	34	d. All quoted OEM should have either quality standard certifications like ISO 9001-2008/2015, ISO 14001, ISO 27001, wherever applicable to ensure only quality OEM participation, as on date of RFP release.	Request to include delivery partners of the OEM under this clause and here is the suggestion: "All quoted OEM or their delivery partners should have either quality standard certifications like ISO 9001-2008/2015, ISO 14001, ISO 27001 wherever applicable to ensure only quality OEM participation, as on date of RFP release"	All quoted OEM should have either quality standard certifications like ISO 9001-2008/2015/ISO 14001/ISO 27001, whichever applicable to that particular product of OEM, to ensure only quality OEM participation, as on date of RFP release."

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4	1	Vol-I, Instructions for Online Bid Submission	14	Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and ordinarily it shall be in PDF/xls/rar/jpg/dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip/rar and the same if permitted may be uploaded	Looking to the complexity and mandatory requirement of multiple documents in RFP, number of pages and size will be huge. It will be very difficult to optimize within 2 MB in multiple files. Hence requesting you kindly increase the uploading documents size minimum by 5 MP for smooth functioning of uploading.	Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and ordinarily it shall be in PDF/xls/rar/jpg/dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 5MB, it can be reduced through zip/rar and the same if permitted may be uploaded
5	1	Volume #1/3.5 Pre-Qualification Criteria Point# 6.	42	Copies of Work Order, Work Completion certificate by Client Entity (on Client Entity letterhead) and other relevant documents clearly highlighting the Scope of Work, Bill of Material and Value of Contract.	We can arrange Work Order for all the 4 projects however for one of our projects we would like to get an exception for not submitting WCC. We request the authority for submitting either WO or WCC. Justification: We have deployed all our projects apart from one running projects and after submitting the request of getting WCC for any project it takes around more than a months time. We look forward for your kind exemption from this.	Clause to be read as - It should be Work Order Issued with certificate from Client or Work Completion Certificate for Completed Projects or Go-Live Projects
6	1	Volume 1 Sectio 2.28(b)	34	The Bidder shall quote only one specific make and model from only one specific OEM, for each of the goods. Providing more than one option shall not be allowed.	This clause may please be removed as it restricts bidders to provide the best of product, and limiting the competition	No Change
7	1	Volume 1	41	3.5, Point no 5 : CMMI level 3 or higher	We understand bidder can submit their parent company/subsidiary company CMMI level 3 certificate also. As a proof of document bidder can submit letter from company secretary and audited annual report showing the share pattern.	Accepted. Parent or child certificate can be used but not Associate
8	1	Volume 1 / 1 / 1.2 1.2. Need for Present Assignment & Brief Scope of Work	16	Data Center and Disaster Recovery - MSI shall setup Data Center, Disaster Recovery Center & Data Backup storage facility at the CCC or Service Provider (SP)	Requesting you to provide the location for DC and DR (in different seismic zone).	Primary location for IT infrastructure should be part of ICCC as local IT hub and at existing UP Dial 100 Control Room for Police related data. For DR,

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						MSI shall decide MeITY Empaneled Cloud Service Provider which shall not be compulsory in different seismic zone or 250kms away.
9	1	Volume 1, 3.5. Pre-Qualification Criteria S.No. 6	42	<p>Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years:</p> <p>§ Adaptive Traffic management system</p> <p>§ Intelligent Traffic Management system</p> <p>§ Variable Messaging System/ Public Address System/ Environmental Sensor / Emergency/ Panic Box System</p> <p>§ ICT based Solid Waste Management</p> <p>§ CCTV based Surveillance System</p> <p>§ City Operation Command Centre / Command and Control Centre</p>	<p>Request to amend as</p> <p>Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years:</p> <p>§ Adaptive Traffic management system</p> <p>§ Intelligent Traffic Management system</p> <p>§ Variable Messaging System/ Public Address System/ Environmental Sensor / Emergency/ Panic Box System</p> <p>§ ICT based Solid Waste Management</p> <p>§ CCTV based Surveillance System</p> <p>§ City Operation Command Centre / Command and Control Centre</p> <p>§ emergency response centre</p> <p>§ City wide (NOC/SOC)/ Government Services Contact Center</p> <p>§ Surveillance control room built for Highways, Railway, Airport, Campus</p>	<p>Sole Bidder or consortium should have;</p> <p>A) Completed four (4) projects out of 7 different components given below and</p> <p>B) Should have completed or on-going four(4) projects out of seven 7 different components given below during last 7 years (in different cities)</p> <p>1. Adaptive Traffic management system</p> <p>2. Intelligent Traffic Management system</p> <p>3. Variable Messaging System/Public Address System/Environmental Sensor /Emergency/ Panic Box System</p> <p>4. ICT based Solid Waste Management</p> <p>5. CCTV based Surveillance System</p> <p>6. Operation Command Center/ Command and Control Centre</p> <p>7. GIS System</p>
10	1	Volume 1/1.4. Fact sheet/Point 9	18	Last Date and time for Bid/Bid submission (On or before) 15th May, 2018, up to 14:00 Hrs	We request ASCL to kindly provide 3 days additional for the hard copy submission of the Bid.	We will allow for 3 days to submit hard copy after online bid is closed
11	1	Volume 1	51	Within fifteen (15) working days from the date of issuance of LOI, the successful Bidder shall at his own expense submit unconditional and irrevocable Performance and Guarantee (PBG) of 10% of the contract value to the ASCL	We request you to extend the PBG submission date to within 30 working days.	No Change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
12	1	Volume-2	53	Taxes	As per the guidelines of Dept. of Financial Services, Ministry of Finance, Govt. of India (MOF), a separate advice of Bank Guarantee is to be sent to the advising bank i.e.. Beneficiary's bank through SFMS only, after which only paper Bank Guarantee could become operative. In view of above we request you to provide us following details: - Beneficiary's Bank & branch name - Bank Code - IFSC code - Kindly provide the validity period of Bank Guarantee	Details will be shared with awarded bidder
13	1	Volume I : 7.9.1 Annexure 4 - Bill of Quantity	78	GPS and Biometric based handheld device with Attendance management system application	what is the quantity of handheld device to be provisioned? Request to give the quantity details in the BOQ	Please check the revised attachment for Bill of Material
14	1	Volume 1 7.9. Proposed Bill of Material 7.9.1 Annexure 4 - Bill of Quantity	81	To Be Added	Requesting to add the quantity of FRS System in the BOQ, as it is not mentioned in the BOQ.	Please check the revised attachment for Bill of Material
15	1	Volume I: Invitation to Bidder 7.9.1 Annexure 4 - Bill of Quantity	77	E. City CCTV Surveillance System 11. Camera for Police Vehicle and Mobile Surveillance - Nos. 48 12. Body Worn Camera - Nos. 50	Do we need to record the video feeds from the "Police Vehicle and Mobile Surveillance" to the Video Management System (and Video Recorders) proposed for Surveillance system itself OR it will be recorded in a separate recorder related to the Police Vehicle and Mobile Surveillance? At what bit-rate, frame rate and resolution do we need to record the body won cameras? Please clarify	All Video Feeds irrespective of police vehicles or general surveillance or ITMS has to be recorded in storage considered by MSI at all available facility as per DC-DR strategy. All cameras have to be H.264 or H.265 with FPS@25 which is same as Surveillance cameras mentioned in RFP document

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16	1	Volume I, 3.5, Prequalification Criteria, Sl. No. 3	41	Sole Bidder/ Bidder (each of consortium members in case of consortium) should have a positive net worth as on last date of latest audited financial year preferably 2016-17. Certificate from the statutory auditor/ Company secretary clearly specifying the Net worth for ICT projects for the specified year to be provided.	Networth is a company wide financial parameter and not the business element wise component. Hence financial network of a company/each bidder shall be parameter.	Agreed, correct.
17	1	Volume 1, 3.5. Pre-Qualification Criteria S.No. 3	41	Bidder (each of consortium members in case of consortium) should have a positive net worth as on last date of latest audited financial year preferably 2016-17	Request to amend as Bidder (lead bidder in case of consortium) should have a positive net worth as on last date of latest audited financial year preferably 2016-17	Bidder (each of consortium members in case of consortium) should have a positive net worth as on last date of last 3 audited financial years of 2016-17, 2015-16, 2014-15
18	1	VOLUME 1/ SECTION 3.5/ CLAUSE 6	42	<ul style="list-style-type: none"> • Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years: • Adaptive Traffic management system • Intelligent Traffic Management system • Variable Messaging System/ Public Address System/Environmental Sensor / Emergency/ Panic Box System • ICT based Solid Waste Management • CCTV based Surveillance System • City Operation Command Centre / Command and Control Centre 	Considering Adaptive Traffic Management System(ATCS) being a recent development over last 2-3 years in the Indian ITS sector, experience in implementing Adaptive System Management Projects to be reduced to 3 and works order/LOA for such projects which are under different implementation phases for various projects under Smart Cities Mission also needs to be considered	No change,
19	1	Volume 1: Invitation to Bidder /3.5. Pre-Qualification Criteria/Point No . 6	42	<p>Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years:</p> <p>§ Adaptive Traffic management system</p> <p>§ Intelligent Traffic Management system</p> <p>§ Variable Messaging System/ Public Address System/ Environmental Sensor /Emergency/ Panic Box System</p> <p>§ ICT based Solid Waste Management</p> <p>§ CCTV based Surveillance System</p> <p>§ City Operation Command Centre / Command and Control Centre</p>	<p>Request for dilution of clause as "Sole Bidder or consortium should have experience in implementing/awarded/on-going 4 projects (each from different sector mentioned below) during last 7 years:</p> <p>§ Adaptive Traffic management system</p> <p>§ Intelligent Traffic Management system</p> <p>§ Variable Messaging System/ Public Address System/ Environmental Sensor / Emergency/ Panic Box System</p> <p>§ ICT based Solid Waste Management</p> <p>§ CCTV based Surveillance System</p> <p>§ City Operation Command Centre / Command and Control</p>	Clause has been revised. Please check the corrigendum and Query #9

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
					Centre / Emergency Control Room"	
20	1	Vol1,3.5 Pre-Qualification Criteria	42	<p>§ Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years:</p> <p>§ Adaptive Traffic management system</p> <p>§ Intelligent Traffic Management system</p> <p>§ Variable Messaging System/Public Address System/Environmental Sensor /Emergency/ Panic Box System</p> <p>§ ICT based Solid WasteManagement</p> <p>§ CCTV based Surveillance System</p> <p>§ City Operation Command</p>	<p>Request you to please change the criteria as below:</p> <p>§ Sole Bidder or consortium should have experience in implementing atleast 1 project (any one from different sector mentioned below) during last 7 years:</p> <p>§ Adaptive Traffic management system/Citizen Centric services system/ Intelligent Traffic Management system</p> <p>§ Variable Messaging System/Public Address System/Environmental Sensor /Emergency/ Panic Box System/Lighting & Electricity/Water Supply/urban forestry etc.</p> <p>§ ICT based Solid WasteManagement</p> <p>§ CCTV based Surveillance System/Smart utilities e.g water/property tax etc.</p> <p>§ City Operation Command/Data Centre/Networking</p> <p>§ E-Governance</p>	Clause have been revised. Please check the corrigendum
21	1	Volume 1, Section number - 3.5. Pre-Qualification Criteria, Point number 6	42	<p>Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years:</p> <p>§ Adaptive Traffic management system</p> <p>§ Intelligent Traffic Management system</p> <p>§ Variable Messaging System/ Public Address System/ Environmental Sensor / Emergency/ Panic Box System</p> <p>§ ICT based Solid Waste Management</p> <p>§ CCTV based Surveillance System</p> <p>§ City Operation Command Centre / Command and Control Centre</p>	<p>We request you to consider GPS/ Intelligent Transport Management system/ Vehicle Tracking/e-Governance Integration/Smart card Integration as one of the projects thus mentioned.</p>	No change

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22	1	Volume I	42	<p>§ Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years:</p> <p>§ Adaptive Traffic management system</p> <p>§ Intelligent Traffic Management system</p> <p>§ Variable Messaging System/ Public Address System/ Environmental Sensor / Emergency/ Panic Box System</p> <p>§ ICT based Solid Waste Management</p> <p>§ CCTV based Surveillance System</p> <p>§ City Operation Command Centre / Command and Control Centre</p>	We request you to kindly consider GIS related project during last 7 years.	Agreed. Clause have been revised. Please check the corrigendum
23	1	Volume I - 3.5 Prequalification Marking Matrix	42	<p>Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years:</p> <ul style="list-style-type: none"> • Adaptive Traffic management system • Intelligent Traffic Management system • Variable Messaging System/ Public Address System/ Environmental Sensor / Emergency/ Panic Box System • ICT based Solid Waste Management • CCTV based Surveillance System • City Operation Command Centre / Command and Control Centre 	We request you to kindly modify the eligibility criteri as under; The Bidder (any member in case of consortium) shall have successfully executed 4 projects in last seven years Number of projects executed in any of the following 3 different sectors	Clause have been revised. Please check the corrigendum
24	1	Volume I - 3.7 Technical Marking Matrix all TQ	37		for the on going projects we request to accept Client / Self Certificate for ongoing or completed project. Or CA certificate for 80% CAPEX completed for ongoing project.	No change
25	1	Volume 1/1.4. Fact sheet/Point 5	18	Rupees 5 Crores Only (INR 5,00,00,000/-) through e-Procurement portal or by Bank Guarantee (as per format attached in Annexure 7(b))	Requesting ASCL to kindly confirm the payment of EMD through e- procurement portal as clause 2.8 of volume 1 says that EMD shall be in the form of Bank Gurantee as per Form Annexure 7(b)	Rupees 5 Crores Only (INR 5,00,00,000/-) through e-Procurement portal is for EMD
26	1	Volume 2: Scope of Work 3.7. Emergency Call Box System or Panic Box	35	To be added	Technical specifications of the ECB is not mentioned in the tender, please help to provide the same.	There is no modification in the RFP document. Emergency Call Box and Panic Button are same.

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27	1	Volume 1/3.5 Pre-qualification Criteria/Point 6	42	Copies of Work Order, Work Completion certificate by Client Entity (on Client Entity letterhead) and other relevant documents clearly highlighting the Scope of Work, Bill of Material and Value of Contract.	Request ASCL to allow non-letterhead Client certificate signed by customer specifying Scope of Work, Duration and Value of Contract as valid proof.	No Change
28	1	Volume 1 / 1 / 1.2 1.2. Need for Present Assignment & Brief Scope of Work	17	Integration Components - E-Governance System	Requesting you to clarify what kind of e-Governance system needs to be integrated as there are numerous e-Governance systems.	Integration scope is considering what is available at present and shall be added in future as city arises with requirement
29	1	Volume 1/2.8. Earnest Money Deposit (EMD)	22	The Bidder shall furnish, as part of his tender, earnest money deposit of INR 5,00,00,000 (Rupees 5 Crore only) This earnest money deposit shall be in in the form of Bank Guarantee as per Form 7 (b).	Annexure 7(b) is missing. Requesting to kindly share the format	There is no change in the RFP document, The requested format is already available.
30	1	Volume I, 3.8	49	5. ITMS & ATCS expert: § Education: Full Time MCA/M. Tech/B. Tech/B.E. from a reputed institute. § Total Experience: At least 5 years in IT sector § Should have more than 3 years experience as Traffic Engineer	The ITMS & ATCS expert is a traffic engineer and is not someone from the IT industry. Request you to remove the IT sector experience, as it is irrelevant.	No change.
31	1	7.9.1 Annexure 4 - Bill of Quantity	74	Kindly add " Edge Analytics Server" in the Bill of QTY	Kindly add " Edge Analytics Server" in the Bill of QTY as per RFP requirement	MSI to decide the Hardware BoM for edge analytic requirement,
32	1	Master System Integrator – Volume 1: Invitation to Bidder, 7.9.1 Annexure 4 - Bill of Quantity	76	D.11 Cantilever poles along with foundation D. 12 Standard pole along with foundation	Kindly specify the quantity	MSI to conduct survey as per SoW and provide best fit
33	1	General	-	General	Please confirm that indoor space for warehouse during implementation and warranty/AMC will be provided by ASCL.	MSI to create their own facility
34	1	Volume I: Invitation to Bidder 7.9.1 Annexure 4 - Bill of Quantity	76	E. City CCTV Surveillance System 4. Video Analytics Software with License (Considering DR) Lot 2	How many cameras/ channels do we need to support "Server based" Video Analytics (VA) capability? Please confirm. Video Analytics Software license is equal to the number of cameras/channels on which Video Analytics is supported.	Clause is clear, please check RFP and corrigendum for details

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35	1	Vol 1/ 7.9.1 Annexure 4 Bill of Quantity (G. Solid Waste Management)	77	5. RFID/QR Based Reader Devices or Smart Phones	Please clarify on the quantities required for RFID Reader as well as for Smart Phones.	MSI to determine the quantities as only technology is determined in current MSI document
36	1	Volume 1 Sectio 2.28(r)	35	Each of the proposed OEMs should either have existing capability and infrastructure to provide 24x7 technical support in India, or should provide an undertaking that they would establish the requisite infrastructure and capability to provide 24x7 technical support, on emerging a winner in this bidding process.	Please clarify as to What is expected out from the OEM's here? Do each OEM opens a call centre? This requirement is seemingly incorrect and hence needs to be removed as there are no parameters set for categorising the OEM.	MSI will determine the nature of support required from OEM
37	1	Vol 1 / Section 3.7. Technical Bid Criteria & Evaluation- B.1	45	Use cases relevant to Agra City: Bidder /OEM needs to demonstrate/present min 5 use cases like CCTV /Govt database / Smart Digital Signage Kiosks /Smart Transport/ Crowd monitoring/Search and tracking of person of interest etc.	Kindly clarify if use case for GIS COTS Integration can also be demonstrated for Technical evaluation.	No
38	1	SECTION: I INSTRUCTION TO BIDDERS/ 1.15. SOURCE CODE & IPR	13	In case of COTS products, the bidder shall provide DFS the right to reuse the application software with or without changes for non-commercial purposes within Delhi.	Assuming the IPR rights of Proposed product/COTS Product & Source code will remain with Bidder. Request to dilute the clause accordingly.	No modification in the RFP document
39	1	SECTION: I INSTRUCTION TO BIDDERS/ 2.1. PRE-QUALIFICATION CRITERIA	15	The consortium partner/bidder should have implemented at least 3 similar project of worth Rs. 4 Crore each (in last 5 years as on last date of bid submission). Similar is defined as: The bidder must have executed project of worth Rs. 4 Crores each at least (in last 5 years) & should include following 04 components- 1. GIS based web & mobile application development AND any three out of following four; 1. Establishment of Emergency Control Room OR CAD based Control Room or AVLS based control room 2. GIS based Vehicle Tracking System 3. Establishment of Data Center 4. Supply & commissioning of Hardware (must include Mobile Data Terminal Devices)	Request for dilution of clause as " The consortium partner/bidder should have implemented or awarded at least 3 similar project of worth Rs. 4 Crore each (in last 7 years as on last date of bid submission). Similar is defined as: The bidder must have executed project of worth Rs. 4 Crores each at least (in last 7 years) & should include following 04 components- 1. GIS based web & mobile application development AND any three out of following four; 1. Establishment of Command & Control Room OR CAD based Control Room or AVLS based control room 2. GIS based Vehicle Tracking System 3. Establishment of Data Center 4. Supply & commissioning of Hardware (must include Mobile Data Terminal Devices)"	No modification in the RFP document

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40	1	Volme -I, Fact Sheet	18	Rupees 5 Crores Only (INR 5,00,00,000/-) through e-Procurement portal or by Bank Guarantee (as per format attached in Annexure 7(b))	requested to exempt PSU and Central Govt. Agencies for EMD submission	No modification in the RFP document
41	1	Volume 1	19	Currency in which the Bidders may quote the price and will receive payment is INR only.	We understand that Bidder may quote in any currency which will be reflected in total as mix of INR and other currencies . Kindly confirm	No modification in the RFP document
42	1	Volume 1, Section number - 2.2. Eligible Bidders	20	A consortium should not consist of more than 4 (four) parties (including the Lead Bidder).	Kindly relax for five consortium partner including Lead Bidder	No modification in the RFP document
43	1	Volume 1 / 2 / 2.2 Eligible Bidders	20	Experience of OEM companies can be used for Bidder Project Experience in one component only.	We request you to amend the clause as "Experience of OEM companies can be used for Bidder Project Experience in any component only."	No modification in the RFP document
44	1	Vol 1/ SectionIII / Pre qualification Criteria	24	Sole Bidder/ Bidder (each of consortium members in case of consortium) should have a positive net worth as on last date of latest audited financial year preferably 2016-17.	The Sole Bidder or lead member (in case of Consortium) should have been making profit for the last three financial years i.e. 2014-2015, 2015-2016 & 2016-17.	No modification in the RFP document
45	1	Volume 1	33	2.27 The bidder would not be allowed to sub-contract work unless such parties are explicitly mentioned in the Bid-Response, except for the following: i. Civil Construction work ii. Facility Management Staff at Command Control Center Sub-contracting shall be allowed only with prior written approval of ASCL.	This clause may be modified to allow bidder to give notice of appointment of subcontractor within a reasonable time of such appointment as prior approval may create operational challenges.	No modification in the RFP document
46	1	VOL I - 2.28	34	Eligible Goods and Services, and OEM Criteria	Kindly append that the bidder shall not propose any freeware software/community edition. (as any such underlying freeware/community-edition may be a severe security risk).	No modification in the RFP document
47	1	VOL I - 2.28	34	Eligible Goods and Services, and OEM Criteria	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.	No modification in the RFP document
48	1	Volume II Payment Terms and Schedule	34	10% of contract value On resource mobilisation	Request to release 10% of contract value in advance on contract signing & BG Submission.	No modification in the RFP document

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49	1	Volume 1	34	The Bidder shall quote only one specific make and model from only one specific OEM, for each of the goods	<p>Since as System Integrator, We are responsible to meet the technical specification and SLA levels for the entire technical Solution. In this regard we understand that we shall propose multiple makes (other than software components) which are technically equivalent and would meet RFP requirements.</p> <p>This will help the SI to offer a very competitive price to the customer by taking aggressive risks on their costs, which will totally benefit the customer. If only one make is insisted the vendor does not support the Si in times and therefore the costs go up considerably.</p> <p>For your Kind information, in almost all of the government contracts there is a list of Compendium of Suppliers approved for each of their item required for the Project. This list is made part of the contract.</p> <p>During execution of the contract, the SI/Contractor shall have to supply materials of makes/vendors who are in that list only. Hence we request you to kindly accept the same.</p>	No modification in the RFP document
50	1	Volume 1 Sectio 2.28(k)	35	All the OEMs should have authorized presence in India either directly or through channel partner(s) as on the date of release of RFP.	It should be changed to OEM's should have direct presence only as it shows the commitment and responsibility of OEM to deliver. Also Camera OEM should have supplied a minimum of 1000 cameras in Smart city and City Surveillance Projects.	No modification in the RFP document
51	1	Volume-1, 2.29. Right to vary quantity	36	d. During the course of implementation and detailed due diligence it may be required to vary the quantity and location of the field devices to suit the overall smart city requirements. The MSI/consortium should be required to provision and supply such field devices and the backend resources at the unit rates quoted in the tender response. Such escalations /additions may go up to 25% of the specified BOQ.	We request you to limit the quantity variation as + or 10% of original RFP Quantity	No modification in the RFP document

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52	1	vol-I	36	<p>Right to vary quantity</p> <p>a. At the time of award of contract and post award of work, the quantity of goods, works or services originally specified in the bidding documents may be increased. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents. In the event, either the goods, works or services for which variation is sought after award of work then the same shall be done through Change Request Note. The CRN will be evaluated by a Third Party Committee formed by the Employer and the decision of the Committee will be final on the scope and rate.</p>	What is minimum and maximum variation in quantities and till what time?	No change and Clause is clear
53	1	<p>Vol_1</p> <p>3.7. Technical Bid Criteria & Evaluation</p> <p>A.1 BIDDERS COMPETENCE EXECUTING ICT Projects</p>	37	<p>Bidder (any consortium member) should have experience in executing large ICT projects (excluding civil works) worth at least INR 60 Crores, cumulative over 3 completed financial years and up to date of upload of tender.</p> <p>The ICT projects would include the following:</p> <p>a) Data Center / Disaster Recovery establishment</p> <p>b) OFC/ Network Deployment</p> <p>c) Applications/Software Development</p> <p>Value of Projects More than INR 100 Crore - 100% Mark</p> <p>Value of Projects from INR 75 to 100 Crore - 75% Mark</p> <p>Value of Projects from INR 60 to 75 Crore - 50 % Mark</p>	<p>We request you to please include below ICT Components experience also:</p> <p>1) e-Governance</p> <p>2) CCTV Sureveillance System for Important Govt installations or premises</p> <p>3) Variable Message Sign Boards</p> <p>4) City Surveillance System / Surveillance for important Govt. / PSU installations or premises.</p> <p>5) Intelligent Traffic Management System</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
54	1	Vol_1 3.7. Technical Bid Criteria & Evaluation A.1 BIDDERS COMPETENCE EXECUTING ICT Projects	37	<p>Bidder (any consortium member) should have experience in executing large ICT projects (excluding civil works) worth at least INR 60 Crores, cumulative over 3 completed financial years and up to date of upload of tender.</p> <p>The ICT projects would include the following:</p> <p>a) Data Center / Disaster Recovery establishment</p> <p>b) OFC/ Network Deployment</p> <p>c) Applications/Software Development</p> <p>Value of Projects More than INR 100 Crore - 100% Mark</p> <p>Value of Projects from INR 75 to 100 Crore - 75% Mark</p> <p>Value of Projects from INR 60 to 75 Crore - 50 % Mark</p>	<p>We request you to please rephrase this clause as to increase participation.</p> <p>"Bidder (any consortium member) should have experience in executing large ICT projects (excluding civil works) worth at least INR 20 Crores, cumulative over 10 completed financial years and up to date of upload of tender.</p> <p>The ICT projects would include the following:</p> <p>a) Data Center / Disaster Recovery establishment</p> <p>b) OFC/ Network Deployment</p> <p>c) Applications/Software Development</p> <p>Value of Projects More than INR 50 Crore - 100% Mark</p> <p>Value of Projects from INR 35 to 50 Crore - 75% Mark</p> <p>Value of Projects from INR 20 to 35 Crore - 50 % Mark</p>	No modification in the RFP document
55	1	Volume 1 / 3.5. Pre-Qualification Criteria	40	To Be added	<p>2. OEM of surveillance cameras should have supplied atleast 5000 IP Box type cameras in a single qualifying order or 10000 IP cameras cumulatively in qualifying orders during the 24 months prior to the month of issuance of the RFP.</p> <p>Qualifying orders -</p> <p>a. The order should be for a supply meant entirely for a Project of Smart city / Safe city / Airports / Railways.</p> <p>b. The project must involve central management via servers. Orders pertaining to standalone NVR system will not count.</p> <p>c. The orders may be from within India or globally, sufficient appropriate evidences and undertakings must be given for corroboration.</p> <p>Document Required: Copies of Purchase orders, Invoices, Tender documents, LOI from end user (Documents may be reasonably redacted for values incase of the presence of a Non-Disclosure Agreement in case of supplies made to defence sectors).For projects under implementation, supply should have been completed as on date of issue of RFP.</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
56	1	Volume 1 / 3.5. Pre-Qualification Criteria	40	To Be added	3. OEM of ANPR cameras and software should have supplied atleast 2000 ANPR cameras / softwares either within India or globally. Document Required: Copies of Purchase orders, Invoices, Tender documents, LOI from end user (Documents may be reasonably redacted for values incase of the presence of a Non Disclosure Agreement in case of supplies made to defence sectors). For projects under implementation, supply should have been completed as on date of issue of RFP.	No modification in the RFP document
57	1	Volume 1 / 3.5. Pre-Qualification Criteria	40	To Be added	In order to secure the interest of the government and ensure stable OEMs participate we request the RFP to have an OEM prequalification criteria, this can be pervasively observed in prominent recent RFPs for similar smart city works. The points can be included as follows: "OEM Pre-Qualification Criteria : 1. OEMs of proposed equipment/components should have an office as a registered company in India for last five years as on the bid issuance date. Registered offices by way of Joint ventures, Franchise, agency, distribution partners will not be considered. In case of the company having a foreign parent / holding company, The company shall be a wholly owned subsidiary. Document Required: Undertaking & copies of supporting documents from the Bidder confirming the compliance along with the OEM authorization.	No modification in the RFP document
58	1	Vol.1,Stage-4	40	The final score will be calculated through Quality and Cost selection method based with the following weight-age: Technical: 80% Commercial: 20%	Request you to please change the criteria as below: The final score will be calculated through Quality and Cost selection method based with the following weight-age: Technical: 70% Commercial: 30%	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
59	1	Vol1,3.5 Pre-Qualification Criteria	41	Sole Bidder/ Consortium should have an annual turnover of INR 500 Crore for last 3 audited financial years In case of a consortium the lead bidder shall have at least 50% of the stated annual turnover.	Considering the large value of Project Request department to change the criteria as below: Sole Bidder/ Consortium should have an annual turnover of INR 800 Crore for last 3 audited financial years In case of a consortium the lead bidder shall have at least 50% of the stated annual turnover.	No modification in the RFP document
60	1	Vol 1 ,PQ 5	41	"Sole Bidder or the Lead bidder of consortium or any member of the consortium, should possess relevant ISO Certifications (any 1) which are valid at the time of bidding: • ISO 9001:2008 / ISO 20000:2011 for IT Service Management or equivalent certification / ISO 27001:2013 for Information Security Management System or equivalent certification • CMMI Level 3 or higher "	In Large scale ICT projects CMMi certifications are important as they allow more mature Software Development organizations to participate. Moreover CMMi certified organizations invariably brings consistency, cost effectiveness, self improvement, city specific customization and anticipation and prevention of future challenges. So request you read the clause as below Sole Bidder or any member of the consortium, should possess valid CMMI and following ISO Certifications valid at the time of bidding: ISO 9001:2008 / ISO 20000:2011 for IT Service Management or equivalent certification / ISO 27001:2013 for Information Security Management System or equivalent certification CMMI Level 3/5 "	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
61	1	Vol 1 ,PQ 5	41	<p>"Sole Bidder or the Lead bidder of consortium or any member of the consortium, should possess relevant ISO Certifications (any 1) which are valid at the time of bidding:</p> <ul style="list-style-type: none"> • ISO 9001:2008 / ISO 20000:2011 for IT Service Management or equivalent certification / ISO 27001:2013 for Information Security Management System or equivalent certification • CMMI Level 3 or higher " 	<p>In Large scale ICT projects CMMi certifications are important as they allow more mature Software Development organizations to participate. Moreover CMMi certified organizations invariably brings consistency, cost effectiveness, self improvement, city specific customization and anticipation and prevention of future challenges. So request you read the clause as below</p> <p>Sole Bidder or any member of the consortium, should possess valid CMMI and following ISO Certifications valid at the time of bidding:</p> <p>ISO 9001:2008 / ISO 20000:2011 for IT Service Management or equivalent certification / ISO 27001:2013 for Information Security Management System or equivalent certification</p> <p>CMMI Level 3/5 "</p>	No change
62	1	Vol1,3.5 Pre-Qualification Criteria	41	<p>Sole Bidder or the Lead bidder of consortium or any member of the consortium, should possess relevant ISO Certifications (any 1) which are valid at the time of bidding:</p> <ul style="list-style-type: none"> • ISO 9001:2008 /ISO 20000:2011 for IT Service Management or equivalent certification /ISO 27001:2013 for InformationSecurity Management System or equivalent certification • CMMI Level 3 or higher 	<p>Request you to please change the criteria as below:</p> <p>Sole Bidder or the Lead bidder of consortium or any member of the consortium, should possess any 1 below certifications which are valid at the time of bidding:</p> <ul style="list-style-type: none"> • ISO 9001:2008 /ISO 20000:2011 for IT Service Management or equivalent certification /ISO 27001:2013 for InformationSecurity Management System or equivalent certification • CMMI Level 3 or higher 	Duplicate
63	1	Volume-1, 3.5. Pre-Qualification Criteria	41	<p>Sole Bidder/ Consortium should have an annual turnover of INR 500 Crore for last 3 audited financial years In case of a consortium the lead bidder shall have at least 50% of the stated annual turnover.</p>	<p>We request you to amend the clause as mentioned below</p> <p>Sole Bidder/ Consortium should have an annual turnover of INR 500 Crore for last 3 audited financial years In case of a consortium the lead bidder shall have at least 70% of the stated annual turnover.</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
64	1	Volume I	41	<p>Sole Bidder or the Lead bidder of consortium or any member of the consortium, should possess relevant ISO Certifications (any 1) which are valid at the time of bidding:</p> <ul style="list-style-type: none"> • ISO 9001:2008 / ISO 20000:2011 for IT Service Management or equivalent certification / ISO 27001:2013 for Information Security Management System or equivalent certification • CMMI Level 3 or higher 	We request you to kindly consider ISO 9001:2015 and ISO/IEC 27001:2005. Kindly consider.	No modification in the RFP document
65	1	Volume 1, Section number - 3.7. Technical Bid Criteria & Evaluation, Point number - A1	43	<p>Bidder (any consortium member) should have experience in executing large ICT projects (excluding civil works) worth at least INR 60 Crores, cumulative over 3 completed financial years and up to date of upload of tender.</p> <p>The ICT projects would include the following:</p> <ul style="list-style-type: none"> a) Data Center / Disaster Recovery establishment b) OFC/ Network Deployment c) Applications/Software Development 	Additionally we request you to kindly consider e-Governance as one of the experience in executing large ICT projects	No modification in the RFP document
66	1	3.7. Technical Bid Criteria & Evaluation. A.3 BIDDERS COMPETENCE EXECUTING – Solid Waste Management.	43	Copies of work order, work completion certificate and other relevant documents.	As you are aware, ICT Enabled Solid Waste Management is new concept to India and most of the projects are under execution. Thus, work orders, agreements, or work completion certificates, which ever are applicable, are to be considered as relevant documents. In addition, the respective State Urban Development Authority tenders some of the projects are executed individually at each of the Municipality/ Urban Local Body. We request each of such project to be considered as separate project	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
67	1	Volume 1, Section number - 3.7. Technical Bid Criteria & Evaluation, Point number - A1	43	Bidder (any consortium member) should have experience in executing large ICT projects (excluding civil works) worth at least INR 60 Crores, cumulative over 3 completed financial years and up to date of upload of tender. The ICT projects would include the following: a) Data Center / Disaster Recovery establishment b) OFC/ Network Deployment c) Applications/Software Development	Kindly request you to consider project experience cumulative over (5) completed financial years and up to date of upload of tender.	No modification in the RFP document
68	1	Volume 1, 3.7. Technical Bid Criteria & Evaluation S.No. A1	43	BIDDERS COMPETENCE EXECUTING ICT Projects Bidder (any consortium member) should have experience in executing large ICT projects worth at least INR 60 Crore, cumulative over 3 completed financial years and upto date of upload of tender.	Request to amend as Bidder (any consortium member) should have experience in executing large ICT projects worth at least INR 60 Crore, cumulative over 5 completed financial years and upto date of upload of tender.	No modification in the RFP document
69	1	Volume 1/Technical Bid Criteria & Evaluation A.2	43	Bidder (any consortium member) should have experience in executing a project for CCTV security & Surveillance for Central Government Authorities / Smart cities / safe cities / ITMS	We request the department to amend the clause to: "Bidder (any consortium member) should have experience in executing a project for security & Surveillance for Central Government Authorities / Smart cities / safe cities / ITMS"	No modification in the RFP document
70	1	3.7. Technical Bid Criteria & Evaluation. A.3 BIDDERS COMPETENCE EXECUTING – Solid Waste Management.	43	Copies of work order, work completion certificate and other relevant documents.	We request to change the Documentary Evidence as: Copies of work order or agreement or work Completion certificate and other relevant documents. We request to kindly confirm that each individual project shall be separately be counted for evaluation.	No modification in the RFP document
71	1	Volume 1, Section number - 3.7. Technical Bid Criteria & Evaluation, Point number - A2	43	Bidder (any consortium member) should have experience in executing a project for CCTV security & Surveillance for Central Government Authorities / Smart cities / safe cities / ITMS	We request you to consider experience in execution of CCTV Surveillance/ITMS In India and total worth of each projects should be a minimum value of One Crore	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
72	1	Volume-1, 3.7. Technical Bid Criteria & Evaluation	43	A.3 BIDDERS COMPETENCE EXECUTING – Solid Waste Management Supporting Documents required : Copies of work order, work completion certificate and other relevant documents	We request you to kindly amend the clause as mentioned below A.3 BIDDERS COMPETENCE EXECUTING – Solid Waste Management Supporting Documents required : Copies of work order, work completion certificate and other relevant documents, for ongoing projects LOI/Work order dated should be 4 months before from date of NIT	No modification in the RFP document
73	1	Volume-1, 3.7. Technical Bid Criteria & Evaluation	43	A.4 BIDDERS COMPETENCE EXECUTING Adaptive Traffic Control System Supporting Documents required : Copies of work order, work completion certificate and other relevant documents	We request you to kindly amend the clause as mentioned below A.4 BIDDERS COMPETENCE EXECUTING Adaptive Traffic Control System/ ITMS Supporting Documents required : Copies of work order, work completion certificate and other relevant documents	No modification in the RFP document
74	1	Volume-1, 3.7. Technical Bid Criteria & Evaluation	43	A.4 BIDDERS COMPETENCE EXECUTING Adaptive Traffic Control System Supporting Documents required : Copies of work order, work completion certificate and other relevant documents	We request you to kindly amend the clause as mentioned below A.4 BIDDERS COMPETENCE EXECUTING Adaptive Traffic Control System Supporting Documents required : Copies of work order, work completion certificate and other relevant documents, for ongoing projects LOI/Work order dated should be 4 months before from date of NIT	No modification in the RFP document
75	1	Vol 1 ,TQ A.3	44	BIDDERS COMPETENCE EXECUTING – Solid Waste management "Bidder (Any consortium member) should have experience in execution of ICT Based Waste Collection & Monitoring System/ICT Based Solid Waste Management System in Municipalities In India and total worth of projects should be a minimum value of One Crore . Number of Projects %of Marks allotted	"In Large scale ICT projects CMMi certifications are important as they allow more mature Software Development organizations to participate. Moreover CMMi certified organizations invariably brings consistency, cost effectiveness, self improvement, city specific customization and anticipation and prevention of future challenges. In lieu of the clause we would suggest you the clause for Solid Waste Management we would suggest the following clause for inclusion. 1. ISO 9001:2008 ,ISO 20000:2011 ,ISO 27001:2013 & CMMi Level 3: 50% Marks 2. ISO 9001:2008 ,ISO 20000:2011 ,ISO 27001:2013 & CMMi Level 5: 100% Marks	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				> or =4 100 % =3 75 % =2 50 %	Applicable for any member of consortium "	
76	1	Vol 1 ,TQ A.3	44	BIDDERS COMPETENCE EXECUTING – Solid Waste management "Bidder (Any consortium member) should have experience in execution of ICT Based Waste Collection & Monitoring System/ICT Based Solid Waste Management System in Municipalities In India and total worth of projects should be a minimum value of One Crore . Number of Projects %of Marks allotted > or =4 100 % =3 75 % =2 50 % "	"In Large scale ICT projects CMMi certifications are important as they allow more mature Software Development organizations to participate. Moreover CMMi certified organizations invariably brings consistency, cost effectiveness, self improvement, city specific customization and anticipation and prevention of future challenges. In lieu of the clause for Solid Waste Management we would suggest you the following clause for inclusion: 1. ISO 9001:2008 ,ISO 20000:2011 ,ISO 27001:2013 & CMMi Level 3: 50% Marks 2. ISO 9001:2008 ,ISO 20000:2011 ,ISO 27001:2013 & CMMi Level 5: 100% Marks Applicable for any member of consortium "	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
77	1	Vol 1 ,TQ A.5	44	<p>BIDDERS COMPETENCE EXECUTING – CITY OPERATIVE CENTER(COC)/COMMON COMAND & CONTROL CENTER (CCC) "Bidder (any consortium member) should have experience in executing a city wide project project that entails operationalization of COC/CCC.</p> <p>Number of Projects %of Marks allotted > or =4 100 % =3 75 % =2 50 % "</p>	<p>"It is believed that the capabilities of CCC platform can be better ascertained and established if the platform has demonstrable credibility for relevant use cases in India Context.</p> <p>Experience in Implementation of integrated Command and Control Center (CCC) / Network Operating Center (NOC)/Utility Enterprise Integration Platform in India.</p> <p>The sole bidder or any member of the consortium should have deployed Command Centre Platform in India or abroad in last 5 years, with each project of value Rs.5 Cr and above.</p> <p>The platform should have been deployed with atleast any 3 unique and relevant use cases of the following like Smart Lighting, Video Surveillance, Smart Card, Wi-Fi , Smart Energy, Smart Water, Smart Waste Management, Environment Monitoring, Citizen Service Delivery, Mobile work-force management, KPI Monitoring & Executive Dashboards and law enforcement.</p> <ul style="list-style-type: none"> • 4 citations = 10 mark, • 3 citations = 7.5 marks, • 2 citations = 5 marks, • 1 citation = 2.5 marks • else 0 Marks <p>Documentary Proof: Client Completion stating the scope of work and copy of Work Order."</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
78	1	Vol 1 ,TQ A.5	44	<p>BIDDERS COMPETENCE EXECUTING – CITY OPERATIVE CENTER(COC)/COMMON COMAND & CONTROL CENTER (CCC) "Bidder (any consortium member) should have experience in executing a city wide project project that entails operationalization of COC/CCC.</p> <p>Number of Projects %of Marks allotted > or =4 100 % =3 75 % =2 50 % "</p>	<p>"It is believed that the capabilities of CCC platform can be better ascertained and established if the platform has demonstrable credibility for relevant use cases in India Context.</p> <p>Experience in Implementation of integrated Command and Control Center (CCC) / Network Operating Center (NOC)/Utility Enterprise Integration Platform in India.</p> <p>The sole bidder or any member of the consortium should have deployed Command Centre Platform in India or abroad in last 5 years, with each project of value Rs.5 Cr and above.</p> <p>The platform should have been deployed with atleast any 3 unique and relevant use cases of the following like Smart Lighting, Video Surveillance, Smart Card, Wi-Fi , Smart Energy, Smart Water, Smart Waste Management, Environment Monitoring, Citizen Service Delivery, Mobile work-force management, KPI Monitoring & Executive Dashboards and law enforcement.</p> <ul style="list-style-type: none"> • 4 citations = 10 mark, • 3 citations = 7.5 marks, • 2 citations = 5 marks, • 1 citation = 2.5 marks • else 0 Marks <p>Documentary Proof: Client Completion stating the scope of work and copy of Work Order."</p>	No modification in the RFP document
79	1	Volume I, 3.7	44	<p>A.4 BIDDERS COMPETENCE EXECUTING Adaptive Traffic Control System Bidder (any consortium member) should have experience in executing a project that entails Adaptive Traffic Control System for at least 10 signal junctions in a single project</p> <p>Number of Projects % marks > or = 4 100% =3 75%</p>	<p>As ATCS is an upcoming technology, deployed in a handful of cities in India, asking for multiple projects may not be feasible. Hence request you to change the criteria to the number of junctions under ATCS, in plcae of number of projects. We request you to revise the criteria to the following: Bidder (or any consortium member) should have experience in executing projects that entails Adaptive Traffic Control Systems with:</p> <p>Number of junctions % marks > or = 35</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				=2 50%	100% < 35 &> or = 25 75% < 25 &> or = 15 50%	
80	1	Volume 1: Invitation to Bidder /3.7. Technical Bid Criteria & Evaluation/Point No.A.5	44	BIDDERS COMPETENCE EXECUTING – CITY OPERATIVE CENTER(COC)/COMMON COMAND & CONTROL CENTER (CCC) Bidder (any consortium member) should have experience in executing a city wide project that entails operationalization of COC/CCC	Request for modification of clause as "BIDDERS COMPETENCE EXECUTING – CITY OPERATIVE CENTER(COC)/COMMON COMAND & CONTROL CENTER (CCC)/ EMERGENCY CONTROL ROOM(ECR)" and Request for dilution of clause as "Bidder (any consortium member) should have experience in executing//awarded/on-going a city wide project that entails operationalization of COC/CCC/ECR"	No modification in the RFP document
81	1	Volume -I, Section 3.7. Technical Bid Criteria & Evaluation	44	BIDDERS COMPETENCE EXECUTING – Solid Waste Management	Request you to change it 2 projects. As no. of players in the Market on SWM is very limited	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
82	1	Master System Integrator – Volume 1: Invitation to Bidder, 3.7. Technical Bid Criteria & Evaluation	44	<p>A.3 BIDDERS COMPETENCE EXECUTING – Solid Waste Management</p> <p>Bidder (Any consortium member) should have experience in execution of ICT Based Waste Collection & Monitoring System/ICT Based Solid Waste Management System in Municipalities In India and total worth of projects should be a minimum value of One Crore</p> <p>Number of Projects % of Max Marks Allotted > or =4 100 % =3 75 % =2 50 %</p> <p>Copies of work order, work completion certificate and other relevant document</p>	Request you to consider On-going Projects with with a value of Rs. 50 Lakhs with 50% Implementation work completed (Capex).	No modification in the RFP document
83	1	Vol1,3.7 Technical Bid Criteria & Evaluation	44	<p>A.2-Bidder (any consortium member) should have experience in executing a project for CCTV security & Surveillance for Central Government Authorities / Smart cities / safe cities / ITMS. > =4 projects of 5 crores each or 2 projects of 10 crores each-100% =3 projects of 5 crores each or 2 projects of 7.5 crores each-75% =2 projects of 5 crores each-50%</p>	<p>Request you to please change the criteria as below:</p> <p>A.2-Bidder (any consortium member) should have experience in executing a project for CCTV security & Surveillance /Networking/Infrastruture for Central Government Authorities / Smart cities / safe cities / ITMS/Municipal Corporation. =1 projects of total value 50 Cr-100% =1 projects of total value 30 Cr-75% =1 projects of total value 20 Cr-50%</p>	No modification in the RFP document
84	1	Vol1,3.7 Technical Bid Criteria & Evaluation	44	<p>A.3-Bidder (Any consortium member) should have experience in execution of ICT Based Waste Collection & Monitoring System/ICT Based SolidWaste Management System in Municipalities In India and total worth of projects should be a minimum value of One Crore > or =4-100 % =3=75 % =2=50 %</p>	<p>Request you to please change the criteria as below:</p> <p>A.3-Bidder (Any consortium member) should have experience in execution of ICT Based Waste Collection & Monitoring System/ICT Based SolidWaste Management System in Municipalities In India and total worth of projects should be a minimum value of One Crore =1 projects of total value 50 Cr-100% =1 projects of total value 30 Cr-75% =1 projects of total value 20 Cr-50%</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
85	1	Vol1,3.7 Technical Bid Criteria & Evaluation	44	A.4-Bidder (any consortium member) should have experience in executing a project that entails Adaptive Traffic Control System for at least 10 signal junctions in a single project. > or = 4-100 % =3-75 % =2-50 %	Request you to please change the criteria as below: A.4-Bidder (any consortium member) should have experience in executing a project that entails Adaptive Traffic Control System/ for at least 10 signal junctions in a single project or e-governance project including deployment of e-municipal application software. =1 projects of total value 30 Cr-100% =1 projects of total value 20 Cr-75% =1 projects of total value 10 Cr-50%	No modification in the RFP document
86	1	Vol1,3.7 Technical Bid Criteria & Evaluation	44	A.5-Bidder (any consortium member) should have experience in executing a city wide project that entails operationalization of COC/CCC. > or =4-100 % =3-75 % =2-50 %	Request you to please change the criteria as below: A.5-Bidder (any consortium member) should have been successfully executed projects in Data Centre (DC) or Command Control Center build in the last 5 years in India Marks shall be allotted as below: =1 projects of total value 60 Cr-100% =1 projects of total value 40 Cr-75% =1 projects of total value 20 Cr-50%	No modification in the RFP document
87	1	Volume 1 Clause 3.7	44	Bidder competence executing solid waste management- Bidder should have experience of an execution of ICT based waste collection and monitoring system/ ICT Based Solid waste management system in Municipalities in India and total worth of projects should be a minimum value of 1 Cr	Requesting you to please clarify that the value of all projects should be 1 cr or each project should have value of more than 1 cr, as in swm processes if small municipalities will not have such large scale ICT projects so requesting you to please allow the projects for which the total value of all projects should be more than 1 cr	No modification in the RFP document
88	1	Volume 1/Technical Bid Criteria & Evaluation A.4	44	Bidder (any consortium member) should have experience in executing a project that entails Adaptive Traffic Control System for at least 10 signal junctions in a single project	We request the department to amend the clause to: "OEM should have experience in executing a project that entails Adaptive Traffic Control System for at least 10 signal junctions in a single project"	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
89	1	Volume 1/Technical Bid Criteria & Evaluation A.5	44	Bidder (any consortium member) should have experience in executing a city wide project that entails operationalization of COC/CCC Number of Projects		

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response																
93	1	Vol-I, 3.7. Technical Bid Criteria & Evaluation	45	<p>A.5 BIDDERS COMPETENCE EXECUTING – CITY OPERATIVE CENTER(COC)/ COM MON COMAND & CONTROL CENTER (CCC)</p> <p>Bidder (any consortium member) should have experience in executing a city wide project that entails operationalization of COC/CCC</p>	<p>In this regard, we would like to inform you that City base Operation Command Centre / Command and Control Centre projects implemented by very limited bidder. Hence requesting you kindly delete "City" and amend the clause accordingly.</p>	No modification in the RFP document																
94	1	Vol-I, 3.7. Technical Bid Criteria & Evaluation	45	<p>A.3 BIDDERS COMPETENCE EXECUTING – Solid Waste Management</p> <p>Bidder (Any consortium member) should have experience in execution of ICT Based Waste Collection & Monitoring System/ICT Based Solid Waste Management System in Municipalities In India and total worth of projects should be a minimum value of One Crore.</p> <table><tr><td>Number of Projects</td><td>% of Max Marks Allotted</td></tr><tr><td>> or =4</td><td>100 %</td></tr><tr><td>=3</td><td>75 %</td></tr><tr><td>=2</td><td>50 %</td></tr></table>	Number of Projects	% of Max Marks Allotted	> or =4	100 %	=3	75 %	=2	50 %	<p>Requesting you kindly amend the clause like:</p> <p>A.3 BIDDERS COMPETENCE EXECUTING – Solid Waste Management</p> <p>Bidder (Any consortium member) should have experience in execution of ICT Based Waste Collection & Monitoring System/ICT Based Solid Waste Management System in Municipalities In India and total worth of projects should be a minimum value of One Crore.</p> <table><tr><td>Number of Projects</td><td>% of Max Marks Allotted</td></tr><tr><td>= 3 or More</td><td>100 %</td></tr><tr><td>=2</td><td>75 %</td></tr><tr><td>=1</td><td>50 %</td></tr></table>	Number of Projects	% of Max Marks Allotted	= 3 or More	100 %	=2	75 %	=1	50 %	No modification in the RFP document
Number of Projects	% of Max Marks Allotted																					
> or =4	100 %																					
=3	75 %																					
=2	50 %																					
Number of Projects	% of Max Marks Allotted																					
= 3 or More	100 %																					
=2	75 %																					
=1	50 %																					
95	1	Vol-I, 3.7. Technical Bid Criteria & Evaluation	45	<p>CMMi Level 5</p>	<p>Requesting you to add CMMi Level in Technical Evaluation Scoring:-</p> <p>CMMi Level Certification (Sole Bidder or the Lead bidder of consortium or any member of the consortium)</p> <p>CMMi Level 3 : 3 points</p> <p>CMMi Level 5 : 5 points</p>	No change																
96	1	Volume 1, Section 3.7: Use Cases relevant to Agra City	48	<p>ii. Property of Interest Analytics: at least 2 use cases as defined in section 9.14, Volume 2</p> <p>iii. Person of Interest Analytics: at least 2 use cases as defined in section 9.14, Volume 2</p>	<p>Is the bidder free to choose any of the Video Analytics out of the list?</p>	No modification in the RFP document																

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97	1	Master System Integrator – Volume 1: Invitation to Bidder, 3.8. Key Personnel Criteria	49	5. ITMS & ATCC Expert § Education: Full Time MCA/M. Tech/B. Tech/B.E. from a reputed institute. § Total Experience: At least 5 years in IT sector § Should have more than 3 years experience as Traffic Engineer	Request you to confirm reputed institutes or keep the clause as "Full Time MCA/M.Tech/B.Tech/B.E"	No modification in the RFP document
98	1	Volume-1, 3.8. Key Personnel Criteria	49	1. Project Manager Education: Full Time MBA/MCA/M.Tech & B.Tech/B.E. from a reputed institute	We request you to kindly amend the clause as mentioned below Education: Full Time MBA/MCA/M.Tech/ PGDM/Equivalent & B.Tech/B.E. /Equivalent from a reputed institute	Accepted, Please check the revised corrigendum.
99	1	Volume I	49	GIS Expert a. Educational: Bachelor's Degree in Engineering/MCA b. Certification: A professional certificate in GIS mapping/ Web map programming c. Work experience in Implementation of GIS Projects (with more than 6 years of relevant experience)	We request you to kindly consider below; GIS Expert a. Educational: Bachelor's Degree in Engineering/MCA/Msc Geoinformatics b. Certification: A professional certificate in GIS mapping/ I Web map programming c. Work experience in Implementation of GIS Projects (with more than 6 years of relevant experience)	Accepted, Please check the revised corrigendum.
100	1	Volume I	49	Project Manager § Education: Full Time MBA/MCA/M.Tech & B.Tech/B.E. from a reputed institute § Total Experience: At least 15 years in IT sector. § Should have more than 8 years of experience of handling such large projects § Certification: PMP	We request you to kindly consider below; Project Manager § Education: Full Time Msc Geoinformatics/MBA/MCA/M.Tech & B.Tech/B.E. from a reputed institute § Total Experience: At least 15 years in IT sector/Geospatial related projects § Should have more than 8 years of experience of handling such large projects § Certification: PMP or relevant experience. Kindly Consider.	No modification in the RFP document
101	1	VOL I – Section 4.4	52	Warranty, Maintenance & Technology Refresh Cycle	Kindly confirm if the OEM Software support shall not restrict the number of support cases/incidents.	No modification in the RFP document. Clause is clearly mentioned in the RFP document
102	1	VOL I – Section 4.4	52	Warranty, Maintenance & Technology Refresh Cycle	Please clarify if The Software OEM shall have defined product life cycle and update policies for the all the supplied products.	No modification in the RFP document. Clause is clearly mentioned in the RFP document

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103	1	Vol-I, 4.3. Performance Bank Guarantee (PBG)	52	4.3. Performance Bank Guarantee (PBG) This Performance Bank Guarantee of 10% shall be valid only up to the completion of the period of 'Go- Live' and it will be reduced by 2.5% after all components have completed 'Go-Live' till the end of the O&M contract of 60 Months.	Should be read it as " reduced to 2.5% "	No modification in the RFP document
104	1	Vol-I Sec 7.9.1	74	Annexure 4 - Bill of Quantity	Kindly specify the Line Item for API Management Line Item in the Software Bill of Material to ensure that the Bidder provides a proper full-use enterprise API Management Product(Just as the way other software line items are specified)	No modification in the RFP document
105	1	Vol-I Sec 7.9.1	74	Annexure 4 - Bill of Quantity	Kindly specify the Line Item for ESB Line Item in the Software Bill of Material to ensure that the Bidder provides a proper full-use enterprise ESB Product (Just as the way other software line items are specified)	No modification in the RFP document
106	1	Volume 1, Section 7.9.1: Annexure 4 - Bill of Quantity	76	Video Analytics Software with License (Considering DR)	Quantity has been asked for 2 however since it is an Edge Based Analytics hence the quantity for the same has to be revised according to number of edge locations and the total number of analytics or average analytics per camera.	No modification in the RFP document
107	1	Volume 1, Section 7.9.1: Annexure 4 - Bill of Quantity	76		RFP not clear on exact quantity of the camera required to run analytics: Is it on all types of Fixed Camera, PTZ Camera, Camera for Police Vehicle and Mobile Surveillance, Body Worn Camera, ANPR Camera, RLVD Camera, No Helmet Camera	No modification in the RFP document
108	1	VOLUME 1/ ANNEXURE 4/BILL OF QUANTITY/7.9.1	76	Pedestrian Countdown Timer with Red/Green Man -Nos 424	Specs on page 30 does not mention anything about count down timer. Will require detailed specs if Pedestrian countdown timer is part of "Red-Green Pedestrian Aspect(300mm)"	No modification in the RFP document
109	1	Volume 1, Section 7.9.1: Annexure 4 - Bill of Quantity	76		There is no mention of Continuous Learning & Improvement server. Please add line item and its quantity	No modification in the RFP document
110	1	Volume 1, Section 7.9.1: Annexure 4 - Bill of Quantity	76		There is no mention of Edge/Field devices and its proposed number. Please add line item and mention required number of Edge/Field devices	No modification in the RFP document
111	1	VOLUME 1/ ANNEXURE 4/BILL OF QUANTITY/7.9.1	76	Cantilever Poles along with foundation Nos xxx Straight Pole along with foundation	Though Cantilever/Standard Pole and its foundation has been mentioned in Bill of Quantity, Typical drawing/specification of the same is not included in Volume 2	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
112	1	VOLUME 1/ ANNEXURE 4/BILL OF QUANTITY/7.9.1	76	Power Cables - lump sum	Though Power Cable is mentioned in Bill of Quantity, specification of the Power & Control Cables is not included in Volume 2	No modification in the RFP document
113	1	VOLUME 1/ ANNEXURE 4/BILL OF QUANTITY/7.9.1	76	Vehicle Countdown Timer - Nos 212	Though Vehicle Countdown timer has been mentioned in Bill of Quantity, specification of the same is not included in Volume 2. Kindly note that Vehicle as well as pedestrian Countdown Timers will not work in VA/ATCS mode of Controller Operation. It will display the balance time ONLY in FIXED TIME mode.	No modification in the RFP document
114	1	Volume 1 7.9. Proposed Bill of Material 7.9.1 Annexure 4 - Bill of Quantity F. Intelligent Traffic Management System	77	6.No Helmet Camera	It is recommended to have the No helmet analytics by the system and not by the dedicated cameras , thus requesting you to ammend the clause to No helmet analytics detection from the system	No modification in the RFP document
115	1	vol 1 F	77	Add Instant Speed Cameras	NO Instant speed is asked. We would suggest to also add few speed systems in the RFP as if required in some parts of the city and arterial roads. (may be reduce some helmet cameras as the technology is very new and has too many false detection)	No modification in the RFP document
116	1	Vol. 1, BOQ (F)	77	No Helmet Camera – No	specification is given in Vol2 – we believe it's a Analytics system	No modification in the RFP document
117	1	Volume 1 - 7.9.1 Annexure 4 - Bill of Quantity/ G. Solid Waste Management system	77	5 RFID/QR Based Reader Devices or Smart Phones Nos 1968	<p>There is no segregation as to how many RFID Readers are required and How many QR Code Reader based Smart Phones are required.</p> <p>The garbage collecting & transferring vehicles should be provided with RFID Handheld Readers mentioned in Tech Specification of B. RFID Reader in SWM on page 81 of Vol 2 of RFP. RFID Tags are the only long term viable solution for SWM as these tags keep on working even after covered with Dirt.</p> <p>The Door to door Collection could be provided with QR Code reader based Smart Phones. Please provide Specific Numbers for RFID Reader s and Smart Phones.</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
118	1	Volume 1 - 7.9.1 Annexure 4 - Bill of Quantity/ G. Solid Waste Management system	77	5 RFID/QR Based Reader Devices or Smart Phones Nos 1968	We would request you that the OEM of RFID and Barcode Scanner based Devices should have their own service station in India for quick turnaround time of devices sent for repair.	No modification in the RFP document
119	1	Volume 1 - 7.9.1 Annexure 4 - Bill of Quantity/ G. Solid Waste Management system	77	5 RFID/QR Based Reader Devices or Smart Phones Nos 1968	We would request you to go for Rugged Handheld devices with Barcode scanners which have long life and can withstand the harsh outdoor condition like Bright Sunlight, Dust and rain and survive accidental drops from hand and gives with least downtime(when the device cannot work because of being sent for repair).	No modification in the RFP document
120	1	Vol 1/ 7.9.1 Annexure 4 Bill of Quantity (G. Solid Waste Management)	78	12. GPRS/GSM based device to send real time Weigh bridge data from treatment site to ICCC	Please clarify that whether there will be any PC at treatment site. If so, then is there is no need of GPRS device. As through internet connectivity in PC the real time data can be send to ICCC	No modification in the RFP document
121	1	Vol. 1, BOQ (K)	78	Any Current or Future Integrations	There is no clarity on the future Integration as well as Current solutions details are not available. Details required for integration.	No modification in the RFP document
122	1	vol 1 - MAF	79	We hereby extend, our warranty for the hardware goods supplied by the bidder and or maintenance or support services for software products against this invitation for bid by _____ (Name of the Bidder) as per requirements and for the duration of contract as specified in this RFP. We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	Some Global companies do not have direct presence but have best products.. We request to please accept the following changes. We hereby extend our repairs, spares & maintainance or support service thru our direct service spare/service outlet or exclusive sales & support partner ...(name of parner)... for bid by(bidder), as per requirements and for the duration of contract as specified in this RFP. (OEM) We also confirms that our the offered product will not be end of life for minimum of 6 months from the date of bid submission and the support for such offered product/s will be available for minimum of 5 years from the date of award of contract.	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
123	1	vol 1 - MAF	79	<p>We hereby extend, our warranty for the hardware goods supplied by the bidder and or maintenance or support services for software products against this invitation for bid by _____ (Name of the Bidder) as per requirements and for the duration of contract as specified in this RFP. We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.</p>	<p>Some Global companies do not have direct presence but have best products.. We request to please accept the following changes. We hereby extend our repairs, spares & maintainance or support service thru our direct service spare/service outlet or exclusive sales & support partner ...(name of parner)... for bid by(bidder), as per requirements and for the duration of contract as specified in this RFP.</p> <p>(OEM) We also confirms that our the offered product will not be end of life for minimum of 6 months from the date of bid submission and the support for such offered product/s will be available for minimum of 5 years from the date of award of contract.</p>	No modification in the RFP document
124	1	Master System Integrator – Volume 1: Invitation to Bidder, 8. Annexure 5 – Formats for Submission of Commercial Bid	82	<p>Amount (in Rs.) Amount (in words)</p> <p>1. Total CAPEX price (Inclusive of all taxes, levies, duties, etc. as applicable)</p> <p>2. Total OPEX price (Inclusive of all taxes, levies, duties, etc. as applicable)</p> <p>3. Total price (1+2) (Inclusive of all taxes, levies, duties, etc. as applicable)</p>	Request you to keep Financial score calculation exclusive of taxes.	No modification in the RFP document
125	1	Volume 1 MSI-Consortium Joint & Severally Liability:	95	The Parties shall be jointly and severally responsible and bound towards the ASCL for the performance of the works in accordance with the terms and conditions of the BID document and Contract	<p>In line with similar clauses in other smart city RFPs, a consortium member may have a very limited scope in the RFP and most of the reputed companies do not take responsibilities of something which is not in their scope.</p> <p>Please change as follows: 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 as reflected in the consortium document.</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
126	1	Volume I, 11. Annexure 9 - Consortium Agreement	95	The Parties shall be jointly and severally responsible and bound towards the ASCL for the performance of the works in accordance with the terms and conditions of the BID document, and Contract.	<p>We propose ourself as ahead memeber and want to raise a concern registered by prospective partners. In general, all IT/ICT companies does not feel comfortable to share joint & several responsibility towards entire project. So there is resistance for this clause. In view of this We rquest you to please modify this as below: The Lead partner shall be jointly and severally responsible and bound and other partners shall be severally liable for their respective scope of the work towards the ASCL for the performance of the works in accordance with the terms and conditions of the BID document, and Contract.</p> <p>Also in case of consortium partners, to have committment to client we request you to take proportionate Performance Bank Guarantee from consortium partners to ensure effective implementation with accoutability by the Consortium Partners as well.</p>	No modification in the RFP document
127	1	Vol-I, 12. Annexure 10	98	<p>12. Annexure 10 - Format for Power of Attorney to Authorize Signatory</p> <p>Notes: To be executed by all the members individually. The Mode of execution of the power of attorney should be in accordance with the procedure, if any laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.</p>	<p>In this regard, we would like inform you that there is no requirement of common seal for issuing Power of Attorney to Authorize Signatory, bidder can affixed company round seal Power of Attorney format . Hence kindly delete the "common seal" and amend the clause accordingly</p>	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
128	1	Vol-I, 13. Annexure 11	99	Format for Power of Attorney for Lead bidder of Consortium Notes: To be executed by all the members individually, in case of a Consortium. The Mode of execution of the power of attorney should be in accordance with the procedure, if any laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.	In this regard, we would like inform you that there is no requirement of common seal for issuing Power of Attorney to Authorize Signatory, bidder can affixed company round seal Power of Attorney format . Hence kindly delete the "common seal" and amend the clause accordingly	No modification in the RFP document
129	1	General	-	General	In case of delay for the reasons not attributable to Bidder like Site not ready, approval or Security concerns, Partial/Final Acceptance Test can be carried out excluding those location and accordingly the corresponding payment due against completed portion shall be released- Please Confirm	No modification in the RFP document
130	1	Vol1, section 2.28	-	Additional clause	OEM for the Command Control Software Platform comprising of Pre-Integrated Visualization layer & IOT platform proposed should be deployed in at least 1 city in India operational for more than a year with 5 use cases mentioned in the tender.	No modification in the RFP document
131	1	Vol1, section 2.28	-	Additional clause	OEM for the Command Control Software Platform comprising of Pre-Integrated Visualization layer & IOT platform should be deployed in 5 cities globally with multiple smart city use cases either on Cloud or On-premise architecture.	No modification in the RFP document
132	1	Vol1, section 2.28	-	Additional clause	OEM for the Command Control Software Platform provider should be global Member of Smart Cities Council & Navigants Research Report for Smart Cities Suppliers.	No modification in the RFP document
133	1	Vol1, section 2.28	-	Additional clause	OEM for the Command Control Software Platform should comprising of CCC & IoT Platform should be either be from Single OEM OR should be pre-integrated and operational for more than a year in a City globally.	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
134	1	General	-	General	Payment to the bidder shall not be affected due to delay in readiness of third party system like Sewage Treatment Plant, Health Solution, Solid Waste management Etc., and LD shall be waived off accordingly	No modification in the RFP document
135	1	SECTION: I INSTRUCTION TO BIDDERS/ 2.2.1. SCORING MODEL Technical Evaluation & page No. 16	-	Number of Similar Projects in last 5 years as on last date of bid submission Similar is defined as: The bidder must have executed project of worth Rs. 4 Crores each at least (in last 5 years) & should include following 04 components- 1. GIS based web & mobile application development AND any three out of following four; 1. Establishment of Emergency Control Room OR CAD based Control Room or AVLS based control room 2. GIS based Vehicle Tracking System 3. Establishment of Data Center 4. Supply & commissioning of Hardware (must include Mobile Data Terminal Devices)	Request for dilution of clause as "Number of Similar Projects in last 7 years as on last date of bid submission Similar is defined as: The bidder have awarded/on-going /executed project of worth Rs. 4 Crores each at least (in last 7 years) & should include following 04 components- 1. GIS based web & mobile application development AND any three out of following four; 1. Establishment of Command & Control Room OR CAD based Control Room or AVLS based control room 2. GIS based Vehicle Tracking System 3. Establishment of Data Center 4. Supply & commissioning of Hardware (must include Mobile Data Terminal Devices)" " 4 projects: 36 marks 3 projects: 33 marks 2 projects: 30 marks"	No modification in the RFP document
136	1	VOL -I – Instruction To Bidders	-	Additional Recommendation - Implementation of Gazette Preferential market Access Policy of Government of India on the project.	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 (Copy attached). Please do confirm the implementation of the policy. 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. Ministry of commerce & Industry notification no. P-45021/2/2017-B.E.-II. b. Notification issued by DeitY vide No.33(3)/2013-IPHW dated 23Dec 2013. c. Guidelines issued by DeitY vide No.33(7)/2015-IPHW dated 16th November,2015. This PMA policy is made mandate by MoUD via	No modification in the RFP document

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					<p>notification D.O. No. K-14012/101(17)/2017-SC-III-A dated 27th April 2017. Please do confirm the implementation of the policy.</p> <p>Below Tender Documents/clarifications reference mentions PMA policy:-</p> <p>1. BBNL Tender - BBNL/MM/2016/002 issued on 16/03/2016</p> <p>2. RailTel Corporation of India Limited - Tender No. RailTel/Tender/OT/CO/Project/2012-13/211 - Clause 23 (Page-50)</p> <p>3. BSNL Indian Navy Tender - CA/CNP/NCN-EQPT/T-464/2014 DATED 31 JAN 2014 - Clause 4.1.6 (Page-6)</p> <p>4. Raipur Smart City MSI Tender (173/RSCL/ITMS-ICCC/2017-18, Dated: 21/04/2017)</p> <p>5. Bhubaneswar Smart City MSI Tender (BSCL/243/16/620 DATED 04/03/2017)</p> <p>6. RFP Reference No: SUDA/RSCCL/C4 TENDER-01/2018-01 Selection of Master System Integrator (MSI) for Implementation of Command Control and Communication Centre (C4) under Smart City Mission in Ranchi (2nd Call)</p>	

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137	1	3.7. Technical Bid Criteria & Evaluation/A - Project Experience	-	<p>Bidder (any consortium member) should have experience in executing a project for CCTV security & Surveillance for Central Government Authorities / Smart cities / safe cities / ITMS</p> <p>Number of Projects % of Max Marks Allotted 1. > =4 projects of 5 crores each 100% or 2 projects of 10 crores each</p> <p>2. =3 projects of 5 crores each or 75% 2 projects of 7.5 crores each</p> <p>3. =2 projects of 5 crores each 50%</p>	<p>We request to revise the clause as below.</p> <p>Bidder (any consortium member) should have experience in executing a project for CCTV security & Surveillance for Central Government Authorities / Smart cities / safe cities / ITMS</p> <p>Number of Projects % of Max Marks Allotted 1. > =4 projects of 5 crores each 100% or 2 projects of 10 crores each or 1 Project of 20 Crores</p> <p>2. =3 projects of 5 crores each or 75% 2 projects of 7.5 crores each or 1 Project of 15 Crores</p> <p>3. =2 projects of 5 crores each 50% or 1 Project of 10 Crores</p>	No modification in the RFP document
138	1	3.7. Technical Bid Criteria & Evaluation/A - Project Experience	-	<p>Bidder (any consortium member) should have experience in executing a city wide project that entails operationalization of COC/CCC</p> <p>Number of Projects % of Max Marks Allotted > or =4 100 % =3 75 % =2 50 %</p>	<p>We request to revise the Clause as Below.</p> <p>Bidder (any consortium member) should have experience in executing a city wide project that entails operationalization of COC/CCC</p> <p>Number of Projects % of Max Marks Allotted > or =4 100 % =3 75 % =2 50 % OR One Project of Value with 1. 10 CR to 15 CR 50% 2. 15 CR to 20 CR 75% 3. Above 20 CR 100%</p>	No modification in the RFP document

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139	1		-	2.28. Eligible Goods and Services, and OEM Criteria: Request for addition: OEM of industrial Grade Switches Installation Base- Should have supplied to Indian Government PSU/department minimum 1000 Industrial Grade Switches into smart city/ safe city/City Surveillance Project. OEM submit supporting document	Would request you to consider proven product and technology as all these switches will be deployed in to harsh outdoor environment and ensure connectivity of smart city end devices like CCTV cameras, Wi-Fi AP's, Sensors, and many more	No modification in the RFP document
140	1	Vol-I, 2.16. Deviations and Exclusions	27 & 61	Deviations and Exclusions Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the RFP. The Bidder shall submit a No Deviation Certificate as per the format mentioned in Section 6.5. The bids with deviation(s) are liable for rejection.	Requesting you kindly consider list of deviation if any against Functional Requirements Specification, Hardware Specification and Technical Requirements Specification alongwith response.	No modification in the RFP document
141	1	Volume I - 3.7 Technical Marking Matrix all TQ	37		for the on going projects we request to accept Client / Self Certificate for ongoing or completed project. Or CA certificate for 80% CAPEX completed for ongoing project.	No modification in the RFP document

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142	1			<p>New Clause</p> <p>A score of 5 marks may be considered to be assigned to this clause drawing it from clause A. 2 - BIDDERS COMPETENCE EXECUTING – CCTV Security & Surveillance/ ITMS.</p>	<p>"Integration Capabilities is central to ascertain the interoperability, robustness and scalability of a CCC Platform. Considering the CCC integration scope of the Agra Smart City Requirements, it is essential that Command and Control Centre Platform seamlessly integrates with multiple 3rd party smart elements/systems. The clause may hence read as:</p> <p>The sole bidder or consortium (any member of consortium) should have experience in executing a single project operationalizing Command and Control/Communications Centre with the following number of smart elements / Integrations with CCC in India. The project should have gone live.</p> <ol style="list-style-type: none"> 1. Video management & video analytics 2. Adaptive traffic signalling 3 Intelligent bus transport 4. Smart lighting 5. Environmental sensors 6. Solid waste management – smart bins 7. Public address system 8. Variable messaging displays 9. Emergency call box/Emergency response systems 10 SCADA (Power/Water/Gas) 11 ERP/e-governance 12 GPS Vehicle tracking 13 Smart pole - Wi-fi 14 ANPR (Automatic number plate recognition) 15 RLVD (Red light violation detection) <p>Documentary Proof: Client Completion stating the integrations and copy of Work Order.</p> <p>10 Integrations- 5 Marks 8 Integrations - 4 Marks 6 Integrations - 3 Marks 4 Integrations- 2 Marks</p>	No modification in the RFP document

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143	1			<p>New Clause (a score of 5 marks may be considered to be assigned against this clause drawing it from clause A.2 " BIDDERS COMPETENCE EXECUTING – CCTV Security & Surveillance/ ITM"</p>	<p>"Integration Capabilities is central to ascertain the interoperability, robustness and scalability of a CCC Platform. Considering the CCC integration scope of the Agra Smart City Requirements, it is essential that Command and Control Centre Platform seamlessly integrates with mutiple 3rd party smart elements/systems. The clause may hence read as:</p> <p>The sole bidder or consortium (any member of consortium) should have experience in executing a single project operationalizing Command and Control/Communications Centre with the following number of smart elements / Integrations with CCC in India. The project should have gone live.</p> <ol style="list-style-type: none"> 1. Video management & video analytics 2. Adaptive traffic signalling 3 Intelligent bus transport 4. Smart lighting 5. Environmental sensors 6. Solid waste management – smart bins 7. Public address system 8. Variable messaging displays 9. Emergency call box/Emergency response systems 10 SCADA (Power/Water/Gas) 11 ERP/e-governance 12 GPS Vehicle tracking 13 Smart pole - Wi-fi 14 ANPR (Automatic number plate recognition) 15 RLVD (Red light violation detection) <p>Documentary Proof: Client Completion stating the integrations and copy of Work Order.</p> <p>10 Integrations- 5 Marks 8 Integrations - 4 Marks 6 Integrations - 3 Marks 4 Integrations- 2 Marks</p>	No modification in the RFP document

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144	1	Vol-I,3.5. Pre-Qualification Criteria	43	<p>Sole Bidder or consortium should have experience in implementing 4 projects (each from different sector mentioned below) during last 7 years:</p> <ul style="list-style-type: none"> • Adaptive Traffic management system • Intelligent Traffic Management system • Variable Messaging System/Public Address System/ Environmental Sensor / Emergency/ Panic Box System • ICT based Solid Waste Management • CCTV based Surveillance System • City Operation Command Centre / Command and Control Centre 	<p>In this regard, we would like to inform you that City base Operation Command Centre / Command and Control Centre projects implemented by very limited bidder. Hence requesting you kindly delete "City" and amend the clause accordingly.</p>	<p>No change - All options are considered where Non City Command Center is also included</p>
145	1	Volume 1/ Instructions for Online Bid Submission, point 14	13	<p>Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and ordinarily it shall be in PDF/xls/rar/jpg/dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format.</p>	<p>Requesting ASCL to kindly clarify the following points:</p> <ol style="list-style-type: none"> 1. What will be max no. of documents that can be uploaded in each section. 2. What will the max. uploading limit in MB for each section. 	<p>No change and Clause is clear</p>
146	1	Volume 1 Clause 3.7	44	<p>Bidder competence executing solid waste management- Bidder should have experience of an execution of ICT based waste collection and monitoring system/ ICT Based Solid waste management system in Municipalities in India and total worth of projects should be a minimum value of 1 Cr</p>	<p>Requesting you to please clarify that the value of all projects should be 1 cr or each project should have value of more than 1 cr, as in swm processes if small municipalities will not have such large scale ICT projects so requesting you to please allow the projects for which the total value of all projects should be more than 1 cr</p>	<p>No change and Clause is clear</p>
147	1	Volume I: Invitation to Bidder 7.9.1 Annexure 4 - Bill of Quantity	77	<p>F. Intelligent Traffic Management System</p> <p>3 ANPR Camera Nos 213 4 RLVD Camera Nos 110</p>	<p>Do we also need to record and manage the ITSM cameras (ANPR and RLVD) on the proposed Video Management system as per point "E. City surveillance System"?</p> <p>ANPR Cameras - 213 RLVD Cameras - 110</p> <p>Please confirm.</p>	<p>No change and Clause is clear</p>

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148	1	Volume I: Invitation to Bidder 7.9.1 Annexure 4 - Bill of Quantity	77	F. Intelligent Traffic Management System 1 Fixed Box Cameras Nos 56 2 PTZ Camera Nos 77	Fixed cameras 56 + PTZ Cameras 77 = 133 Cameras included in "F. Intelligent Management System" will also be recorded and management by the proposed Video Management system as per point "E. City surveillance System"? We understand that these are "General Surveillance Cameras or not if yes VMS license to be provisioned Pls confirm.	No change and Clause is clear
149	1	Volume 1 / 1 / 1.2 1.2. Need for Present Assignment & Brief Scope of Work	16	City and Enterprise GIS Solution - The broad objective of the work is to develop a comprehensive Instigated Enterprise GIS Application for Corporation for planning, management and governance in context of entire functioning of the organization.	Please clarify whether any existing GIS solution is available with the corporation.	No GIS solution is available in the city. Although available data shall be provided to the bidder.
150	1	Volume 1 / 1 / 1.2 1.2. Need for Present Assignment & Brief Scope of Work	15	City Communication Network - MSI shall use communication (OFC) network of a Service Provider in Agra for the smart city project	Requesting clarification whether dark fiber shall be made available by ASCL.	No. The scope of work in Volume 2 clearly defines the Network Requirement
151	1	Volume I	58	6.3. Company profile 6. Service Tax number 7. VAT number	We understand that Goods and Service Tax will be applicable in place of Service and VAT Tax. Kindly confirm.	Correct. Please check corrigendum for revised clause.
152	1	Volume 1, Section 7.9.1: Annexure 4 - Bill of Quantity	76		No mention of Face Recognition System in Bill of Quantity.	Please check the revised attachment for Bill of Material
153	1	Volume 1 - 7.9.1 Annexure 4 - Bill of Quantity/ D. Intelligent and Adaptive Traffic Signal	77	Handheld e-Challan System Software mentioned in Volume 2	The Handheld Device based e-Challan System would also require Desktop PCs and Laser jet Printers at Traffic Thana for MSI report Printing and Cash Fine Accounting. Has a provision for these made in Bill of Material. Each Traffic Thana would at Least require Two Desktop PCs and Printers with internet Connectivity.	Please check the revised attachment for Bill of Material
154	1	Volume 1 - 7.9.1 Annexure 4 - Bill of Quantity/ D. Intelligent and Adaptive Traffic Signal	77	Handheld e-Challan System Software mentioned in Volume 2	The Handheld Device based e-Challan System would also require Servers and Backup Server for Hosting the e-Challan Application. Has a provision for these made in Bill of Material.	Please check the revised attachment for Bill of Material
155	1	Volume 1 - 7.9.1 Annexure 4 - Bill of Quantity/ D. Intelligent and Adaptive Traffic Signal	77	e-Challan Handheld Device Specifications mentioned in Volume 2	The required number of Handheld Devices have not been mentioned in the Bill of Material. For a City like Agra there should be at least 200 Handheld Devices. For reference Delhi has 1200 Devices.	Please check the revised attachment for Bill of Material

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156	1	Volume 1 - 7.9.1 Annexure 4 - Bill of Quantity/ D. Intelligent and Adaptive Traffic Signal	77	Handheld e-Challan System Software mentioned in Volume 2	The Volume 2 of RFP gives detailed account of Functional Requirements of Handheld Device based e-Challan System and Functional Requirement of Handheld Device Application. However the e-Challan System Software Application and the Device Application are not mentioned in the Bill of Material.	Please check the revised attachment for Bill of Material
157	1	Vol 1/ 7.9.1 Annexure 4 Bill of Quantity (G. Solid Waste Management)	78	9. Bin Volume Sensor - Requirement -per bin	Please specify the bin volume sensor specification and the no of bins.	Please check the revised attachment for Bill of Material
158	1	Volume 1 7.9. Proposed Bill of Material 7.9.1 Annexure 4 - Bill of Quantity	81	To Be Added	Requesting to add the quantity of Access Control in the BOQ, as it is not mentioned in the BOQ.	No Change
159	1	Volume 1 7.9. Proposed Bill of Material 7.9.1 Annexure 4 - Bill of Quantity	81	To Be Added	Requesting to add the quantity Joystick in the BOQ, as it is not mentioned in the BOQ.	No Change
160	1	Volume 1 7.9. Proposed Bill of Material 7.9.1 Annexure 4 - Bill of Quantity	81	To Be Added	Requesting to add the quantity of Pan , Tilt and Zoom CCTV Cameras for SWM in the BOQ, as it is not mentioned in the BOQ.	No Change
161	1	Volume 1 7.9. Proposed Bill of Material 7.9.1 Annexure 4 - Bill of Quantity	81	To Be Added	Requesting to add the quantity of 360 degree Panaromic Camera with PTZ in the BOQ, as it is not mentioned in the BOQ.	No Change

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162	1	Volume 1 7.9. Proposed Bill of Material 7.9.1 Annexure 4 - Bill of Quantity	81	To Be Added	Requesting to add the quantity of Emergency Call Box Hardware in the BOQ, as it is not mentioned in the BOQ.	Please check the revised attachment for Bill of Material
163	1	General	-	General	Water, Space, Power will be arranged by ASCL at site, please confirm.	Integrated Command and Control Space shall be provided by ASCL and Space for Police related Control Room and Data Storage Facility shall be provided by City Police. MSI shall directly interact with electricity board for provision of mains power supply at all desired locations for solution. MSI shall be responsible for all payments, to the electricity board directly, till commissioning of the project. ASCL will bear electricity charges post commissioning and MSI to pay to electricity board directly and will be reimbursed the amount submitted after verification in next billing cycle.
164	1	Volume 1/3.5 Pre-qualification Criteria/Point 6	42	Copies of Work Order, Work Completion certificate by Client Entity (on Client Entity letterhead) and other relevant documents clearly highlighting the Scope of Work, Bill of Material and Value of Contract.	Request ASCL to allow "Global experience in the name of Group Company from Same Ultimate Parent". Given NEC's global organizational structure, the Work order certificates would be in the name of NEC's group companies which share the same ultimate parent, NEC Corporation Japan	Wholly owned Subsidiary or Parent are allowed.
165	1	Volume 1	20	Clause 2.2, serial no c: Experience of OEM companies can be used for Bidder project experience in one component only	We understand for one component bidder can use OEM experience for qualifying in the PQ and TQ criteria. As a proof of document bidder can use the OEM's completion certificate/WO/PO. Please confirm.	Yes and there is no change in given clause
166	1	Vol 1/ Section 7 Technical Bid Check-List	64	Manufacturers'/Producers' Authorization Form Anti-Collusion certificate	We understand Anti-Collusion certificate needs to be submitted by Lead Bidder only as per format in Section 7.11. Please confirm.	Yes and there is no change in given clause

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167	1	Volume 1	77	D. Intelligent and Adaptive Traffic Signal Power Cables -Indicative Quantity -Per Junction Cantilever Poles along with foundation- Indicative Quantity -Per Junction	As per BOM (Annexure-4), Indicative quantity is as per junctions .We understand that Bidder should consider for total 62 junctions total price .Kindly confirm	Yes and there is no change in given clause
168	1	Vol1, Section - 7.9.1	77	Annexure 4 - Bill of Quantity I) GIS	We believe there is only one GIS section for bill of quantity at page number 77. we find a duplication of information at page number 81, where the RfP document is again asking for the Bill of quantity for GIS. Please clarify?	Yes and there is no change in given clause
169	1	Volume I : 7.9.1 Annexure 4 - Bill of Quantity	78	Bin Volume Sensors	Whether we need to provision for all the 444 Nos of communitiy bins. Please confirm	Yes and there is no change in given clause
170	2	Volume_2: Scope of Work 9.14. Technical Specifications Video Content Analytics VAS.16.	280	Features: 7) Attribute Based Search: Search initiators: c. When initiating a query by VMS recorded content, the operator shall be able to initiate the query for a specific VMS video channel and time range in order to get results of extracted individual's thumbnails from the image database that was generated in real-time by the analytics application.	When initiating a query by VMS recorded content, the operator shall be able to initiate the query for a specific VMS video channel and time range in order to get results of extracted individual's thumbnails from the image database that was generated in real-time by the analytics application is not recommended in the Video Content Analytics, thus, requesting to remove the clause.	No modification in the RFP requirement
171	2	9.11.10. VMS Alarm Handling	262	5) Alarm/Incident Workflow. I. User shall have the ability to define a workflow for each event. i. User shall have the ability to define a procedure containing a list of tasks instructing the operator what actions to take when an alarm occurs. Other users shall be able to see the status of each task for a specific event on the respective workstation. ii. The workflow shall be adaptive to the user's selections and change the remaining tasks in the workflow based on conditional tasks that present multiple options to proceed. iii. The workflow shall support simple tasks that can be managed (e.g. completed) manually, as well as	To be removed: "Since this is a part of Command and control scope, It will be achieved by Command and control software. Same feature asked in VMS is the duplication and will increase the cost for client."	No modification in the RFP requirement.

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				automatic tasks that execute an automatic action that performs a system command and/or a sensor command. iv. Automatic actions executed as automatic tasks in a workflow procedure shall support creating, closing and changing incidents. v. User shall have the ability to change the state of each task to: Suspend, In Progress, Complete, Cancel and Fail. II. User shall have the ability to acknowledge, reject or reset each alarm – after the alarm has been acknowledged all authorized users shall see the alarm status change on their respective workstations. III. The system administrator shall have the ability to audit user alarm actions (acknowledge /reject/reset). IV. User shall be able to comment an alarm.		
172	2	Volume II, 2.5	28	ATCS APPLICATION 4. The application support interfacing with a commonly used microscopic traffic simulation software for pre and post implementation analysis and study of the proposed ATCS control strategy.	We suggest the following change: 4. The application support shall interface with a commonly used microscopic traffic simulation software that can be used by traffic engineers to evaluate what-if scenarios and plan for an ATCS control strategy that can best handle the situation.	No modification in the RFP requirement
173	2	Volume_2: Scope of Work 9.11.2. VMS General.	255	3) VMS shall support tamper detection for all cameras to warn of accidental or deliberate acts that disable the surveillance capability	Tampering detection should be from the edge device in order to have efficient performance, thus, requesting to amend the clause to VMS shall support the edge based tamper detection to warn of accidental or deliberate acts that disable the surveillance capability	Both solutions Edge Based and VMS based are acceptable. MSI to choose
174	2	VOLUME 2/ SECTION 2.5/ TRAFFIC DETECTORS - CLAUSE 1 & 6	27	For major roads: Non-intrusive video based traffic detectors for detecting traffic demand on major road approaches to junctions For minor roads: Non-intrusive video based traffic detectors or microwave radar based traffic detectors for detecting traffic demand on minor road approaches to junctions	Traffic Controller can either be configured for Video based Virtual loop type traffic detectors OR microwave radar based traffic detectors. It can not have mixed inputs. Please allow the bidders either to use video based traffic detectors or microwave based traffic detectors for both - major & minor approaches	No modification in the RFP requirement

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175	2			We suggest Vehcile detector following specs.	Sensor should be single sensor to do Stop Line and Advance detection. The sensor should be able to count, classify (3classes), gap detection, speed etc in rain, fog all weather conditions and should not require cleaning. It should have possibility to detect atleast 120 vehcile simultaneously. It should cover minimum 175 meters and 4 lanes. The sensor should be 4D HD. justification: Traffic in india is always bigger than 150 meters the sensor should be a High Definition multi-lane, multi-object tracking traffic Radar featuring 4D/HD capabilities.	Current specifications are as per city condition. MSI shall conduct complete survey of city and can propose enhance technology to ASCL which shall be considered after approval.
176	2	VOLUME 2/ SECTION 2.5 / TRAFFIC SIGNAL CONTROLLER CLAUSE 1	27	The controller should support the required number of phases and stage for 3-way, 4-way and 5-way junctions for operation during different times of the day and day of the week and for special day types	Details such as Input Voltage, Lamp Output Voltage, Number of Lamp drive Outputs(24/32/48), Police Panel & GPS Interface etc not mentioned	MSI to design and finalize the architecture after detail survey and provide best solutions as per city conditions
177	2	Vol2, section 9.8	242	MSI should ensure and support scenario reconstruction and analytics capabilities with event timelines. The solution should support event logs including operator's onscreen activities, voice & video events etc, for further analysis, training and similar activities. This can be in an integrated manner or through a standalone solution integrated with central platform.	Please delete this clause as Scenerio reconstruction feature is with specific OEM only. This will help to participate maximum OEMs.	No modification in the RFP requirement

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178	2	AI and edge analytics use cases	264	New add on item-	<p>Pg 264 of volume 1 talks about AI and edge analytics use cases like face recognition, threat detection , person tracking etc. which would require real time analytics and therefore ruggedized edge compute would be required at distributed locations outside the primary DC that is closer to surveillance areas. This will reduce lag and have less network bandwidth consumption at the end of the day . This is crucial part of the overall scope of work and is standard model being deployed across smart cities around the globe, Hence kindly add below minimum specification as mentioned -</p> <p>Edge Analytics min specification: Deliver 5.5 teraflops of FP16 performance or better Support 3G/4G connectivity options using USB dongle kit Have minimum 100Mb/1GbE management network link Support for GPU accelerator cards Support 1GbE (via RJ45) or 10GbE (SFP+) Support min. 4 USB 2.0/3.0 ports Have operating temperature range of 0 degrees to 55 degrees to withstand outdoor operating environment as per city conditions</p>	No Change. MSI to decide the BoM for hardware to cater the AI and Edge Analytic needs
179	2	Volume_2: Scope of Work 9.11.2. VMS General.	255	<p>V. System should allow to specify the following search criteria: i. Motion in the zone, user-defined with any polyline ii. Detection of crossing a virtual line in a user-defined direction iii. Loitering in an area iv. Motion from one area to another.</p> <p>8) Video management software shall incorporate online video analytics. It shall include the following video analytics detection tools: I. Loitering detection II. Improper Parking III. Camera Tampering IV. Abandoned objects detection</p>	<p>A. Loitering in an areas can be performed by intrusion detection thus, requesting to ammend the clause to System should allow to specify the following search criteria: i. Motion in the zone, user-defined with any polyline ii. Detection of crossing a virtual line in a user-defined direction iii. Intrusion Detection iv.Motion from one area to another.</p> <p>B. Loitering and Improper Parking are brand centric, thus, requesting to remove the clause. Video management software shall incorporate online video analytics. It shall include the following video analytics detection tools:</p>	No modification in the RFP requirement

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					I. Camera Tampering II. Abandoned objects detection	
180	2	VMS.0 32 Management	277	VMS shall operate in multicast / unicast / bandwidth throttling protocol to minimize the network bandwidth	Kindly consider: VMS shall operate in multicast / unicast / Thru cast/bandwidth throttling protocol to minimize the network bandwidth	No modification in the RFP requirement
181	2	VMS.0 22 General Requirements	277	VMS shall offer possibility to integrate external Video Analytics systems.	Kindly consider: The VCA should run in the same Recorder as that of the VMS.	MSI may choose such an option.
182	2	VMS.035 Monitoring Module	278	The Monitoring module shall provide a real-time overview of alarm status or technical problems while allowing for immediate visual verification and troubleshooting.	Kindly consider: The Monitoring module shall provide a real-time overview of alarm status or technical problems while allowing for immediate visual verification and troubleshooting. Also The Software should have a "help" option where quick offline support and documentation of the operation of the software shall be available for the operator for any instant help or support.	No modification in the RFP requirement
183	2	VAS.011 General Requirements	279	System shall have Automated PTZ camera control/preset for zooming in on interesting events like motion Detection etc.	Kindly consider: System shall have Automated PTZ camera control/preset for zooming in on interesting events like motion Detection and Ability to Define a Virtual camera that focuses in the part of camera view be it live or playback. Atleast 30 such Virtual camera can be made from one single camera view.	No modification in the RFP requirement
184	2	VAS.014 General Requirements	280	System shall have a report generation functionality to provide inputs on various instances of events triggered in the system	Kindly consider: System shall have a report generation functionality e.g graphical format,reporting as book mark,Audit trail , report of integrated recorder separately to provide inputs on various instances of events triggered in the system	No modification in the RFP requirement
185	2	VAS. 004 General Requirements	279	System shall allow configuration of applicable rules and manage them.	Kindly consider: System shall allow configuration of applicable rules like 3d calibration where 3D calibration objects are matched to the actual camera viewing scene. The calibrating parameters include cameras height, cameras viewing angle and camera tilt angle and manage them.	No modification in the RFP requirement

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186	2	VMS.0 - 50 Management	279	Security Platform shall have strong security mechanism such as the use of advance encryption, digital certificates and claims-based authentication to ensure that only authorized personnel have access to critical information, prevent manin-the-middle attacks, and that the data is kept private.	Kindly consider: Security Platform shall have strong security mechanism such as the use of advance encryption of 256 bit AES and claims-based authentication to ensure that only authorized personnel have access to critical information, prevent manin-the-middle attacks, and that the data is kept private.	No modification in the RFP requirement
187	2	VAS.017 General Requirements	281	Motion Detection component that automatically detects moving objects in the field of view of a camera & is capable of filtering movement in configurable directions & movement due to camera motion (e.g. from wind).	Kindly consider: Motion Detection should be of three types - Comparative , Adaptive and Hermeneutic for adversed conditions which automatically detects moving objects in the field of view of a camera & is capable of filtering movement in configurable directions & movement due to camera motion and 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.	No modification in the RFP requirement
188	2	9.11.6. VMS User Hierarchy	259	IV. VMS shall have option for individual channel setup of pre/post-alarm recording for defined interval (e.g. up to 10 minutes pre-alarm and 30 min post-alarm recording)	Kindly consider: IV. VMS shall have option for individual channel setup of pre/post-alarm recording for defined interval (e.g. up to 60 minutes pre-alarm and 60 min post-alarm recording)	No modification in the RFP requirement
189	2	1.6. Project Scope of Work	16	Agra Smart City Company Ltd intends to select a Master System Integrator (MSI) for city of Agra by following competitive bidding process to design, develop, implement and maintain the Smart City System for a period of five years after Go Live date on turnkey basis. MSI will develop a Centralized Command & Control Centre which shall be managed by Police for City Surveillance and Law Enforcement through CCTV Cameras, Public Awareness, Proactive Monitoring for Catastrophic Situation and Manage the VIP and Emergency Movement along (CCC) and City for managing various utilities like Automated Traffic Signal, Solid Waste Management, Public Transport Movement etc. as	Kindly consider: As Agra is smart city and looking for unified command and control center, we suggest to integrate the existing security and surveillance system of Agra Railways stations so everything is in single platform and managed easily.	Not part of existing scope since Railway stations are managed by independent authority. In future if need arises than Integration shall be considered.

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				Integrated Smart City System for Agra.		
190	2	VMS.0 29 Management	277	Access rights and privileges shall consist in but not limited to a. Visibility of devices, live view, playback, AVI/ MP4 export, JPEG export, database export, sequences, smart search, input status, output control.	Kindly consider: Access rights and privileges shall consist in but not limited to a. Visibility of devices, live view, playback, AVI/ MP4 export, SEF (Secure Export Format) with Password key upto 20 Characters , JPEG export, database export, sequences, smart search, input status, output control, Advanced activity/Event Search detection of least 50 instances in a given period of time.	No modification in the RFP requirement
191	2	9.11.3. VMS GUI Capabilities	256	6) All user interfaces shall support English Language and shall confirm to standard Windows protocols and practices and allow the control of all functions via a simple easy to use interface.	Kindly consider: 6) All user interfaces shall support English Language and shall confirm to standard Windows protocols and practices and allow the control of all functions via a simple easy to use interface. In additional to this the VMS OEM shall be Microsoft Gold Certified Partner for better server and software compatibility.	No modification in the RFP requirement
192	2	Volume_2: Scope of Work 9.14. Technical Specifications Video Management System – VMS VMS.026	277	Distributed Architecture Simultaneous quantity of operators per location shall not be limited	It is suggested to have 125 simultaneous quantity of operators in order to have efficient performance, thus, requesting to ammend the clause to: Simultaneous quantity of operators per location shall be ≤125	No modification in the RFP requirement
193	2	Volume_2: Scope of Work 9.14. Technical Specifications Video Management System – VMS VMS.048	278	Management No of operators shall not be software licenses dependent. In case of emergency, threats, natural catastrophe the control room shall be able to reconfigure the VMS by adding more operators without any Contractor's intervention.	In video Management system , number of operators is software dependent, thus, requesting to remove the clause.	No modification in the RFP requirement
194	2	Volume_2: Scope of Work 9.14. Edge Analytics and Artificial Intelligence with Continous Learning	264	Property and Person of Interest	Help to remove Object classification, No Seat Belt, Smoking in Car while driving, Use of Mobile Phones during driving, as it is not recommended. Help to remove Hair identification: Loitering detection, Long or short hair, Person waving (gesture recognition), as this is not recommended.	No modification in the RFP requirement

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195	2	Volume II, 2.6	30	5) ITE products shall be Intertek/ETL/EN/Equivalent certified	Can the product be compliant instead of being certified?	No Change
196	2	Volume II, 2.5	26	General	As there are a lot of vendors that use proprietary communication protocols, it is advised that the city specify open industry standards like UG405 or NTCIP. This would avoid costly vendor tie-ins.	No modification in the RFP requirement
197	2	vol -II	250	9.10.8. Analytics Engine	1) Solution should be flexible to integrate with other city and government software applications. Kindly elaborate on other City and Govt. Software applications	SDK integration with the existing /future Smart City applications should be supported.
198	2	Vol.2/ 9.14 Technical Specs.	274	Wall management software shall be having interoperability with Video management system.	Video wall software should be based on Open Source Python-Jango framework	No modification in the RFP requirement
199	2	Volume 1 Video wall Management Software	276	Not mentioned - To add	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 to be facilitated through Video wall software	Additional features to the existing requirement shall be considered
200	2	Volume II, 2.5	28	ATCS APPLICATION 6. The application should be capable of operating in the following four modes:	All smart cities are asking for advanced features like network state estimation and prediction models to strategically manage traffic. Therefore, we request you to add the following: (v) Fully adaptive mode - strategic: Based on simulation of the predicted state of network, if any significant changes in traffic flow parameters are observed, the system shall raise alerts and automatically set pre-defined plans that best handle the situation at hand. It take over control from the tactical mode in this case.	MSI can provide additional software modules to ASCL which benefits the Monitoring and Controlling of ATCS Applications and Signal for governance in city
201	2	Volume 1 Video wall Management Software	272	Not mentioned - To add	Request you to add Pixel Clock 300 Mhz or higher so that image being displayed on Video wall is flickering free	Additional features to the existing requirement shall be considered
202	2	Vol.2/ 9.14 Technical Specs.	273	Light source - LED 6X redundancy	Redundant Laser Banks and diodes	No Modifications in the RFP document
203	2	Vol.2/ 9.14 Technical Specs.	274	Display controller - Controller to be able to control maximum number of inputs	Controller should have 30 DVI/HDMI inputs	No Modifications in the RFP document
204	2	Vol.2/ 9.14 Technical Specs.	273	Brightness - 240 Cd/m ² or better	800 Cd/m ² or better	Accepted. Please check the revised corrigendum
205	2	Vol.2/ 9.14 Technical Specs.	272	26 Cubes (LED Based projection) -10X2 for Command Control Centre -3X2 for	36 Cubes (Laser Based projection) -10X3 for Command Control Centre -3X2 for Police Control	No Change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				Police Control Room	Room	
206	2	VOLUME 2/SECTION 3.17/ TECHNICAL FUNCTION/VARIABLE MESSAGE SIGN BOARD VaMS S/No VaMS 022	56	Image Processor for Each LED Wall Display : Signal Input – DVI; Signal Output - RJ - 45	Since the VaMS is used to guide road traffic user, the display output is either TEXT or PICTOGRAMS. Any Animation or Video based message shall distract the road user and may lead to fatal accidents. Considering TEXT/PICTOGRAM Input requirements, DVI input needs to be removed	No Modifications in the RFP document
207	2	VOL II I. Variable Message Sign Board – VaMS	34	Variable Message Signboard (VaMS) shall be installed at identified strategic locations. The VaMS shall communicate information & guidance about traffic, diversions, etc. to the citizens / public on the road.	Variable Message Signboard (VaMS) shall be installed at identified strategic locations. The VaMS shall communicate information & guidance about traffic congestion, journey time, best route, diversions, etc. to the citizens / public on the road. For redundancy the system should be capable of displaying information in real time and in a automated manner without manual intervention to take care of failures by sourcing data from cloud.	No Modifications in the RFP document. For details to be displayed on VaMS, it will be dynamic and shall be communicated by ASCL
208	2	Technical Specs		Safety Standards(Mandatory to be submitted along with the bid)	UL Listed for Compliance to UL Standard For Safety : UL 60950-1 & CAN/CSA C22.2 No. 60950-1-07- Information Technology Equipment- Safety-Part 1: General Requirements. Copy of the certificate to be submitted with the bid.	No Modifications in the RFP document
209	2	VOL II I. Variable Message Sign Board – VaMS	56	The signboard unit shall be able to communicate with central command centre computer using GSM data channel (GPRS) / Ethernet will be used to send online messages.	The signboard unit shall be able to communicate with central command centre computer using GSM data channel (GPRS) / Ethernet will be used to send online messages. System should have secure access mechanism for validation of authorised personnel. It should have a high level of data encryption (128 bit or more) to avoid any hacking into the software.	Since security of such public displays and relevant contents are critical it is accepted to have necessary encryption
210	2	Volume - II : 3.17. Technical Functions, O - Pole for Cameras - Junction Box	61	All the junction boxes shall be out door type with IP65 protection from rain, water. Provision for theft prevention. (Expected outdoor temperature 500C). Side panels in double walled construction with air gap of minimum 20 mm between two walls with PU foamed(Gasketing) for IP 55 protection. Painting: Electro- phoretic dip coat priming to 20 Microns and then powder coated to RAL 7035 textured Pure Polyester (PP) to 80 to 120	Though we can supply rack with IP65 but please be noted that after installation of FAN for ventilation which is must, the rack will no longer remain IP65. Request you to please modify accordingly. No OEM can comply with IP65. Therefore please allow IP55 which is widely used in CCTV outdoor application across OEM.	No Change

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				Microns. powder coated with surface finishing nano coating, for the best possible surface protection and corrosion resistance.		
211	2	Vol.2/ 3.17 Technical Specs.	56	Display Protection - The front of VaMS display board should be weather resistant IP 65 rated w.r.t various climatic conditions	The front of VaMS display board should be weather resistant IP 65 rated and rear should be IP 54	Cabinet IP 55 and Front Side IP 65
212	2	Vol.2/ 3.17 Technical Specs.	57	Software for Layout Management -To be provided by respective OEM. LED Tiles, Image Processor & Software should be from same OEM to ensure compatibility and smooth after sale service support.	Software should be provided for managing the screen as well as the layouts on the screen	No Modifications in the RFP document
213	2	VOL II I. Variable Message Sign Board – VaMS	56	Pixel Density : Minimum 3096 pixel / m2	Pixel Density : Minimum 10000 pixel / m2	Please check the corrigendum for revised specifications Pixel Density : Minimum 10000 pixel/m2
214	2	Vol.2/ 3.17 Technical Specs.	57	Power Requirements - 230V AC + 15%, 50 Hz single phase power supply (Automatically re-start in the event of an electricity failure)	Necessary Inverter which can simultaneously provide AC backup power for 230 V load, 48 V DC for DC loads and battery charging. Galvanic isolation between AC input/output should be secured.	MSI can decide with OEM to best fit the power requirement
215	2	Vol.2/ 3.17 Technical Specs.	55	Refresh Rate - Minimum 800 Hz	Minimum 5500 Hz	Please check the corrigendum for revised specifications Minimum 1900 Hz
216	2	For all Cameras - Fixed Box Surveillance Camera (HD) / PTZ (HD) / IP Dome Camera / Multi-Sensor	52	Tilt Range : Manual/programmable; speed: 300°/sec; angle :0-180° or proportional speed needs to be provided	The Standard tilt speed which is available with major OEM's is Tilt: -20° ~ 90°, auto flip 180°, Manual Tilt speed: Tilt: 0.1° ~120° /s, Tilt preset speed : 200° /s. So requested to amend the same.	Tilt Preset speed : Minimum 180 degree / sec Pan: 240° endless/continuous
217	2	For all Cameras - Fixed Box Surveillance Camera (HD) / PTZ (HD) / IP Dome Camera	51	Enclosure IP 66	Please ask for Inbuilt IR Housing of 100mtr IR distance with IP66 & IK10 so that we can have clear image during night time and save cost for external Illuminator also.	Include IP66 & IK10
218	2	Fixed Box Surveillance Camera (HD) - Vol 2	51	Local Storage 32 GB SD Card or higher	Please ask for 128GB SD card so that we can have storage for max no. of days	No modifications in the RFP document
219	2	Vol.2/ 3.17 Technical Specs.	56	Communications - Each unit shall be provided with a unique identification number and shall communicate with the designated central command centre system and a local device loaded with relevant	It should be possible to address each VaMS separately or as a group	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				software		
220	2	VOL II I. Variable Message Sign Board – VaMS	137	High Sensitive Smoke Detectors, Fire Suppression System	<p>High Sensitive Smoke Detectors, Fire Suppression System. The fire suppression system shall include and not be limited to gas release control panel, UL/FM/VDS listed and PESO approved seamless cylinders, discharge valve (with solenoid and pneumatic actuator) as the case may be, discharge pipe, check valve and all other accessories required to make a complete operation system meeting applicable requirements of NFPA 2001 (2012 edition) standards and installed in compliance with all applicable requirements of the local codes and standards.</p> <p>The system shall be properly filled and supplied by a UL/FM/VDS listed OEM (Original Equipment Manufacturer) and PESO approved filling plant. Generally the key components of the system shall be UL listed. Fire Suppressant shall -</p> <p>I. comply with NFPA 2001 (2012 edition) standard</p> <p>II. have the approval from US EPA (Environmental Protection Agency) for use as a total flooding fire extinguishing for the protection of occupied space:</p> <p>III. Underwriters' Laboratories Inc. (UL, USA) component listing for the gaseous agent.</p> <p>IV. Must have zero ozone depletion potential (ODP)</p> <p>V. Must have a minimal life span in atmosphere, with atmospheric life time of less than 5 days</p> <p>VI. Be efficient, effective and does not require excess space and high pressure for storage.</p> <p>VII. Must have Environmental warranty for 20 years</p>	Accepted. Please check the Corrigendum document for revised specifications
221	2	VOL II I. Variable Message Sign Board – VaMS	55	Electronic-High Luminosity wide viewing angle oval LEDs (Only Nichia LED) for outdoor ambient light shall be used.	Electronic-High Luminosity wide viewing angle oval LEDs for outdoor ambient light shall be used.	Accepted Please check the Corrigendum document for revised specifications
222	2	Technical Specs		Communication Interface Device	Device should be able to communicate with serial port, supporting RS232 and Netowrk Protocols with operating temperature 0~55 deg C	To be considered for Wired through RJ45/Wireless through Dongle

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
223	2	VOL II I. Variable Message Sign Board – VaMS	57	Components should include SNMP Manageable VMS controller which can be controlled from remote, LEDs, LED matrix boards, pixel arrangements showing horizontal and vertical pitch and total number of pixels, power supply (including surge protection, inverter, back-up batteries), communication ports, cable termination, enclosure and mounting accessories.	Components should include SNMP Manageable VMS controller which can be controlled from remote, LEDs, LED matrix boards, pixel arrangements showing horizontal and vertical pitch and total number of pixels, power supply (including surge protection, inverter, back-up batteries), communication ports, cable termination, enclosure and mounting accessories. Component should be certified with CE, FCC, CB, RoHS for safety	No Change
224	2	Vol.2/ 3.17 Technical Specs.	59	All access panels shall be limited in size so they can be opened or closed by person shall be designed to prevent unauthorized access.	Catwalk to be provided behind the LED tiles for maintenance	No modifications in the RFP document
225	2	Page 132/ Vol 2		Centralized Help Desk System : Helpdesk system should provide incident management, problem management templates along with helpdesk SLA system for tracking SLA's pertaining to incident resolution time for priority / non-priority incidents.	Our understanding is that Helpdesk system would be requiring a workflow that would help in designing various modules such as incident, problem management. 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.	MSI to finalize and optimize the architecture as per specifications provided
226	2	Vol 2/ 4.6 Technical Specification (B. RFID Reader)	82	RFIDR.012-Accessories-Vehicle-mount DC power cable kit Antennas, and antenna cables	What is the need of DC Power cable?	MSI can decide with OEM to best fit the power requirement
227	2	Vol 2/ 4.3 Scope of Work	75	4. MSI should install surveillance cameras at bulk waste generation/ collection points	What are the specification of surveillance camera ? Is it same as the Specification given in 4.6 Technical Specification (G. Pan tilt and Zoom CCTV Camera)	Yes the camera specifications are same as mentioned in general surveillance

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
228	2	Vol 2/ 4.6 Technical Specification (E. Mobile Device for Biometric Attendance)	86	Mobile Device for Biometric Attendance	What are the specification for biometric attendance?	Details already provided in document
229	2	Volume II	Page No. 73,	5) Placing RFID tags/QR Code on each house-hold/Commercial Establishment/Dustbins from where waste need to be picked up.	We suggest that placing RFID Tags on each dustbin is not required. Kindly suggest.	No modification in the RFP document
230	2	Vol 2/ 4.5.4. Unified Dashboard View for Solid Waste Management	78	10) Unified view should be capable of being integrated with other departments	Please specify which other departments. What level of integration is required?	All available departments which are directly and indirectly linked with SWM. It may include PWD, ADA, Tourism, Police, Jal Nigam etc.
231	2	For all Cameras - Fixed Box Surveillance Camera (HD) / PTZ (HD) / IP Dome Camera	51	To be added	Monitoring the city is highly crucial, the recordering of the video also need to be highly stable. Thus, we would recommend few major features at camera end to obtain high clarity and stable video feeds. 1)Electronic Image Stablization (EIS) - which reduces the effects of vibration in a video. Thus provide stable video stream instead of random vibrations due to pole. 2) Defog - when the environment is foggy and the image is misty,it enhances the subtle details so that the image appears clearer. 3) 3D DNR (Digital Noise Reduction) - reduces the noise in the video stream. 4)High Light Compression (HLC) function can be used when there are strong lights in the scene affecting the image quality. 5)If you focus on an object against strong backlight, the object will be too dark to be seen clearly. BLC compensates light to the object in the front to make it clear The we highly recommend to add these features for the cameras - EIS, Defog, 3D DNR , HLC, BLC	OEM Should able to sustain all the Temperature and Humidity as per city condition
232	2	Vol 2/ 4.3 Scope of Work	75	6) Integrating data feed from waste disposal site (data feed access would be provided by BSCL/BMC) like feeds from CCTV camera and Data from Weigh Bridge	Please specify the make and model of CCTV camera, and how many days history should be available. Also, specify whether the data will be stored on local or central server.	Storage Strategy is clarified in the corrigendum document.

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
233	2	Vol 2/ 4.3 Scope of Work	75	5. Solution shall be automated with a computerized weigh bridge	Please specify that whether weighbridge is required or not. If weigh bridge is already there please specify the make and model and it's capacity. Also, if weigh bridge is required please provide its specification	Weighbridge is already available. Details shall be shared with MSI
234	2	Vol 2/ 4.4. Mandatory H/W for Real time monitoring of Solid Waste Collection Process	76	5) RFID Readers at strategic location such as Key Entry/Exit Points, Parking Areas, Waste Transfer Stations, Regional/Zonal Offices, Weighbridges, Dump Site and Waste Recycling Plants	Please specify qty for each location.	MSI to conduct survey at this locations and provide the number for installations
235	2	Vol 2/ 4.3 Scope of Work	75	7) Sizing of hardware, software and network devices required in DC/DR for using the Integrated SWM.	Please provide the specification of Network Switch. How many port switch is required?	MSI shall design the complete Architecture. Technical specifications for the architecture has been provided.
236	2	Vol 2/ 4.4. Mandatory H/W for Real time monitoring of Solid Waste Collection Process	76	10) Central control center should have facility of audio- discussion and display unit.	Please clarify this point.	Clause is clear and requirements are provided in the RFP document.
237	2	Vol 2/ 4.5.3. Mobile Application for Customers	77	3) Crowd sourcing application for compliant registration and grievances	Please clarify this point.	SWM Mobile Application to be provided with this functionality and integrated with existing app. Although Clause is clear and requirements are provided in the RFP document.
238	2	Vol 2/ 4.4. Mandatory H/W for Real time monitoring of Solid Waste Collection Process	76	7) Biometric attendance devices have to be given to supervisor staff.	Please clarify on the no of user for the biometric attendance.	It is understood to have mobile application with unlimited license and shall also have ability to integrate with existing application
239	2	Volume II: Count of cameras at traffic junction & Volume I: Bill of quantity for ITMS cameras	309-310	As per camera count table in Vol II, following is the total count considered for Fixed Box Cameras Illegal Parking cameras = 46 Fixed Cameras = 46 Only surveillance Fixed cameras = 10 Total =102 BoQ Chart in Vol 1 have only 56 fixed cameras. Either Camera for illegal parking.	As per RFP BoQ Chart in Volume 1 , 56 fixed cameras only asked under ITMS system. Illegal parking cameras 46 nos are not mentioned in the BOQ. Kindly clarify.	Number of Cameras mentioned in the BoQ against each functionality are indicative. MSI shall ensure that functionality asked is complied either through Analytic Software which shall be with or without additional hardware.

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				Kindly update camera BoQ chart in Vol 1		
240	2			GIS Data Model	Is there any existing GIS data model available with ASCL? If yes then kindly share the same.	GIS complete scope is mentioned in the RFP document
241	2	Volume 2 / 3.17 Technical specification	54	G. Multi Sensor /Panoramic 360° Camera	Technical specifications for Multi Sensor /Panoramic 360° Camera are specified in the RFP. However there is no line item in the BOQ along with required quantity. Request to Kindly Clarify.	MSI is requested to conduct city survey of mentioned locations in the Annexures and is free to optimize the camera number through available technology mentioned in RFP document.
242	2	Volume 2, Clause 5.6.4	90	Development of GIS based Mobile Application for municipal Survey and Services with comprehensive features for ASCL	Can you please share the specific requirements of ASCL for the GIS Mobile application like features, modules etc.	Please check the corrigendum which have specific requirement for GIS Mobile Applications
243	2	Volume 2, Clause 5.7.2	91	Data Collection	Can you please share the details of the existing GIS data with ASCL?	GIS complete scope is mentioned in the RFP document since
244	2	Volume 2, Clause 5.6.2, Point number 4	90	Integration of the readily available data with ASCL to the proposed application/system	Can you please clarify what is the existing available dataabase with ASCL?	Complete Web and Mobile based IT Solution for Secondary Collection onwards is available.
245	2	Volume 2 / 3.17. Technical Functions / M. Network Switch Ruggedized/ NSR.005 / Layer 2 Features	60		We would request to add IP/MPLS as technology for the switch as this will make E2E IP MPLS network catering different service (including future service also)	No Change
246	2	M. Network Switch Ruggedized - NSR.009	60	The switch should support Dynamic Routing–RIPv1/v2, OSPF for both IPv4 & IPv6, PBR.	The switch should support Dynamic Routing–RIPv1/v2, OSPF for both IPv4 & IPv6, PBR. is not needed for ruggedized switch as they are L3 switch features. These switches will operate on L2 only. Kindly request to delete the clause to ensure max. OEM participation.	No Change
247	2	M. Network Switch Ruggedized - NSR.002	59	The switch should have non-blocking wirespeed architecture with support for both IPv4 & IPv6 from day one with wire-rate switching fabric of minimum 16 Gbps or more. Switch should have minimum 1GB RAM/DRAM & 1GB removable flash card.	The switch should have non-blocking wirespeed architecture with support for both IPv4 & IPv6 from day one with wire-rate switching fabric of minimum 24 Gbps or more. Switch should have minimum 1GB RAM/DRAM & 1GB removable flash card. Justification: To make it complete NON blocking we should include 1 GBPS speed of 4 SFP ports also. This would make it 1 GBPS port of 8 copper ports + 4	No Change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
					Fiber ports into two i.e 24 GBPS or more.	
248	2	M. Network Switch Ruggedized - NSR.001	59	The switch should be Industrial Grade ruggedized in nature that provides minimum 8 x 10/100/1000 BASE TX access ports, additional 2 x 1000 Base-X SFP & 2x 1GE Uplink ports. One (1) ruggedized single mode SFP should be supplied with the switch.	The switch should be Industrial Grade ruggedized in nature that provides minimum 8 x 10/100/1000 BASE TX access ports, additional 2 x 1000 Base-X SFP & 2x 1GE Uplink Fiber port. Atleast 3 ports of the switch should be 60 W(HPOE) . Two (2) ruggedized single mode SFP should be supplied with the switch. Justification: 60W(HPOE) is required to support outdoor PTZ cameras. 2 SFP ports are required to support switch in outdoor ring topology of 1 in and 1 Out.	No Change
249	2	New		To be included	Switch should support zero touching provision for ease of deployment.This is important for outdoor ring topology deployment	No Change
250	2	New		To be included	Switch should support surge protection of 6KV on copper ports. These are as per any international standard to protect switches from light protection	No Change
251	2	New		To be included	Switch should support maximum POE Budget of 200 watt. These are basic certification of any rugged switches. This is to support atleast POE+(30W) for all the 8 port.	No Change
252	2	New		To be included	Switch should support MACSec and IEEE 1588v2 PTP. These are meant for security to be embeded in the switches.	No Change
253	2	New		To be included	Switch should support DHCP Snooping, DHCP IP and Address Resolution Protocol (ARP) spoof protection , ARP poisoning detection , IP Source Filtering . Since these are outdoor switch this feature would help automation of switch.	No Change
254	2	New		To be included	Switch should be EN 55022 (Emission Standard) , EN 55024 (Immunity Standard). Rugged switches should be Emmission and imunity hardend	No Change
255	2	M. Network Switch Ruggedized - NSR.008	60	Static, Inter-VLAN routing must be enabled from day one	Static, Inter-VLAN routing must be enabled from day one is not needed for ruggedized switch as they are L3 switch features. These switches will operate on L2 only. Kindly request to delete the clause to ensure max. OEM participation.	No Change
256	2	New		To be included	Should support VC/stacking upto 4 units	No Change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
257	2	NSR.002	General Requirement	The switch should have non-blocking wire speed architecture with support for both IPv4 & IPv6 from day one with wire-rate switching fabric of minimum 16 Gbps or more. Switch should have minimum 1GB RAM/DRAM & 1GB removable flash card.	RAM & DRAM varies with OEM operating system size and mentioned DRAM memory/flash memory is OEM specific, so would request you to allow OEM's to provide "sufficient flash/DRAM memory to ensure smooth operation of switch"	No Change
258	2	M. Network Switch Ruggedized - NSR.004	60	802. 1Q VLAN on all ports with minimum 10k MAC address	Kindly revise the clause to " 802. 1Q VLAN on all ports with minimum 8k MAC address" . This spec is favouring a particular OEM, so kindly dilute the same for max. OEM participation.	No Change
259	2	M. Network Switch Ruggedized - NSR.002	59	Switch should have minimum 1GB RAM/DRAM & 1GB removable flash card.	Every OEM has different product architecture and memory requirement to run the services.So, kindly request to delete this clause.	No Change
260	2	Request for Addition	General Requirement	Switch should support industry open standard SDN open flow v1.3 from day-1	Considering Data Centre switches have been considered with SDN controller, so SDN openflow v1.3 support is also required on Edge switches for seamless operation. Its an open standard and all leading OEM's are member of Openflow standards.	No Change
261	2	Request for Addition	Network Security	Switch should support industry open standard security features like DHCP snooping, IP source guard and Dynamic ARP Inspection (DAI), Tri-authentication: MAC-based, web-based and IEEE 802.1X	As per DOT mandate, the network for IOT should be highly secured to mitigate cyber threats. So would request you to consider switch with mentioned industry standards	No Change
262	2	Volume 2 / 3.17. Technical Functions / M. Network Switch Ruggedized/ NSR.005 / Layer 2 Features	60	The switch should support IGMP v1/v2/v3 & up to 1000 IGMP groups as well as IGMP snooping & IGMP filtering. Should also support MLD v1/v2	1000 IGMP group is not required at the access none of the smart city as their will be not more than 500 source. Thus kindly modify the clause as "The switch should support IGMP v1/v2/v3 & up to 500 IGMP groups as well as IGMP snooping & IGMP filtering. Should also support MLD v1/v2"	No Change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
263	2	NSR.009	Layer 3 Features	The switch should support Dynamic Routing – RIPv1/v2, OSPF for both IPv4 & IPv6, PBR, network address translation etc. protocol by enabling/upgrading the license as & when required	Network address translation is router functionality and not required as all last mile switches will be configured with private IP, so would request you to relax network address translation feature. Considering CCTV streams will be multicast traffic, so would request you to consider switch with support of following industry standard multicast protocols from day-1 Protocol Independent Multicast (PIM) PIM Dense Mode (DM) for IPv4 and IPv6 PIM Sparse Mode (SM) for IPv4 and IPv6PIM protocol	No Change
264	2	Vol. 2/ 8.1.5	207	Bandwidth provisioned needs to adhere to following minimum benchmark requirements: I. Latency should be less than 15 ms II. Jitter should be less than 2% of one-way latency III. Packet loss should be less than 0.01%	Request ASCL to clarify, if this clause is applicable to ICCC and primary datacenter.	The clause is clearly mentioned in the document along with service level agreement for each of the services.
265	2	Volume 2 Section: 5.4 Municipal Department Utility Asset Management and Maintenance	Page No 89	Municipal Department Utility Asset Management and Maintenance	Approx. data size of transactional data	Available information will be shared to successful bidder
266	2	Volume 2 Section: 5.10 The Smart City Application should have following Modules	Page No 113	1. GIS Module for Estate Management	Are all the details such as municipal boundaries, ULN boundaries and building details available, if yes in what format	Available information will be shared to successful bidder
267	2	Volume 2 Section: 4.5.3 Mobile Application for Customers	Page No 77	Meragra Application	Are these GIS maps internal or external?	Base Map created BY MSI need to be used , However MSI can also use External Map as per their Solution

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
268	2	Vol-II, Section - 5.8.1.	98	<u>Supply of Desktop GIS and Image Processing Software- Functional Description</u> <u>A : General Functions-</u> 14) The proposed software should have functions of GIS and Image Processing along with advance functions such as network analysis, terrain analysis, 3D analysis, change analysis, etc. <u>B: GIS Functions-</u> 13 The software should be capable to process and visualize the stereo pair data. It should be able to create DEM from stereo pair and perform ortho-rectification.	As per the RfP, neither stereo data nor 3D elevation data is being procured. Need to understand how will the stereo pair processing capability be utilized. Also, if no 3D data source are factored in for procurement, how will the terrain analysis, 3D analysis be conducted. Kindly clarify?	Software should have 3D Analysis, as on when ASCL will have 3D data it can be used.
269	2	Volume 2 Section : 5.8.1. Supply of Desktop GIS and Image Processing Software	Page No 98	Bidder will provide three licenses of Desktop GIS and Image Processing Software	As we understand data conversion is also part of the scope if yes, please share the volumes and percentage of data available in digital format.	Bidder have to Supply three licenses of Desktop GIS and Image Processing Software
270	2	SECTION: II TERMS OF REFERENCE (TOR) / 1.3. NON FUNCTIONAL REQUIREMENTS OF THE PROJECT & page No 35 1.4. MINIMUM & INDICATIVE BOM FOR THE SOLUTION	46	GIS Map of GSDL may be used for this purpose GIS Base Map - 1 Nos.	Assuming GIS Map will be provided by DFS from GSDL in the standard format (Shape File) for integration with proposed CAD system. And GIS map is not included in deliverables. Please confirm.	Bidder have to create GIS Base Map Data
271	2	RFP Volume 2 Digitization of Satellite Imagery, Updating and capturing of various layers	93	Bidder will prepare an up-to-date large-scale base map (Scale 1:2000) of all the wards/zones of Agra City using satellite imageries and then will prepare a new Database using the existing Database available with Agara Municipal corporation, as unified Geo-spatial Data with infrastructure details.	Bidder will prepare an up-to-date large-scale base map (Scale 1:2000) of all the wards/zones of Agra City using satellite imageries of .3 Mtr or better provided by ASCL and then will prepare a new Database using the existing Database available with Agara Municipal corporation, as unified Geo-spatial Data with infrastructure details.	Bidder have to create Base Map at 1: 2000 Scale using .3 or better Resolution Satellite Imagery, Technically .3 Mtr is suitable.

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
272	2	Volume 2 Section: 5.8.1 Supply of Desktop GIS and Image Processing Software / B. GIS Functions	Page No 100	Integrated GPS module for desktop and mobile GIS.	Can you give more details on the existing and future systems, What type of integration need to be done? Is it Database level integration or application level integration?	Required functionality available in Desktop and mobile GIS Platform
273	2	Volume 2 Section: 1.7 9. GIS Integration:	Page No 19	GIS Integration	Can you list the dashboards and functionalities required	Already mentioned in RFP, MSI shall undertake detail assessment for integration. Detailed already mentioned in RFP, 5.11. Integration GIS with existing and proposed/future Smart Systems. Also mentioned in point 9.
274	2	Volume 2 Section: 5.6.2	Page No 90	1) Updating and Creation of Base map 2) Creation of Utility Data for New Area Using CAD Drawings approx. 9 Sq.Km 3) Geo-referencing and spatially adjusting the existing town planning sheets with available with ASCL and creating new digital TP sheets for the remaining number of physical and non geo reference TP sheets 4) Integration of the readily available data with ASCL to the proposed application/system 5) Property/Consumer Survey	Can you please let us know how many CAD drawings are available for the entire area of 9 sq. km	Data is available for ABD area of 9 sq.km
275	2	Volume 2 Section : 5.1 Project Objective Point 3	Page No 89	Design Develop Enterprise Web GIS Municipal Application for all ASCL Departments - Pan City	Can you please let us know the ABD Area in Sq.Km.	Approx 9 Sq KM
276	2	Volume 2 Section : 5.1 Project Objective Point 4	Page No 89	Design and Develop Geo-enabled Mobile Application for ASCL Pan City	Can you please let us know the PAN City Area in Sq.Km.	220 Sq Km.
277	2	Volume 2 Section: 7.2. Design, Configuration, Installation and Commissioning of DC and DR	Page No 123	14. MSI should have provision of dedicated virtual links for data replication between their multiple datacenter in order to provide secure data replication for DR services.	Can you share a list of all the municipal details available	MSI to coordinate with all available departments and get the details

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
278	2	Volume 2 Section: 5.6.2 Data Updating and Data Creation for ABD Area	Page No 90	4) Integration of the readily available data with ASCL to the proposed application/system	Can you share the main parameters on which decision to be taken	MSI to coordinate with each department for parameters to capture
279	2	Volume 2 Section : 13. Project Implementation Timelines & Deliverables	Page No 303	Project Implementation Timelines & Deliverables	could you please confirm that the department as seeking any specific software's.	Bidder Have to Develop 12 Department Applications as Per RFP
280	2	Volume 2 Section : 5.9. Supply of COTS Enterprise GIS Software	Page No 112	The Smart City Application should have following Modules	Could you please confirm that the entire activities to be complete in 4 months duration or in O&M Period.	MSI to ensure that Scope of Work is as per GIS and O&M for complete 5years
281	2	Volume 2 Section: 5.7.3	Page No 92	Data validation and gap analysis: Selected Bidder will conduct QA, QC and check the Qty , Quality, Accuracy, source and reliability of the collected data from ASCL, whether the data (spatial or non-spatial) is recent or accurate enough to be used and not obsolete.	Could you please elaborate on selected vendor's role whether it is limited to submit gap report only or selected bidder is also responsible to fill the gaps of spatial and non-spatial data using active field survey. Kindly confirm.	Clause and scope of work is clearly mentioned in the RFP document.
282	2	Volume 2 Section: 5.6.2	Page No 90	1) Updating and Creation of Base map 2) Creation of Utility Data for New Area Using CAD Drawings approx. 9 Sq.Km 3) Geo-referencing and spatially adjusting the existing town planning sheets with available with ASCL and creating new digital TP sheets for the remaining number of physical and non geo reference TP sheets 4) Integration of the readily available data with ASCL to the proposed application/system 5) Property/Consumer Survey	Could you please quantify volumes and number of sources for updating activity with respective to Town Planning	MSI to coordinate with all vendors as per scope of work mentioned in the RFP document
283	2	Volume 2 Section : 5.6.1 Base Map Creation - Pan City	Page No 90	Survey - Base Map validation and Verification	Could you please share the detailed technical/functional document for geo-enabled mobile application	Details already available in RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
284	2	Volume 2 Section : 5.7.9. Property Survey and Property Tagging – ABD Area	Page No 94	ASCL is already in process of property assessment Survey bidder have tag this property survey data to GIS and for this bidder may have to do field survey, the field teams will visit door to door to cover all properties in the area of interest. The teams will contact the occupant/ owner or any other responsible person in the family. And identify the property data and tag it with GIS property maps using mobile / tablet/handheld application.	Could you please share the existing base map and utility data details in terms of source type, data currency, volume and size data.	MSI to ensure that complete scope of work is covered as per RFP document
285	2	Volume 2 Section: 4.6. Technical Specifications D. Automated Vehicle Locator System -AVLS / AVLS.023	Page No 85	Reports	Data shall be provided with near real-time as real-time data may lead time lag. However data shall be recorded with a time stamp and shall be sent to the server?	No modification in the RFP document
286	2	Volume 2 Section: 5.1	Page No 89	AMC for 5 years	Do the base map, and other GIS data need to update during the AMC period? If yes; what is the frequency of update?	GIS updation is part of MSI and shall be taken care during complete O&M period
287	2	Volume 2 Section: 9.9.8. Platform functionality API management and gateway	Page No 246	4. Platform should also be able to bring in other e-governance data in City Operations Command Centre dashboard	Do you have any existing Land management system?	Clause is clear and mentioned in the RFP document
288	2	Volume 2 Section: 5.7.3	Page No 92	Data validation and gap analysis: Selected Bidder will conduct QA, QC and check the Qty , Quality, Accuracy, source and reliability of the collected data from ASCL, whether the data (spatial or non-spatial) is recent or accurate enough to be used and not obsolete.	Does this gap analysis for Pan Agra covering the entire 141 Sq. Km or is it limit to ABD?	Scope of work is clear mentioned in the RFP document
289	2	Volume 2: Scope of Work 5.7.4. Positional Accuracy	92	the data and see whether data fits on the projection of basemap in case data doesn't fit ASCL will provide data which can be used.	Does this imply that all the existing datasets including the base map will be corrected by ASCL, and that the selected bidder is only required to assess if the data fits on the processed ortho-rectified satellite imagery?	Scope of work is clear mentioned in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
290	2	Volume 2 Section: 5.5 Dash Board for Project Planning, Implementation and Monitoring	Page No 90	3) Support overlay of Final Plan on map.	How many standard reports are required approximately	Scope of work is clear mentioned in the RFP document
291	2	Volume 2, Clause 5.6.2 and 5.7.9	90 & 94	Property/Consumer Survey	Is the carpet area assessment also the scope of the project?	Yes. Please refer RFP document for complete scope of work
292	2	Volume 2 Section: 5.8.1 Supply of Desktop GIS and Image Processing Software / B. GIS Functions	Page No 100	Support of IFC object for BIM applications.	Is the property details spatial and non-spatial data available, if yes then in what format?	Software should have Feature and function to Support of IFC object for BIM applications.
293	2	Volume 2 Section: 4.5.5 Infrastructure Solution - Field Devices	Page No 78	Common Functional Requirements	Is there any expectation in-app notification apart from the SMS and email notification like push notification over smartphone	Bidder need to follow industry standard for such type of requirements
294	2	Vol II, Section 5.10.3	113	This system will enable user to do the advance planning of all possible disasters to control the situation effectively and rapidly locating the incident location which requires immediate rescue and administrative support.	Is there any requirement of Emergency analytics & planning such as water logging flood analysis in city in case of heavy rain based on the DEM generations & raster calculation. With affected area and routes etc.	Yes all emergency scenarios to be considered.
295	2	Volume 2 Section: 5.7.9	Page No 94	Property Survey and Property Tagging – ABD Area: ASCL is already in process of property assessment Survey bidder have tag this property survey data to GIS and for this bidder may have to do field survey, the field teams will visit door to door to cover all properties in the area of interest. The teams will contact the occupant/ owner or any other responsible person in the family. And identify the property data and tag it with GIS property maps using mobile / tablet/ handheld application.	It seems that ASCL has already engaged a contractor for property assessment survey within the ABD. We assume that we are not required to work along with them for completing this activity. In other words all the properties surveyed data will be supplied to us for tagging it into GIS data	Clause is clear and scope of work is clearly mentioned in the RFP document.
296	2	Vol-2	90	5.6.4. Implementation of Enterprise GIS Suite – Pan City 2) Maximum No. of users on Intranet simultaneously editing spatial data - 30	Kindly amend the clause as- 2) Maximum No. of users on Intranet simultaneously editing spatial data - 2. Editing spatial data should be the responsibility of	No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
					administrator.	
297	2	Vol-2	90	5.6.3. Provide GIS Software – Pan City 2. Supply, installation, training and maintenance of Enterprise GIS Platform 16 core License	Kindly amend the clause as- 2. Supply, installation, training and maintenance of Enterprise GIS Platform 16 core License The GS Software should be core independent	No modification in the RFP document
298	2	Vol II Section 5.6.5	90	Integrations GIS with existng , proposed systems & future systems	Kindly clarify about the existng component and utilities that need to be integrated with GIS system?	Details already available in the RFP document
299	2	Vol II Section 5.7.2	90	Data Collection: Selected bidder will collect the available maps and secondary data (if any) from ASCL (soft copy and or hard copy) namely;municipal boundary, Zone boundary, Town survey maps, Field measurement book (if available), ward boundary maps, slum related data, sanitation, and basic infra-structural facilities and land marks, details of Town Planning Schemes to be incorporated superimposed / synchronized and corrected suitably to match current field data;	Kindly clarify if Agra smart city will provide available base map layer data of Pincode polygons, locality and sub-locality polygons as well for address layer?	Please refer scope of work document.
300	2	Vol II, Section-5.6.4.	90	Implementation of Enterprise GIS Suite – Pan City: 7) Development of GIS based Mobile Application for municipal Survey and Services with comprehensive features for ASCL	Kindly clarify if how many mobile survey users are required?	Mobile Application should be for unlimited users.
301	2	Vol II, 5.7.7	92	Data Modelling Pan Area	Kindly clarify if the datamodel needs to be rule based that restricts manual errors and support for spatial/non spatial rules, relationships, GIS network based on industry standards with attribute values as a domain and subtype or this need to be general?	No modifications in the RFP document
302	1	Vol I / Section 3.7. Technical Bid Criteria & Evaluation- B.1	45	Use cases relevant to Agra City: Bidder /OEM needs to demonstrate/present min 5 use cases like CCTV /Govt database / Smart Digital Signage Kiosks /Smart Transport/ Crowd monitoring/Search and	Kindly clarify if use case for GIS COTS Integration can also be demonstrated for Technical evaluation.	GIS use cases are not considered in this technical evaluation

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				tracking of person of interest etc.		
303	2	Vol II, Section 5.7.1.	90	Geospatial Data Creation and Updating Base Map for PAN Area: The bidder have to create GIS Base map using satellite imagery and utility Layers and update the existing base map and Utility data and also create new data.	Kindly provide the detail of existitng GIS data and layers?	The scope is clearly mentioned in the RFP document
304	2	RFP Volume 2 5.6.1. Base Map Creation – Pan City	89	Procure and supply .5 m or better Resolution, Ortho rectified, Geo Referenced Satellite Image	Ortho ready satellite image with 0.3 resolution s require to create 1: 2000 Scale and Satellite image will be provided by authority (Agra Smart City Limited)	Bidder have to create Base Map at 1: 2000 Scale using .3 or better Resolution Satellite Imagery, Technically .3 Mtr is suitable. Bidder have to procure Satellite Imagery ASCL will provide necessary NOC/Approvals for procurement of Satellite Imagery to the successful bidder
305	2	VOL - II , 5.9. Supply of COTS Enterprise GIS Software	105	Bidder will supply Enterprise GIS platform which will be installed on 16 Core Hardware Server (Hardware server will be provided by ASCL for installation).	Our understanding is that MSI needs to provide software and database licenses ? Please confirm	The scope is clearly mentioned in the RFP document
306	2	Vol II, 5.7.5 & 5.7.11	91 & 93	The selected bidders have to procure and supply ortho rectified having 5m or better solution latest satellite imagery. Latest High resolution Ortho rectified, Geo Referenced Satellite Image of 0 .5m or better resolution	Pleaase clarify the spatial resolution of imagery as 0.5 M or 5m required as it is mentioend contradictory respolution at Pg 91 and 93?	0.3 m resolution or Better to create Base Map 1:2000 Scale , Technically 0.3 Mtr Resolution Image will be needed to Prepare Base Map at 1:2000 Scale.
307	2	Vol-2	77	4.5.2. Mobile GPS based Staff Attendance Management System 3) Pictures should be stored on historical mode in the GIS Map for a period of 1 Month.	Please amend the clause as Pictures should be stored on historical mode in the GIS Map Data base for a period of 1 Month.	Clause is clear and No modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
308	2	Vol II, Section 5.7.10 & Section 9.9.2	93 & 246	<p>Final base maps will be prepared at 1:2000 Scale incorporating the data collected, processed and digitized after survey process. The base maps will be prepared in various layers as defined by ASCL.</p> <p>GIS Map Support: Software shall provide integrated capability to display high resolution satellite imagery and vector maps. To show the camera location on the map the map scale required is 1:1000 and to be created from high resolution satellite imagery of 0.5m</p>	Please clarify the base map need to prepare on 1:1000 or 1:2000 Scale.	Base Map need to be prepared at 1:2000 Scale
309	2	Vol II, Section -5.7.5.	91	<p>Procurement of High Resolution Satellite Imagery – Pan Area: The selected bidders have to procure and supply ortho rectified having 5m or better resolution latest satellite imagery.</p>	<p>Please clarify the typo error mentioned as solution instead of resolution latest satellite imagery.</p> <p>Assuming the procurement process of Imagery will route through ASCL with NRSC as it has to be a G2G transaction.</p>	Bidder have to Procure Satellite Imagery 0.3 Mtr or better resolution, ASCL will provide necessary NOC/Approvals for procurement of Satellite Imagery to the successful bidder
310	2	Volume 2: Scope of Work 5.7.2. Data Collection	91	5) Soft copy Maps / drawings of utilities like water supply, sewerage, storm, water drainage, solid waste disposal, roads and street lights along with the data available with other Concerned Department.	Please clarify with quantities the number of soft copy maps and drawings of utility datasets that will be supplied to the selected bidder. This is critical in terms of estimating the effort involved and processes that may be required.	MSI to coordinate with each of the concerned departments to be get desired data
311	2	Volume 2 5. Component 5 : City and Enterprise GIS Solution	78	<p>The Smart City Application should have following Modules:</p> <ol style="list-style-type: none"> 1) GIS Module for Estate Management 2) GIS Module for Parks and Gardens 3) GIS Module for Water Supply 4) GIS Module for Sewerage Operation 5) GIS Module for Road and Traffic 6) GIS Module for Strom Water Drainage 7) GIS Module for Street Light Management 8) GIS Module for Education 9) GISModule for Health Services 10) GIS Module for Advertisement and Hoardings 11) GIS Module for Disaster Fire & Emergency Services Management 	Please confirm if we need to build only GIS interface as listed in RFP or complete modules including non-GIS functionalities. In this case we will need detail requirements of business workflow each application for sizing this opportunity. Please provide the same	No modification in the RFP document although Bidder have to Build GIS enabled Application for 12 Departments

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				12) GIS Module for Capital Project Monitoring and Control		
312	2	Vol.2,5 Component 5	89	Component 5 : City and Enterprise GIS Solution	Please confirm on the estimated size and growth % of the userbase for Citizen App.Please provide the estimated concurrency as well.	License of Mobile App should be infinite
313	2	Volume 2 Section : 5.7.1 Base Map Creation - Pan City	Page No 91	Geospatial Data Creation and Updating Base Map for PAN Area: The bidder have to create GIS Base map using satellite imagery and utility Layers and update the existing base map and Utility data and also create new data.	Please confirm that bidder has to create entire base for pan city or to update?	The scope of work is clearly mentioned in the RFP document.
314	2	Volume 2 Section : 5.7.2 Data Collection	Page No 91	Selected Bidder will collect the available maps and secondary data (if any) from ASCL (soft copy and or hard copy) namely; municipal boundary, Zone boundary, Town survey maps, Field measurement book (if available), ward boundary maps, slum related data, sanitation, and basic infra-structural facilities and land marks, details of Town Planning Schemes to be incorporated superimposed / synchronized and corrected suitably to match current field data;	Please confirm that bidder has to do the random sample Base Map validation and Verification or complete pan city?	The scope of work is clearly mentioned in the RFP document.
315	2	Volume 2: Scope of Work 9) GIS Integration	19	MSI is required to update GIS maps from time to time	Please elaborate on the requirement of updating the GIS maps from "time to time" - What is the duration or interval between updated GIS maps data, and will the selected bidder be required to procure latest satellite imagery at each update cycle? Please clarify the requirements	The scope of work is clearly mentioned in the RFP document.
316	2	Volume 2: Scope of Work 5.7.2. Data Collection	91	5) Soft copy Maps / drawings of utilities like water supply, sewerage, storm, water drainage, solid waste disposal, roads and street lights along with the data available with other Concerned Department.	Please provide details in terms of creating date/year (i.e. how recent these datasets are), their formats and available attributes.	MSI to coordinate with each of the concerned departments to be get desired data
317	2	Volume 2: Scope of Work 5.7.2. Data Collection	91	1) Existing Base map, 2) Town Planning Schemes showing proposed land use zoning, transport network and sites designated for various public purposes. 3) Maps showing administrative boundaries ward boundaries, census boundaries, slum	Please provide details in terms of creating date/year (i.e. how recent these datasets are), their formats and available attributes. We further assume that all datasets are 2D. Please confirm.	MSI to coordinate with each of the concerned departments to be get desired data

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				boundaries. 4) Revenue Maps showing Cadastral Boundaries.		
318	2	Volume 2 Section : 5.1 Project Objective Point 2	Page No 89	Supply of Enterprise GIS Platform Suit – Pan City	Please provide details of existing e-governance software. If it is a custom built application, please let us know what the technology stack is? What are the modules currently functional	No modification in the RFP document
319	2	Volume 2: Scope of Work 5.7.1. Geospatial Data Creation and Updating Base Map for PAN Area	91	The bidder have to create GIS Base map using satellite imagery and utility Layers and update the existing base map and Utility data and also create new data.	Please provide details of the Satellite Imagery provided by ASCL in terms of sensor / resolution of imagery, type of product (i.e. ortho rectified or stereo etc.) and year / time of acquisition.	The selected bidders have to procure and supply ortho rectified having 0.3 m or better Resolution latest satellite imagery.
320	2	Volume 2: Scope of Work 5.7.11. Tentative GIS Data Layers require for Geospatial Smart City Project	95	Town Planning Schemes (TP Sheets), Development Plan (DP)	Please provide the counts / quantities and sample data of the items mentioned hereunder. Specifically the hardcopies and Survey maps etc. This information is important in terms of understanding the efforts and time involved and for formulating a methodology	MSI to coordinate with concerned departments to be get desired data
321	2	Volume 2 5.5. Dash Board for Project Planning, Implementation and Monitoring	90	Visualize Proposed Utility Schema Plan on GIS like road, Sewerage street Light, also other project like Park, School etc Plan and Actual gap Analysis	Request you to elaborate these requirements. Our assumptions is its just displaying available data for analysis and not to implement any other special rules / analysis. Please confirm our understanding	Clause is clearly mentioned in the RFP document
322	2	Volume 2: Scope of Work 5.7.8. Digitization of Satellite Imagery, Updating and capturing of various layers	93	Bidder will prepare an up-to-date large-scale base map (Scale 1:2000)	Section '9.9.2. GIS Map Support' states "map scale required is 1:1000". We assume that this should be 1:2000, which is an appropriate map scale based on the satellite imagery resolution. Please confirm	Bidder have to create Base Map at the Scale of 1:2000
323	2	Volume 2 Section: 5.10 The Smart City Application should have following Modules	Page No 112	1. GIS Module for Estate Management	Should the application support view all these modules on mobile browsers along with desktop and web browsers?	Yes it should be available on Mobile , Web and Desktop Client
325	2	Volume 2 Section: 1.7 3.Security:	Page No 18	Solution should provide for maintaining an audit trail of all the transactions and should also ensure the non-repudiation of audit trail without impacting the overall	Should the audit trail of the data platform be secured and stored separately?	Clause is Clearly available in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
				system. Performance of the system		
327	2	RFP Volume 2 9.9.2. GIS Map Support	246	Software shall provide integrated capability with maps from survey of India and ESRI.	Software shall provide integrated capability with maps from survey of India and ESRI, Google, Bing, Shp, Open street	Software shall provide integrated capability with maps from survey of India and ESRI, Google, Bing, Shp, Open street or any other External GIS Data Source.
328	2	RFP Volume 2 9.9.2. GIS Map Support	246	System should support GIS supported solutions like ESRI, etc.	System should support GIS supported solutions like ESRI,IGIS, etc.	System should support GIS supported solutions like ESRI,IGIS, ERDAS, ENVI Google, or any other Std GIS Platform etc.
329	2	Volume 2: Scope of Work 5.7.5. Procurement of High Resolution Satellite Imagery – Pan Area	92	The selected bidders have to procure and supply ortho rectified having 5m or better resolution latest satellite imagery.	The point # 5.7.4., states "Satellite Imagery provided by ASCL.", however this clause mentions that the selected bidder is required to procure the satellite imagery and process it. Please clarify.	No modification in the RFP document as clause is clear in the RFP document
330	2	Volume 2: Scope of Work 5.7.6. Geo referencing and Post Processing of Satellite Imagery – PAN area	93	Bidder shall generate the Grid of 1 x 1 Sq. km. on the Satellite Image and collect GCPs per Sq. km	The requirement of collecting / survey ground control points within a 1 x 1 sq.km grid is excess in terms of technical requirements of triangulating / geo-referencing satellite imagery. This can be suggested commensurate to overall mapping standards and accuracies based on map scale output. Please revise accordingly.	No modification in the RFP document as clause is clear in the RFP document
331	2	Volume 2 Section: 5.10 The Smart City Application should have following Modules	Page No 112	1. GIS Module for Estate Management	We are assuming that it is a desktop activity after approval of drawings. Please confirm.	No modification in the RFP document as clause is clear in the RFP document
332	2	Volume 2: Scope of Work 5.7.5. Procurement of High Resolution Satellite Imagery – Pan Area	92	The selected bidders have to procure and supply ortho rectified having 5m or better resolution latest satellite imagery.	We assume that '5m' is a typographical error and this should be 0.5m. Please confirm	Change to 0.3 m or better resolution
333	2	Volume 2: Scope of Work 5.7.11. Tentative GIS Data Layers require for Geospatial Smart City Project	95	Administrative Boundaries	We assume that all administrative boundaries will be provided by ASCL in digital vector format in the required Projection System. Please confirm.	Scope of work is clearly defined in the RFP document. MSI can request details from concerned department

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
334	2	Volume 2: Scope of Work 5.7.2. Data Collection	91	Selected Bidder will collect the available maps and secondary data (if any) from ASCL	We assume that all the existing datasets including the base map are in the following map projection system: Universal Transverse Mercator (UTM), Spheroid: WGS 84, Zone: 43N. Please confirm.	No modification in the RFP document as clause is clear in the RFP document
335	2	Volume 2: Scope of Work	--	--	We assume that GIS Base map data processing tasks and/or subsequent updates can be conducted at an offshore location, for example, at our Data Center facility in Mumbai. Please clarify.	All activities to be conducted from Agra and any change accepted only after approval from ASCL
336	2	Volume 2 Section: 5.6.2	Page No 90	1) Updating and Creation of Base map 2) Creation of Utility Data for New Area Using CAD Drawings approx. 9 Sq.Km 3) Geo-referencing and spatially adjusting the existing town planning sheets with available with ASCL and creating new digital TP sheets for the remaining number of physical and non geo reference TP sheets 4) Integration of the readily available data with ASCL to the proposed application/system 5) Property/Consumer Survey	We assume that the base map is available for the entire ABD area covering the 9 Sq.Km and this needs to be updated with the latest 50 cm resolution satellite imagery. Please confirm.	No modification in the RFP document as clause is clear in the RFP document.
337	2	Vol-2	92	5.7.5. Procurement of High Resolution Satellite Imagery – Pan Area ASCL will provide necessary NOC/Approvals for procurement of Satellite Imagery to the successful bidder. Cost of the Satellite Imagery would be quoted in the Price Bid. Bidder will provide the details of Satellite Imagery proposed in the Technical Solution.	We assume that the Satellite imagery will be provided by the ASCL. Hence the cost of the same will be bear by the ASCL.	No modification in the RFP document as clause is clear in the RFP document
338	2	Volume 2: Scope of Work	--	--	We assume that the scope of services will not entail any requirements of scanning of maps or legacy data or geo-referencing and digitization etc. Please confirm.	Bidder have to create Base Map at the Scale of 1:2000
339	2	Volume 2: Scope of Work	--	--	We assume that there would not be any training requirements for aspects relating to the "creation or updation" of 'GIS Base Maps contents'. Please confirm. In the event any basic training is required, please elaborate giving details of location, number of trainees/ participants and desired duration and infrastructure for training.	Bidder Have to prepare SOP for Data Updation and Training scope is clearly mentioned in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
340	2	Volume 2: Scope of Work 5.7.2. Data Collection	91	6) Location of State and Central Government offices, railways and highways, police stations, primary & high schools, colleges, universities, primary health centers, hospitals, banks, theatres etc.	We assume that these datasets also form a part of source data, and these will be provided to the selected bidder. Please provide details in terms of creating date/year (i.e. how recent these datasets are), their formats and available attributes.	No modification in the RFP document as clause is clear in the RFP document
341	2	Volume 2: Scope of Work 5.7.11. Tentative GIS Data Layers require for Geospatial Smart City Project	95	GIS Data Layers	We assume that these layers will already be a part of the existing base map. Please confirm and provide details, sample data.	No modification in the RFP document as clause is clear in the RFP document
342	2	Vol II, Section 7.2	123	DC minimum characteristics : Data Centre Availability: The availability of data from the hardware at a location must be guaranteed to 99.982% availability.	We assume this is also applicable of Enterprise GIS system at DC. Please confirm.	No modification in the RFP document as clause is clear in the RFP document for service level agreement
343	1	Vol1, Section - 7.9.1	77 & 81	Annexure 4 - Bill of Quantity I) GIS	We believe there is only one GIS section for bill of quantity at page number 77. we find a duplication of information at page number 81, where the RFP document is again asking for the Bill of quantity for GIS. Please clarify?	Please check the corrigendum for revised BoM
344	2	Vol II, Section 5.8.1	98	Supply of Desktop GIS and Image Processing Software	We feel that there is no requirement of image processing software for this RFP as the scope is creation of base map, data model, geo referencing, digitization and building GIS applications and integration with other GIS systems. Please clarify?	No modification in the RFP document as clause is clear in the RFP document
345	2	Volume 2 Section: 5.7.5	Page No 92	ASCL will provide necessary NOC/Approvals for procurement of Satellite Imagery to the successful bidder. Cost of the Satellite Imagery would be quoted in the Price Bid. Bidder will provide the details of Satellite Imagery proposed in the Technical Solution.	We have observed that the base map GIS data be ready by D + 4 months. As the procurement of satellite imagery is Vendor's responsibility and this task itself will take 45 to 60 days of the time the proposed time for this activity is not sufficient. Hence, request you to consider 4 months of time from the date of imagery receipt from NRSC.	No modification in the RFP document as clause is clear in the RFP document
346	2	Volume II	Page No. 92	5.7.5. Procurement of High Resolution Satellite Imagery – Pan Area	We suggest that procurement of High resolution Satellite Imagery of pan area can be obtained using drones technology for Aerial image having better resolution and features identification. Kindly consider.	No modification in the RFP document as clause is clear in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
347	1	Vol 1/ Section 7 Technical Bid Check-List	64	Manufacturers'/Producers' Authorization Form Anti-Collusion certificate	We understand Anti-Collision certificate needs to be submitted by Lead Bidder only as per format in Section 7.11. Please confirm.	No modification in the RFP document as clause is clear in the RFP document
348	2	1.2. Need for Present Assignment & Brief Scope of Work	15	MSI shall make a detailed survey of communication (OFC) network of a Service Provider & electrical supply network availability and GIS mapping of proposed locations of all CCTV cameras, Smart Bus Stops, IoT Sensors (Environment, etc.), Display Signage, Traffic Lights, Solid Waste Management Infrastructure, etc. in order complete the various components of smart city project in Agra.	We understand that OFC network details will be provided just for reference purpose. Proposed GIS mapping for smart city elements will be limited to identifying point location. These elements will be then build on new GIS platforms and it WILL NOT have any link with OFC GIS system. Please confirm our understanding	No modification in the RFP document as clause is clear in the RFP document
349	2	Volume 2 Section: 5.6.2	Page No 90	1) Updating and Creation of Base map 2) Creation of Utility Data for New Area Using CAD Drawings approx. 9 Sq.Km 3) Geo-referencing and spatially adjusting the existing town planning sheets with available with ASCL and creating new digital TP sheets for the remaining number of physical and non geo reference TP sheets 4) Integration of the readily available data with ASCL to the proposed application/system 5) Property/Consumer Survey	We understand that the utility data is currently available as CAD drawings and these need to be converted into GIS form. Please confirm.	No modification in the RFP document as clause is clear in the RFP document
350	2	Volume 2 Section: 5.6.2	Page No 90	1) Updating and Creation of Base map 2) Creation of Utility Data for New Area Using CAD Drawings approx. 9 Sq.Km 3) Geo-referencing and spatially adjusting the existing town planning sheets with available with ASCL and creating new digital TP sheets for the remaining number of physical and non geo reference TP sheets 4) Integration of the readily available data with ASCL to the proposed application/system 5) Property/Consumer Survey	We understand the scope of Data Updating and Data Creation for ABD Area - there is no field survey activity involved for spatial/graphical data updation. Except for non-spatial data survey such as property/consumer survey. kindly confirm that there is no field survey for spatial data gaps	No modification in the RFP document as clause is clear in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
351	2	Vol-II, Section - 5.6.4.	90	Implementation of Enterprise GIS Suite – Pan City : 1) Maximum No. of users on Intranet simultaneously viewing spatial data - 500 3) Maximum No. of users on Internet simultaneously viewing spatial data through ASCL Citizen web portal – 30000	We understand these are spatial data viewing users; accessing the system and the requirements are not concurrent. Although, there may not be any limitation with respect to the viewing users so the term "simultaneously" may be removed.	No modification in the RFP document as clause is clear in the RFP document
352	2	Volume 2 Section: 5.1	Page No 89	AMC for 5 years	We would like to understand the activities which need to be carried out during the AMC period, i.e. 5 Years.	No modification in the RFP document as clause is clear in the RFP document
353	2			General	What are all the document formats that need to be upload	All types of available formats
354	2	Volume 2 Section:5.10 Design and Development of Enterprise Web GIS Smart City Department Application	Page No 111	7) Shall have query based results	What GPS modules are required for the desktop? Need more clarifications	No modification in the RFP document as clause is clear in the RFP document
355	2	Volume 2 Section: 5.6.5 Integration GIS with existing, proposed system and Future Systems	Page No 91	Bidder need to Integrate GIS Platform with existing components and utilities, new implemented smart City Components and proposed in future.	What is the format of the readily available data with ASCL	MSI to coordinate with all concerned departments to get details
356	2	Volume 2 Section:1.7 10. SMS Gateway Integration:	Page No 19	SMS Gateway Integration	What is the frequency of GIS maps update?	No modification in the RFP document as clause is clear in the RFP document
357	2	Volume 2 Section: 5.7.2	Page No 91	Data Collection: Selected Bidder will collect the available maps and secondary data (if any) from ASCL (soft copy and or hard copy) namely; municipal boundary, Zone boundary, Town survey maps, Field measurement book (if available), ward boundary maps, slum related data, sanitation, and basic infra-structural facilities and land marks, details of Town Planning Schemes to be incorporated	What is the scale and projection system of various inputs source maps from different departments? What kind of challenges anticipated by department while integration of all sources with current filed data, any specific rules or guidelines to address these anticipated challenges	MSI to coordinate with all concerned departments to get details

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				superimposed / synchronized and corrected suitably to match current field data;		
358	2	Volume 2 Section: 1.6 Project Scope of Work	Page No 16	vii. Business Process Reengineering for the selected applications/ services	What kind of business process re-engineering would be required?	No modification in the RFP document as clause is clear in the RFP document
359	2	Volume 2 Section: 5.10 Design and Development of Enterprise Web GIS Smart City Department Application	Page No 111	3) Existing Server, Client, Web, Mobile / Tablets to be supported	What kind of support is required for BIM applications, please provide more details.	No modification in the RFP document as clause is clear in the RFP document
360	2			General	With what all applications are the integrations of workflow expected and how many reports are expected from workflows	No modification in the RFP document as clause is clear in the RFP document
361	2	VOL 2 3.13. No Helmet Detection System	41	8. System shall have dedicated camera units for no-helmet detection in field of view of that camera unit to be installed at identified locations within city limits. Such cameras shall be independent of existing city surveillance and traffic violation detection cameras.	Since locations for RLVD and Helmet detection are same, cameras use for RLVD system are capable of doing "NO Helmet Detection" analytic without any separate cameras requirement and hence, system will be cost effective considering huge requirement of cameras specifically for Helmet Detection. You are requested to remove the requirement of additional cameras for Helmet Detection from BOQ.	Please check the corrigendum for revised BoM
362	2	VOL 2 3.17. Technical Functions	49	Request for Addition of Evidence Camera Specification	Only ANPR camera specifications are mentioned but there is no specification for Evidence Camera which is generally of 5MP or better. Hence, requesting you to incorporate Evidence Camera specification.	Evidence cameras are same as RLVD. No modification in RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
363	2	Volume II	Page No. 79	7.10. Manufacturers'/Producers' Authorization Form We also confirm that our offered product will not be end of life for minimum of 24 months from the date of bidding and the support for such offered product/s will be available for minimum of 10 years from the date of bidding.	We understand that technical support for offer products will be for 5 years. After that available technical support for rest 5 year will cost additionally. Kindly consider.	No modification in the RFP document as clause is clear in the RFP document
364	2	Volume 2	Page 47 of 324	3.16.7. Civil and Electrical Works 1) MSI shall be responsible for carrying out all the civil work required for setting up all the field components of the system including: 2) Preparation of concrete foundation for MS-Poles & cantilevers 3) Laying of GI Pipes (B Class) complete with GI fitting 4) Hard soil deep digging and backfilling after cabling 5) Soft soil deep digging and backfilling after cabling	We understand that RI (Re- Instatement)/ROW(Right Of Way) charges shall be borne by Customer and necessary approval shall be obtained by the customer. However Bidder will facilitate necessary support .Kindly confirm. Any delay attributed to ROW(Which impacts overall schedule of the project) shall be suitable compensated. Please confirm.	All charges to be borne by MSI
365	2	General		DAK/Correspondence Management System	We understand that ASCL wants to implement solution with the use of next generation technologies in order to provide a better experience to its users. Government Departments, around the globe, are automating their workflows over Business Process Management System in order to provide more agility, ease of use, better performance and ease of adding/modifying the additional workflows. Therefore, based on our experience of working with various Govt organizations and implementing multiple e-Office projects, we strongly feel that DAK/Correspondence Management System should be built over Business Process Management and Document Management platform. Please confirm.	No modification in the RFP document as clause is clear in the RFP document
366	2		General	Network equipment safety.	We understand that all network equipments delivered by bidder at customer location should be kept under safe custody of the customer, the NW equipments should not be misplaced or damaged. In case of any device found lost or damaged than	No modification in the RFP document as clause is clear in the RFP document

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					customer has to bear the cost to replace the lost/damaged equipment. Please confirm.	
367	2	Volume II	Page No. 23	xxx. Any functionality not expressly stated in this document but required to meet the needs of the project to ensure successful operations of the system shall essentially be under the scope of MSI and for that no extra charges shall be admissible. It is also expected for MSI to have periodic upgrades of both hardware and software as part of O&M. This shall also extend to have complete technology refresh as per latest firmware and software version at the end of contractual period (shall not limit to 5 years).	We suggest that MSI to have periodic upgrades of hardware and software as part of O&M. This shall also extend to have complete technology refresh as per latest firmware and software version at the end of contractual period (shall not limit to 5 years).	No modification in the RFP document as clause is clear in the RFP document
368	2	Volume II	Page No. 25	2.3. Scope of Work 1. MSI shall study existing traffic management systems and processes deployed by the Traffic Police, MIS reporting requirements, problem areas and expectations of Agra Traffic Police.	We request you to kindly provide functionalities details like (manual /automatic process) of existing traffic management system and process deployed by the Traffic Police, MIS reporting requirements. Kindly provide.	No modification in the RFP document as clause is clear in the RFP document
369	2	Vol 2 / 9.8	242	9.8. Integrated Operation Platform (IOP)	We realize that AI chatbot module is missing in the IOP platform. We have seen AI chatbot used for Citizen engagement and to resolve Citizen Queries. AI Chatbot can automatically answer FAQs of citizens, make all online services (eGov) and ICOP services (example: Smart parking, water leakage, etc) make available to citizens intuitively over chatbot. Chatbots is already part of Nashik Smart city RFQ and we have seen AI chatbot implemented for Rajkot Smart city (http://rmc.gov.in) and Pune Municipality (https://pmc.gov.in). AI chatbots will reduce the manual helpdesk by at least 50% and increase the engagement between government and citizens. AI chatbot will have a very positive impact on citizens. Do you intend to include AI chatbot as part of IOP platform?	No modification in the RFP document

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370	2	General		Integration	<p>We assume that below are the mentioned systems, with which proposed system (Document & workflow management) shall be integrated:</p> <ol style="list-style-type: none"> 1. ICCC modules 2. ERP 3. Portal/ E-forms 4. Email/SMS gateway 5. LDAP 6. Payment Gateway 7. Biometric system 8. Aadhar 9. ESB/ Middleware 10. GIS 11. Digital Signature <p>In case of integration with any other system, please let us know system details & integration touchpoints.</p>	All current and future integrations to be considered.
371	2		General	Training	<p>Trainig will be conducted at central location purposed by the customer. Customer has to make all the arrangement for the trainees at their location. Please confirm.</p>	No modification in the RFP document as clause is clear in the RFP document
372	2	General		Mobile APP Specifications	<p>Today, mobile governance is one of the key focus of government departments. In order to ease the access of the documents for the internal users, we recommend the Mobile app for tracking files, capturing documents, viewing, approval, rejection and searching of files should be provided as part of the solution.</p> <p>Please confirm</p>	No modification in the RFP document as clause is clear in the RFP document
373	2	Volume II : Scope of Work 1.5 Project Objectives	15	<p>Smart Policing and Integrated Module</p> <ol style="list-style-type: none"> i. Crime and Criminal Tracking Network and Systems (CCTNS) ii. e-Prison iii. e-Courts iv. Interoperable Criminal Justice Systems (iCJS) v. Shall be able to integrate directly or through bridge with all available applications which are launched by Government of UP 	<p>The Smart Policing and Integrated Module will be a separate solution with integration to these 5 systems/services as mentioned?</p> <p>Please clarify and elaborate.</p>	These are integration components

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374	2	VOL II – Section 1.7	17	Finalization and submission of a detailed technical architecture	<p>The RFP specifies scope for Integration amongst various Business Applications. Please confirm that the bidder shall propose an Industry leading Enterprise ESB Solution.</p> <p>It is highly recommended to have an enterprise service bus / SOA architecture considering existing and future integrations.</p>	No modification in the RFP document as clause is clear in the RFP document
375	2		General	SLA calculation	SLA/downtime calculation will be done basis the trouble ticket raised by the customer with the bidder. Bidder will share the monthly uptime report with customer where all the SR will be captured along with detailed RFO/RCA.	No modification in the RFP document as clause is clear in the RFP document
376	2	Volume 2: Scope of Work	Page 49 of 324	5) MSI shall ensure all the equipment's installed in the outdoor locations are vandal proof and in case the equipment get damaged /stolen for reasons whatsoever, it shall repair/replace the same in the specified time as per SLAs at no extra cost to the Purchaser. All such costs shall be factored in the comprehensive insurance of field equipment for the duration of the contract.	<p>Since this is unplanned and out of control of bidder. Hence we request you to change it as MSI shall ensure all the equipment's installed in the outdoor locations are vandal proof and in case the equipment get damaged /stolen for reasons whatsoever, it shall repair/replace the same in the as soon as possible specified time as per SLAs at no extra cost to the Purchaser. All such costs shall be factored in the comprehensive insurance of field equipment for the duration of the contract.</p>	No modification in the RFP document as clause is clear in the RFP document
377	2		General	Delivery and signed off report	Scanned copy of the delivery and signed off document will be shared with the customer on mail. No hardcopy will be shared.	No modification in the RFP document as clause is clear in the RFP document
378	2	Page 132/ Vol 2		Helpdesk solution must have a built-in workflow engine to define escalations or tasks to be carried out after issues or change order are logged pertaining to surveillance project.	<p>Request you to include the following specification to ensure best of breed solution for the Workflow Management System.</p> <p>Workflow management system should be compliant to workflow standards: BPMN, BPEL and WFMC</p>	MSI to define the Workflow Management System as per designed Architecture
379	2	Vol. 2, Data Centre (DC) and Disaster Recovery (DR) Centre	122-123	Disaster Recovery Centre will be 50% of Data Centre Site, V. The Selected bidder will have to demonstrate the DR site to run on thirty percent capacity for proving successful implementation of the DR site.	Please provide the clarification on the capacity to be consider 30 or 50%?	<p>No modification in the RFP document as clause is clear in the RFP document.</p> <p>50% Compute and 100% Storage</p>

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380	2	Vol 2,- 7.3. DR Plan and Implementation	125	In the event of a site failover or switchover, DR site will take over the active role, and all the requests will be routed through that site. Application data and application states will be replicated between data centers so that when an outage occurs, failover to the surviving data center can be accomplished within the specified RTO. <u>This is the period during which the Compute environment for the application shall be equivalent to DC.</u> The installed application instance and the database shall be usable and the same SLAs as DC shall be provided. The use of this Full Compute DR environment can be for specific periods during a year for the purposes of DC failure or DR Drills or DC maintenance or DC Major Software Upgrades or DC High Peak Load Support.	Both the clauses are contradictory. Hence kindly delete the highlighted clause.	It is not contradictory as the compute environment / ecosystem is been asked for equivalent to DC @50% which will have 100% Data and Storage Replication.
381	2	Volume 2	21	1.8. Other expectations from MSI : d) Size and provision the internet connectivity for Service Provider network and Network Backbone.	Please specify the Internet bandwidth size availability at DC and DR. Also requirement of Inside public IP pool size?	No change. MSI to decide
382	2	VOL - II , 1.8. Other expectations from MSI	21	The software licenses shall not be restricted based on location and ASCL shall have the flexibility to use the software licenses for other requirements if required	Please specify for which other requirements ASCL would intended to use software licenses . Typically OEM will not allow this	No modification in the RFP document as clause is clear in the RFP document
383	2	Vol 2	131	MSI shall establish dedicated connectivity between DC & DR Site for replication & failover	Please share specifications, if any, for DC-DR replication link (Latency expected / Layer-2 Ethernet Leased Line / Layer-1 EoSDH)	MSI shall design the complete Architecture. Technical specifications for the architecture has been provided.
384	2	vol 2 / 1.8. Other expectations from MSI	20	MSI shall Install and commission connectivity across all designated locations	Please provide the list of all locations with detailed address.	MSI to finalize the layer architecture as per locations provided in Annexures for all edge devices and systems to get connected
385	2	General		Data Migration	Please provide clarity on the volume and format of data that needs to be migrated from the legacy application to the proposed application.	No modification in the RFP document as clause is clear in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
386	2	General		Implementation Phase User Training	Please provide clarity on the number of users to be trained on the new application.	Will be decided as per resources aligned by MSI and ASCL
387	2	Volume 2	21	1.8. Other expectations from MSI : k) MSI shall provide for all required features like support for multiple routing protocols, congestion management mechanisms and Quality of Service support. l) MSI shall ensure that all active equipment (components) are Simple Network Management Protocol (SNMP) V3 compliant and are available for maintenance/management through SNMP from the date of installation by a Network Monitoring System.	Please provide all the details of traffic engineering \ routing protocol \ QoS \ network management via SNMP details. Please also specify here the last mile interface required at DC \ DR \ Spoke locations.	No change. MSI to decide
388	2	Volume 2, Single-Sign On:	18	The application should enable single-sign-on so that any user once authenticated and authorized by system is not required to be re-authorized for completing any of the services in the same session. For employees of the department concerned, the browser based application accessed on the intranet, through single-sign-on mechanism, will provide access to all the services of the departments concerned (based on their roles and responsibilities), Help module, basic and advanced reporting etc. Similarly, for external users (citizens, etc.), based on their profile and registration, the system shall enable single-sign on facility to apply for various services, make payments, submit queries /complaints and check status of their applications.	Please confirm the scope of federation Solution. Provide the number of concurrent number of users accessing the application. Expected number of systems to be protected ?	MSI to finalize based on number of nodes calculated
389	2	Volume 2, Security:	18	Solution shall support advanced user authentication mechanisms including digital certificates and biometric registration through Aadhar Database whereas authentication post registration can be local.	Please confirm that dongle or DSC required for Digital Signature solution will be procured by ASCL	To be procured by MSI
390	2		General	Power and earthing	Please confirm proper Space, UPS power supply and earthing arrangement for the bidder network devices will be arranged by customer.	No change. MSI to decide

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
391	2		General	Site access and permission.	Please confirm all kind of permission/access at site from feasibility check to link delivery will be arranged by customer. Please confirm that inbuilding internal cable routing from false ceiling and POP wall will be customer scope of work.	No change. MSI to decide
392	2	vol-2	205	It is proposed that a Network Operations Centre (hereinafter referred to as "NOC") shall be established for monitoring the network infrastructure through which the connectivity to be established with Service Provider	Please clarify the location of NoC	NoC shall be part of ICCC
393	2	Volume II: Scope of Work 7.2. Design, Configuration, Installation and Commissioning of DC and DR	124	26. Video feeds shall be stored for 30 days online/real-time and shall be securely archived for 1 year which is flagged or is registered in evidence. The transaction data for minimum 1 year shall also be stored within the Data Centre infrastructure.	Please share the following information for estimation of the video feed storage size & bandwidth size 1. Please provide camera bitrate /resolution/frame rate at which the Surveillance CCTV cameras are to be RECORDED. 2. Please provide camera bitrate /resolution/frame rate at which the Surveillance CCTV cameras are to be VIEWED at ICCC. 3. At a moment of time how many cameras to be viewed at ICCC? This is important for Bandwidth considerations	Specifications of all desired components are provided in the RFP document.
394	2		General	Penalty & LD	Penalty and LD should be applicable on ARC value of the pending work to deliver.	No change
395	2	General		Masters	Our understanding is that the proposed solution should need Master Data Management system where users can manage the masters through a GUI. Please confirm our understanding is correct.	No modification in the RFP document as clause is clear in the RFP document
396	2	General		Workflow Capabilities	Our recommendation is that the Workflow Management System should be based on Business Process Management (BPM) platform which has 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. A workflow engine to support different types of document routing mechanism including Sequential routing, Parallel routing,	MSI to finalize and optimize the architecture as per specifications provided

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					Rule based & Ad-hoc routing	
397	2	RFP Volume II/Features of NOC	206	<p>Features of NOC</p> <p>1) Incident Management based on resource workload, incident category etc.</p> <p>2) Tracking and reporting of all contractual SLAs in an automated way.</p> <p>3) Updateable knowledge base for technical analysis and further help end-users to search solutions for previously solved issues.</p> <p>4) The NOC shall escalate issues in a hierarchical manner, so if an issue is not resolved in a specific timeframe, the next level is informed to speed up problem remediation.</p>	<p>Detecting intrusions, assessing the extent of the compromise requires right level of assistance to remediate the problem. We suggest to include incident management. It allows ASCL to be proactive in preparing for and responding to security incidents with following scope/features.</p> <ul style="list-style-type: none"> - Assess existing ability to respond to security incidents and provide recommendations to shrink the time between incident detection and resolution, ultimately reducing the probability and severity of future incidents - have a 24-hour SLA for having incident responders in-transit and pre-pay for 15 man-investigation time. - Should include an on-site readiness service, pre-negotiated terms and conditions and options to pre-purchase fly to site service periods and SLAs - Have Readiness and assessment services 	Operational requirement should be manage by MSI measuring defined SLAs
398	2		General	SLA penalty	<p>NO SLA penalty will be applicable on bidder incase the location is down due to</p> <ol style="list-style-type: none"> 1) Power issue at customer end. 2) Improper earthing at site. 3) Equipment damaged due to water seepage. 4) Access not available at site for the bidder engineer to check the issue. 5) LC not available at site. 6) Any condition which is beyond the control of bidder. 	No modification in the RFP document as clause is clear in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
399	2	Vol-2	Page-240	<p>9.7. Forensic Investigation Room</p> <p>1) Analysis in CCC would be graphical user interface for search, replay and to simultaneously search and replay recorded video feeds, recorded telephone systems, VOIP, Screen recording, GPS data on GIS maps, conventional and digital radio channels as well as trunked radio communications.</p> <p>All communications regarding a specific incident should be replayed together in the sequence in which communications occurred on a synchronized timeline to support time coded playback of event. The solution should support event logs including operator's onscreen activities, voice & video events, etc. for further analysis, training and similar activities.</p>	Kindly remove the clause as it is OEM Specific and amend the clause as- "Collaboration Tools" "Should provide tools for users to collaborate & communicate in real-time using instant messaging features."	No modification in the RFP document as clause is clear in the RFP document
400	2	General	General	General	Kindly provide the layout and drawings of CCC .	No modification in the RFP document as details available in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
401	2	VOL II – Section 1.7	17	Finalization and submission of a detailed technical architecture	<p>Kindly confirm that various system software proposed as part of an application platform shall be replaceable and should not cause any vendor lock-in. The bidder shall not propose an application platform/bundle which enforces vendor lock-in eg that platform/bundle uses only specific OEM products in that bundle that too with restricted use only for that limited application.</p> <p>The bidders shall not propose any restricted use lock-in bundles/platforms for the smart city project.</p> <p>Kindly confirm that the bidder shall propose full use license/subscription of various industry leading middleware software i.e. Integration Server, API management , Application Server, RDBMS etc instead of using any restrictive bundle as part of any Platform. The proposed Platform shall support multiple choices for the middleware software instead of any vendor lock-in.</p> <p>The Authority shall be able to use these OEM Middleware software i.e. ESB, API Management, RDBMS, Application server even if it decides to change or discard the platform/bundle also at a later date.</p>	No modification in the RFP document as details available in the RFP
402	2	VOL II – Section 1.8	20	Other expectations from MSI	Kindly confirm if the OEM Software license/subscription shall allow the software to be deployed on physical, virtual or cloud based servers.	No modification in the RFP document as clause is clear in the RFP document
403	2	Volume II: 3.3 System Architecture	34	System Architecture Diagram	Kindly Clarify why Fixed and PTZ Cameras are connected with LPU.	This is only indicative system architecture

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
404	2	Vol. 2, Section 3.15.4	44	Considering the need of immediate response system for Police to detect and identify the event, with the upcoming technology advancement, it requires a basic infra in terms of OFC to have all the major Police Stations and Chowkis connected in a mesh for faster resolution of event. This should be accompany with basic peripherals like Smart Phones, Tablets, High End Computers and Screens for local monitoring the visuals.	Kindly clarify whether MSI needs to provide smart phones, tablets, high end computers and screens at the identified police stations and chowkis. If yes, request to provide exact quantity along with minimum specifications and request to include the same in the Bill of Material.	Please check the corrigendum for revised BoM
405	2	8.2 Designer Acoustic Metal False ceiling with Planks	228	j. The Ceiling must be Seismically Certified (from UL/Intertek). Certificate to be submitted along with the technical Bid)	j. The Ceiling must be Seismically Certified (from UL/Intertek/Govt. Approved test Lab). Certificate to be submitted along with the technical Bid). We suggest to kindly accept govt. approved test labs for seismic testing.	In principle agreement
406	2	VOL II – Section 12	301	Handholding and Training	It is more recommended to have trainings delivered by industry certified experts. Request you to please clarify & confirm that OEM training to be considered as part of technical training requirement for products and solutions required in RFP	No modification in the RFP document as clause is clear in the RFP document
407	2	Volume 2, Section 9.15: Technical Specification (Video Content Analytics, VAS 016)	280	Video Content Analytics	It appears RFP is asking to install Intelligent Video analytics software on the camera which is not possible. Please revise this as "Definable and available triggers should be for citywide surveillance, system needs to have capability to deploy intelligent video analytics software on any selected edge/field device and associated cameras.	No modification in the RFP document as clause is clear in the RFP document
408	2	Vol-2, 1.8. Other expectations from MSI	21	xxiii. MSI shall directly interact with electricity boards for provision of mains power supply at all desired locations for any Field Infrastructure solution. ASCL shall facilitate, if any documentation is required from its side. MSI shall be responsible for provisioning of requisite electricity power and its recurring charges (during operational phase). MSI may provision the same under appropriate heads in the commercial bid.	In this regard, requesting you kindly amend the clause like: ASCL shall be responsible for provisioning of requisite electricity power and its recurring charges (during operational phase).	No modification in the RFP document as clause is clear in the RFP document, Although all cost to be borne by MSI

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409	2	Vol 2/1.5 Project Objectives	15	7) Integration with all existing, proposed and future services as identified by Agra Smart City limited (ASCL) in the city including but not limited to iii. Intelligent Transport Management System v. Smart Parking	In order to integrate ITMS and Smart Parking, the scope of ITMS and Smart Parking is not mentioned in RFP.	Smart Parking is only integration component in the future
410	2		General	First level troubleshooting	In case of connectivity down, FLT will be done by the customer spoke available at site. No downtime will be attribute to bidder incase the local person is not available at site or on site access is not available for the bidder engineer to check after the FLT.	No modification in the RFP document as clause is clear in the RFP document
411	2		General	Site readiness/Shifting /change in location	Customer has to ensure the site readiness before bidder depute engineer at site for installation. In case the site is not found ready by the engineer then engineer revisit cost will be borne by customer. Delay due to site readniess will not be consider under the delivery time lines. Charges will be applicable incase the shifting request is received from customer after the link delivery. Customer has to release the LOC for the delivered link and than shifting PO will be placed to bidder. Shifting time lines will be confirm as per the feasibility.	No modification in the RFP document as clause is clear in the RFP document
412	2	Vol_2 Point xxiii.	21	MSI shall directly interact with electricity boards for provision of mains power supply at all desired locations for any Field Infrastructure solution. ASCL shall facilitate, if any documentation is required from its side. MSI shall be responsible for provisioning of requisite electricity power and its recurring charges (during operational phase). MSI may provision the same under appropriate heads in the commercial bid.	Charges governed by Electricity regulatory authority which can not be committed overall project period in Commercial Bid, we request you to please add clause "Payment will made on monthly running bills at actuals of Electricity cost.	No modification in the RFP document as clause is clear in the RFP document
413	2		General	Payment	Bidder should be allowed to start billing immediately after getting the LOC from the date of link acceptance. Please confirm.	No modification in the RFP document as clause is clear in the RFP document
414	2		General	Acceptance criteria	Acceptance will be link wise within 24-48 hours of delivery and acceptance criteria will be ping test to from remote location to DC or DR or CCC.	No modification in the RFP document as clause is clear in the RFP document

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					Please confirm.	
415	2	Volume II : Scope of Work 9.1. Overview 9.7. Forensic Investigation Room	240	1) Analysis in CCC would be graphical user interface for search, replay and to simultaneously search and replay recorded video feeds, recorded telephone systems, VOIP, Screen recording, GPS data on GIS maps, conventional and digital radio channels as well as trunked radio communications. All communications regarding a specific incident should be replayed together in the sequence in which communications occurred on a synchronized timeline to support time coded playback of event. The solution should support event logs including operator's onscreen activities, voice & video events, etc. for further analysis, training and similar activities.	1) How many Telephony Channels need to be considered for recording? 2) How many digital Radio Channels to be considered for recording? 3) How many Operator screens (for Screen Recording) need to be considered?	Please check the corrigendum for revised BoM
416	2	Privileged Identity Management	Pg 183	Privileged Identity Management	What is the total count of servers and end points of the system intended for Privileged Account Management	Please check the corrigendum for revised BoM
417	2	Volume II: 10. Cyber Security Requirement – Smart City Framework	296	26. The following should be implemented in the data Centre – Firewalls, Intrusion detection & intrusion prevention system , Web Application Firewalls, Behavioral Analysis system for anomaly detection, correlation engine, Denial of Service prevention device, Advanced persistent. Threat Notification mechanism, federated identity and access management system etc. 27. Security information and Event Management (SIEM) monitoring on all smart city Networks devices and sensors to identify malicious traffic.	As per the Clause 10 Cyber Security Requirements we need to consider Cyber security requirements for ,Web Application Firewalls, Denial of Service prevention device, Advanced persistent. Threat Notification mechanism, federated identity and access management system & SIEM .which may require the additional Cost Request you to provide us the line item to be considered in Bill of Material and also Provide the Technical Specifications for the Same	Please check the corrigendum for specifications and revision in BoM

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418	2	Vol_2 14. Payment Terms and Schedule	304	<p>Phase I (T+2 Months) Advance - 10% of contract value Upon finalization SRS, FRS & SDD - As completed 10% of contract value</p> <p>Phase II (T + 6 Months) On Supply, Installation and Commissioning of each component - As completed 20 % of contract value of each component</p> <p>Phase III (T + 9 Months) After 3 Months Testing & Go Live of all components - As completed 20% of contract value of each component</p> <p>Phase IV (T1 + 60 Months) Operations & Maintenance of 60 months from the date of Go Live - 40% of Contract Value in equal quarterly instalments to be paid over a period of 60 months · T is the date of signing of contract · T1 is the date of Go Live</p>	<p>The project entails high CAPEX investment, we request you to relax the payment terms to enable the bidders to offer competitive pricing.</p> <ol style="list-style-type: none"> 1. Requirement Study - T + 2 Months - 10% of Capex value 2. Supply of HW & SW - 50% of Total CAPEX Price 3. Installation of HW/Infrastructure, SW Phase & Report - 15% of Total CAPEX Price 4. Completion of Integration - 15% of Total CAPEX Price 5. UAT, FAT, STQC, Go-Live Strategy and Planning, Training, Capacity Building and Standard Operating Procedure - 5% of Total CAPEX Price 6. Go-Live (G) - 5% of Total CAPEX Price 7. Project Operations & Maintenance phase for a period of 60 months from the date of Final Go Live - T1+60 Months - OPEX will be paid in twenty (20) equal quarterly instalments spread across 5 years Post Final Go-Live 	No modification in the RFP document as clause is clear in the RFP document
419	2	Volume 2, 14. Payment Terms and Schedule	304	<p><u>A Phase I</u> 1. Advance On resource mobilisation = 10% of contract value 2. Upon finalization SRS, FRS & SDD (T+2 Months) = As completed 10% of contract value</p> <p><u>B Phase II</u> 3. On Supply, Installation and Commissioning of each component (T + 6 Months) = As completed 20 % of contract value of each component</p> <p><u>C Phase III</u> 4. After 3 Months Testing & Go Live of all components (T + 9 Months) = As completed 20% of contract value of each component</p> <p><u>D Phase IV</u> 5. Operations & Maintenance of 60 months from the date of Go Live (T1 + 60) Months = 40% of Contract Value in equal</p>	<p>Please modify payment structure as below to have smooth cash flow during implementation:-</p> <p><u>A Phase I</u> 1. Advance On resource mobilisation = 10% of contract value 2. Upon finalization SRS, FRS & SDD (T+2 Months) = As completed 15% of contract value</p> <p><u>B Phase II</u> 3. On Supply, Installation and Commissioning of each component (T + 6 Months) = As completed 20 % of contract value of each component</p> <p><u>C Phase III</u> 4. After 3 Months Testing & Go Live of all components (T + 9 Months) = As completed 15% of contract value of each component</p> <p><u>D Phase IV</u> 5. Operations & Maintenance of 60 months from the date of Go Live (T1 + 60) Months = 40% of Contract Value in equal quarterly instalments to be paid over a period of 60 months</p>	No modification in the RFP document as clause is clear in the RFP document

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				quarterly instalments to be paid over a period of 60 months		
420	2	Volume 2	Page 304 of 324	Payment Terms and Schedule Advance- 10% of contract value Phase I-T+2 Months-As completed 10% of contract value Phase II-T+T + 6 Months- As completed 20 % of contract value of each component Phase III-T+9 Months- As completed 20% of contract value of each component Phase IV-T1 + 60 Months-40% of Contract Value in equal quarterly instalments to be paid over a period of 60 months	We request you to amend the clause as mentioned below Payment Terms and Schedule Advance- 10% of contract value Phase I-T+2 Months-As completed 10% of contract value Phase II-T+T + 6 Months- As completed 30 % of contract value of each component Phase III-T+9 Months- As completed 20% of contract value of each component Phase IV-T1 + 60 Months- 30% of Contract Value in equal quarterly instalments to be paid over a period of 60 months	No modification in the RFP document as clause is clear in the RFP document
421	2	Privileged Identity Management	Pg 183	The solution should also support multifactor authentication while logging in utilizing tokens, OTP and passphrases	What are the different methods of advanced authentication to be used and what all scenarios to be used for advanced authentication i.e. SMS or Mail OTP, fingerprint, etc	MSI to define complete Architecture and provide different levels of Authentication
422	2	3.17. Technical Functions S. Face Recognition System	68	To be added	Technical specifications of the FRS system is not mentioned in the tender, please help to provide the same.	No modification in the RFP document as clause is clear in the RFP document
423	2	Volume 2/3.12 Face Recognition System	40	Functional Requirements	Request ASCL to consider NIST FIVE benchmarking as a suitable benchmark for assessing the speed and accuracy of FRS - "Proposed face recognition software should have participated in the latest NIST (National Institute of Standards and Technology) Face in Video Evaluation (FIVE). The vendor shall submit the latest NIST evaluation report for the algorithm with its own name."	No modification in the RFP document as clause is clear in the RFP document
424	2	Volume 2/3.12 Face Recognition System/ Point 25	41	The OEM should have support facility in India	Request ASCL to consider below FRS OEM credentials - 1. OEM should have registered office in India since last 5 years along with positive net worth in last 3 years. 2. Proposed software should have been implemented in Indian environment in at least two city surveillance projects with min 10 FRS	No modification in the RFP document as clause is clear in the RFP document

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					cameras. City surveillance project should have at least 1000 cameras installed in each of the project.	
425	2	Volume II: X. Privileged Identity Management	181	X. Privileged Identity Management	As per the Cyber Security Requirements X. Privileged Identity Management should be Considered and Specifications is provided but the same is not Captured in Bill of Material	MSI to derive number of nodes getting after the Architecture is designed and finalized
426	2	Volume II: 3.12 Face Recognition system	39	Face Recognition system	Kindly Clarify the specification for FRS is live Monitoring FRS system or Post event analysis FRS. Because specification given for both.	No modification in the RFP document as clause is clear in the RFP document
427	2	Volume II: 3.12 Face Recognition system	39	The facial recognition system should be accessible from 5 different desktop/laptops at any given time. When choosing a distributed architecture, the system shall be able to completely centralize the events and galleries from each local station into a unique central station, devoted to management and supervision.	Kindly clarify the mentioned FRS needs to be integrated with ICCC or dedicated Desktop based FRS is required.	No modification in the RFP document as clause is clear in the RFP document
428	2	Volume_2: Scope of Work 3.12. Face Recognition System	39	4. The system shall be able to: 3) Match suspected criminal face from pre-recorded video feeds obtained from CCTVs deployed in various critical identified locations, or with the video feeds received from private or other public organization's video feeds.	It is recommend to match the face image of the criminal with the video feeds in the system, thus, requesting to remove the clause.	No modification in the RFP document as clause is clear in the RFP document
429	2	Volume_2: Scope of Work 3.12. Face Recognition System	41	Functional requirement – 16. The system should be able to support diverse industry standard graphic and video formats as well as live cameras	It is recommended that the system support standard graphic and video formats so that it will be easily integrated with the software, thus, requesting to amend the clause to: The system should be able to support standard graphic and video formats as well as live cameras	No modification in the RFP document as clause is clear in the RFP document
430	2	3.17. Technical Functions S. Face Recognition System FRS.016	67	The system should be able to support diverse industry standard graphic and video formats as well as live cameras	It is recommended that the system support standard graphic and video formats so that it will be easily integrated with the software, thus, requesting to amend the clause to: The system should be able to support standard graphic and video formats as well as live cameras	No modification in the RFP document as clause is clear in the RFP document

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431	2	3.17. Technical Functions S. Face Recognition System FRS.003	66	The user interface of the facial recognition system should have a report management tool without installation of any additional client software. It should be able to generate real time report such as Audit log report, Hit List Report, Daily Statistics Report, and Distribution Report.	It is not possible to have remote management tool without installation of any additional software, but can be done by Web Client, thus, requesting to amend the clause to: The user interface of the facial recognition system should have a report management tool on the Web client. It should be able to generate real time report such as Audit log report, Hit List Report, Daily Statistics Report, and Distribution Report.	No modification in the RFP document as clause is clear in the RFP document
432	2	Volume_2: Scope of Work 3.12. Face Recognition System	40	The user interface of the facial recognition system should have a report management tool without installation of any additional client software. It should be able to generate real time report such as Audit log report, Hit List Report, Daily Statistics Report, and Distribution Report.	It is not possible to have remote management tool without installation of any additional software, but can be done by Web Client, thus, requesting to amend the clause to: The user interface of the facial recognition system should have a report management tool on the Web client. It should be able to generate real time report such as Audit log report, Hit List Report, Daily Statistics Report, and Distribution Report.	No modification in the RFP document as clause is clear in the RFP document
433	2	3.17. Technical Functions S. Face Recognition System FRS.001	66	General Requirements: Facial recognition system should be able to integrate with IP Video Cameras as required in the solution and shall be able to identify multiple persons of interest in real-time, through leading-edge face recognition technology. The system shall be able to recognize subjects appearing simultaneously in multiple live video streams retrieved from IP surveillance cameras. The Facial recognition system should seamlessly be integrated to the network video recorders and the video management system.	FRS system requires IP face recognition cameras to perform the face recognition feature, thus, requesting to amend the clause to : Facial recognition system should be able to integrate with IP Video Cameras as required in the solution and shall be able to identify multiple persons of interest in real-time, through leading-edge face recognition technology. The system shall be able to recognize subjects appearing simultaneously in multiple live video streams retrieved from IP face recognition cameras. The Facial recognition system should seamlessly be integrated to the network video recorders and the video management system.	No modification in the RFP document as clause is clear in the RFP document
434	2	Volume_2: Scope of Work 3.12. Face Recognition System	40	Functional requirement – 8. The system should have combination of eye-zone extraction and facial recognition	Face recognition solution purely works on face capture, face detection and its comparison, not by eye zone extraction, thus, requesting to remove the clause.	No modification in the RFP document as clause is clear in the RFP document
435	2	3.17. Technical Functions S. Face Recognition System FRS.008	67	The system should have combination of eye-zone extraction and facial recognition	Face recognition solution purely works on face capture, face detection and its comparison, not by eye zone extraction, thus, requesting to remove the clause.	No modification in the RFP document as clause is clear in the RFP document

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436	2	Volume_2: Scope of Work 3.12. Face Recognition System	41	The system should have the facility to categorize the images like "Remember this person" or "hit-list" or "wanted".	By comparing the wanted face from the FRS library the purpose can be served, thus, requesting to remove the clause.	No modification in the RFP document as clause is clear in the RFP document
437	2	Volume 2, Section 6.3. Technical Specifications	120	1. Measurement parameters and range (must measure required ranges) PM 2.5: 0 to 600 micrograms / m3 O3: 0 - 5 ppm (minimum detection 10 ppb) Light: up to 50,000 Lux UV Radiation: up to 50,000 uW/cm2 Noise: up to 135 dB (A) Rainfall Monitoring : in inch/mm of rain per day (Upto 40 inch)	As per Indian Standards the requirements for certain components is high. Kindly reduce the range for PM2.5, O3, Light, UV Radiation and Rainfall Monitoring.	No modification in the RFP document as clause is clear in the RFP document
438	2	General		Requirement for Enterprise Mobility Framework	<p>As per mentioned in the RFP document, all the important features and functionalities should be made available through the mobile application We understand that there is a requirement for a Mobility framework which can help in designing the native mobile app.</p> <p>However these days, a technologically superior alternative would be to go with Mobility Frameworks which helps in hybrid mobile apps designing which can run on multiple platforms like iOS, Android, Windows etc. It also facilitates creation of new mobile apps in a quick time which can also be modified very easily without actually knowing the coding behind it. So it will allow departmental champion users to make some specific changes in the Mobile app through configuration, wherever required.</p> <p>So our recommendation is that the departments should go for a Enterprise Mobility framework which has the capability of designing the hybrid mobile application which can run on any of the leading mobile platforms such as Android, iOS, Windows.</p> <p>Please confirm our understanding.</p>	MSI to finalize and optimize the architecture as per specifications mentioned in the RFP document

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439	2	General		Requirement of Imaging capabilities in Enterprise Mobility Framework	<p>As mobile apps would be used for capturing various documents/images. So imaging features become the important requirement of mobile application framework. So our recommendation is that mobile application framework should have below mentioned features:-</p> <ul style="list-style-type: none"> a. Image compression, B/w conversion from color images b. G4 compression for B&W, JPEG for color and gray scale c. Multiple page document capture d. Auto cropping, Auto orientation, perspective correction, noise removal, geo capture <p>Please confirm our understanding.</p>	MSI to finalize and optimize the architecture as per specifications mentioned in the RFP document
440	2	General		Scanning	<p>We understand that less paper initiative is key requirement of project and so there will be requirement of capture solution for scanning paper documents with support for following :</p> <ul style="list-style-type: none"> • Both bulk and web scan capabilities • Automatic extraction of data using OCR • Automatic file and document separation using blank page separator, barcode separator and fix page • Automatic correction of parameters like improper resolution, format/ compression not proper, skew, wrong orientation, error in automatic cropping, punch hole marks etc during scanning <p>Please confirm if our understanding is correct.</p>	No modification in the RFP document as clause is clear in the RFP document

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441	2	General		Retention period of Documents/Files	<p>The system should have the capability to retain the physical copies of documents/files for a certain duration according to the mandate of Govt of India. So with this our understanding is that the department requires the integrated Records Management System which has the below mentioned capabilities:</p> <p>a. Capability to define retention policy, disposition policy etc b. Capability to capture details about the electronic as well physical records including warehouse location, box no etc. c. Capability to track Physical records movement d. Compliance with standards like DoD 5015.2, ISO 15489, VERS etc.</p> <p>Please confirm the retention period for these documents.</p>	No modification in the RFP document as clause is clear in the RFP document
442	2	General		File Tracking System	<p>The functioning of the Govt. is through documents, files and correspondences. The process to be followed is defined in manual of procedures which is strictly followed. The Department of Archives and Public Grievances (DARPG) has also published Manual of Office Procedures (MOP), which specifies minimum requirements that the system should have in order to automate the internal workflows of the department like File Management, Dak Management, etc. Therefore, we strongly feel that following features should also be part of the required File Management System:</p> <ul style="list-style-type: none"> • File Management System should be based on Manual of office Procedure (MOP from DARPG- Department of Administrative Reforms And Public Grievances) • File Management System should be built over Business Process Management and Document Management platform. • Should have features like Green Note Sheet, flagging/linking of notes, securing notes and putting annotations on the document. • Electronic file creation, management, movement 	No modification in the RFP document as clause is clear in the RFP document

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					and performance of related tasks like diary entry, indexing, noting, cross referencing, search/ retrieval, etc.	
443	2	General		Scalable Solution	So with respect to the requirement, we suggest that the department should look out for a proven solution wrt to the scalability and the volume. So the department should look for a Document Management System which has at least one live implementation site in India in Govt/PSU with more than 10 crores document archived in document management repository with more than 5000 users using this Document Management System	No modification in the RFP document as clause is clear in the RFP document
444	2	General		Scalability	Request you to include the following specification to ensure best of breed solution and this will also enhance the scalability of proposed Content & document management module : The system should store only index information in database while images should be stored in separate file server. DMS should be designed for storing high volumes. DMS should store image and binary document in a separate file server and not in RDBMS.	No modification in the RFP document as clause is clear in the RFP document
445	2	General		Document Management System	Document Management System should have an inbuilt viewer to view various document formats. Request you to include the following specification to ensure best of breed solution for the Document Viewer. - Server based Inbuilt Document Image Viewer for displaying image document without native viewer - Viewer should be platform independent and support Linux based browser - Support comprehensive annotation features like highlighting, marking text, underlining putting sticky notes on documents, and support for text and image stamps etc. - Automatic stamping of annotations with user name, date and time of putting annotations - Securing annotations for selective users	No modification in the RFP document as clause is clear in the RFP document

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446	2	General		Document Management System	<p>Document Management System (DMS) would be one of the most important system in this project because all the workflows would be highly document intensive and would require a robust Document Management System at the backend. There we recommend that the proposed DMS should have the below mentioned features:</p> <ul style="list-style-type: none"> • DMS should be scalable enough to manage millions of documents without effecting the performance of the system. • Categorization of documents in folders-subfolders just like windows interface. There should not be any limit on the number of folder and levels of sub folder. • Web based rights management for granting user/group/role based access to various functionalities. • Server based Inbuilt Document Image Viewer for displaying image document without native viewer and stamping annotations on the documents like highlighting, marking text, underlining putting sticky notes on documents, and support for text and image stamps etc. Please confirm. 	No modification in the RFP document as clause is clear in the RFP document
447	2	General		RTI	<p>As per our experience of working with the Government Organisations, RTI management is of the key administrative activity in the government departments. Therefore, we recommend that the department should have a RTI Management module based on Business Process Management platform with the following features:</p> <ul style="list-style-type: none"> • Ability to record incoming RTI queries into the system. • Ability to upload the documents along with the queries. • Ability to route the RTI queries to different department users. • Ability to send the response of the queries to the Applicant who had filed the RTI. • Ability to reopen old RTI request in case of First and Second RTI Appeal. 	MSI to finalize and optimize the architecture as per specifications provided

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448	2	Volume II: 7.12. Unified Collaboration Solution	182	7.12. Unified Collaboration Solution A. Soft Phone Specifications B. Integrated HD Video Conferencing unit with built in HD display, Audio System and Microphone C. Three Screen Telepresence System D. IP PBX Specifications E. High Definition Multipoint Control Unit (MCU) Specifications F. IP Phones	As per the Technical Specifications Details Provided for 7.12. Unified Collaboration Solution A. Soft Phone Specifications, C. Three Screen Telepresence System, E. High Definition Multipoint Control Unit (MCU) Specifications is given but same is not Captured in the Bill of Material, Kindly Provide the Same in the Bill of material	No Change
449	2	A : Soft Phone Specifications	183	Group chat: UC Client must allow users to define custom groups with support upto 600 groups. A group chat session must support up to 1000 users.	It is practically not possible to create so high no of Groups with users. Usually approx 15-20 Groups with 50-60 users should be included	No Change
450	2	Volume 2 / Section 7.12 Unified Collaboration Solution (B)	-	<ul style="list-style-type: none"> • Sr No-1, Set Delivered Complete With, "The system should be an integrated system with Codec, Dual HD 1080p camera with 20x total zoom or higher, Mic, touch screen/ panel, cables and power supply, single 65" or higher LCD/LED and a floor mount kit." • Sr No-2, Set Delivered Complete With, "The 65" screens, codec, cameras, microphones, floor cum wall mounted kit should be from same OEM with a single OEM part code. The system should not be a locally fabricated unit." • Sr No-4, Set Delivered Complete With, "The system should deliver 1080p@60fps in motion and in sharpness video mode day one." • Sr No-11, Video Inputs, "Must have a total of at least 4 HD inputs." • Sr No-7, Video Standards, "H.263, H.264, H.265." • Sr No-14, Live Video Resolutions (Encode/Decode), "The system should supports Video resolutions from CIF, QCIF, 4CIF, 448p, 576p, w448p, w576p, VGA, SVGA, HD 720p@30fps, 720p@60fps, 1080p@30fps and HD 1080p@60fps, XGA and SXGA. The PC resolution should be WXGA or 	<ul style="list-style-type: none"> • The system should be an integrated system with Codec, Dual HD 1080p camera with 12x total zoom or higher, Mic, touch screen/ panel, cables and power supply, single 70" or higher LCD/LED and a floor mount kit." • The 70" screen, codec, cameras, microphones, floor mounted kit should be from same OEM with a single OEM part code. The system should not be a locally fabricated unit. • The system should deliver 1080p@60fps in motion/ sharpness video mode day one. • Must have a total of at least 2 FHD inputs • H.263, H.264, H.265/H.264 High Profile • The system should supports Video resolutions from CIF, QCIF, 4CIF, 448p/576p/w448p/w576p/HD 720p@30fps, 720p@60fps, 1080p@30fps and HD 1080p@60fps. The PC resolution should be WXGA or 720p. • The system should have required Video Inputs to connect 2 x HD Camera (1080P) (either directly or through Speaker Tracking array) and 2 PC Inputs (One HDMI and/or one DVI/VGA) for presentation sharing. • The system should have an integrated LED/LCD/Plasma screen which is at least 70 inches or higher. • should support at least 4 microphones. • Request for removal of this feature as this is 	No Change

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				<p>720p"</p> <ul style="list-style-type: none"> • Sr No-11, Video Inputs, "The system should have 2 Video Inputs to connect 2 x HD Camera (1080P) and 2 PC Inputs (One HDMI and/or one DVI/VGA) for presentation sharing" • Sr No-12, Video Outputs, "The system should have an integrated LED/LCD/Plasma screen which is at least 65 inches or higher." • Sr No-21, Audio Inputs, "should have at least 4 microphones inputs-XLR or Euro block to connect 4 microphones." • Sr No-26, "The system must have the ability to pair mobile devices such as Tablets and Smartphones based on iOS or Android platforms so that these devices can be used for:" • Sr No-27, "1) View the Presentation that is being shown in the VC call." • Sr No-23, Audio Outputs, "Built-in wide band audio speaker and amplifier system to the far end audio and line-in audio. No external audio system is acceptable. The unit must provide a sound output of at least 300W" • Sr No-13, Video Outputs, "Additionally, the unit must have at least two HDMI/DVI outputs to connect additional displays." • Sr No-28, "2) Add and disconnect call." • Sr No-29, "3) Take snapshot of the presentation being shown" • Sr No-40, "1/3" CMOS Camera, 20x Total zoom, +15°/-25° tilt, +/- 90° pan, 1920 x 1080 pixels, minimum 72 deg horizontal field of view" • Sr No-46, System Management, "Total management via embedded SNMP, Telnet, SSH, XML, SOAP" • Sr No-49, Cable & Connectors, "The video endpoint should be accompanied with Power Cable, LAN Cable, DVI to 	<p>proprietary to a OEM</p> <ul style="list-style-type: none"> • Request for removal of this feature as this is proprietary to a OEM • Built-in audio speaker for the far end audio. No external audio system is acceptable. • Additionally, the unit must have at least one HDMI/DVI outputs to connect additional displays. • Request for removal of this feature as this is proprietary to a OEM • Request for removal of this feature as this is proprietary to a OEM • 1/3" CMOS Camera, 12x Total zoom, +15°/-15° tilt, +/- 90° pan, 1920 x 1080 pixels, minimum 65 deg horizontal field of view • Total management via embedded SNMP, Telnet, SSH/XML/ SOAP • The video endpoint should be accompanied with all the required cables. • Request for removal of this feature as this is proprietary to a OEM • Request for removal of this feature as this is proprietary to a OEM • Remote software upload: via web server/SCP/ HTTP/HTTPS, Remote control and on-screen menu system 	

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				<p>VGA Cable, Power adaptors if any, DVI to HDMI cables"</p> <ul style="list-style-type: none"> • Sr No-45, Adhoc Multipoint Capability, "All sites must be visible in a continuous presence mode with rate matching and transcoding such that different sites may connect at different speeds and protocols and still maintain a resolution of at least 720p" • Sr No-52, User Interface, "Optionally Must have the capability to integrate with external control systems to control Blinds, Lights, air conditioning using the API's . The User interface must have the necessary icons for controlling the external devices" • Sr No-47, System Management, "Remote software upload: via web server, SCP, HTTP, HTTPS, Remote control and on-screen menu system" 		

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451	2	Volume 2 / Section 7.12 Unified Collaboration Solution (C)	-	<ul style="list-style-type: none"> • Sr No-5, The Telepresence camera should be 4K HD cameras or better with min. 200 lux illumination" • Sr No-3, The Telepresence system should accommodate minimum 6 participants, with life-size images, around a virtual table, to support an interactive and collaborative, virtual face to face immersive meeting over the network. • Sr No-8, "Solution should support following video standards H.264 and H.265." • Sr No-10, Should support voice-activated switching of either site-by-site or by individual segment with integrated elimination feature to avoid changes due to stray noises. • Sr No-7, "Minimum Three Plasma/ LCD screens, each of atleast 70 inches or a Video Wall based solution at each location supporting atleast HD 1080P@30fps. The screens should be able to display life size images of the participants. At any given instance the screens should be able to display Life like image of at least 6 participants." • Sr No-4, Minimum of three High Definition Cameras (1080 P) to cover all the 6 participants in each location. Cameras should be able to provide segmented view of the rooms. The room at each location should be divided into atleast 3 segments. Each segment should be covered by atleast one HD camera. • Sr No-13, "The user must have the ability to view the presentation on any of the three screens simply by dragging and dropping the required content via a touch interface. Additionally, the Telepresence unit must have the ability to view the presentation on a dedicated screen." • Sr No-17, "The system must also have the ability to share presentation without 	<ul style="list-style-type: none"> • The Telepresence camera should be 1080p60 cameras or better with min. 50 lux illumination • The Telepresence system should accommodate minimum 9 participants, with life-size images, around a virtual table, to support an interactive and collaborative, virtual face to face immersive meeting over the network. • Solution should support following video standards H.264 and H.265/H.264 High Profile. • Should support voice-activated switching of either site-by-site or by individual segment with integrated elimination feature to avoid changes due to stray noises. Additionally, it should also be possible to view continuous presence of sites connected to the conference with the help of continuous presence layouts supported by MCU. • Minimum Three Plasma/ LCD screens, each of atleast 65 inches or more at each location supporting atleast HD 1080P@30fps. The screens should be able to display life size images of the participants. At any given instance the screens should be able to display Life like image of at least 6 participants. • Minimum of three High Definition Cameras (1080 P) to cover all the 9 participants in each location. Cameras should be able to provide segmented view of the rooms. The room at each location should be divided into atleast 3 segments. Each segment should be covered by atleast one HD camera. • The user must have the ability to view the presentation on any of the three screens simply by dragging and dropping the required content via a touch interface. Additionally, the Telepresence unit must have the ability to view the presentation on a dedicated screen of 55" inch. • The system must also have the ability to share presentation without any wires. A laptop on the network must be able to share a presentation if it is in the same room by using an application on the laptop. This feature can be available as a built-in feature or using any third party 	No Change

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				<p>any wires. A laptop on the network must be able to share a presentation if it is in the same room by using an application on the laptop. Typing or configuring of any IP address for presentation sharing is not accepted. This feature can be available as a built-in feature or using any third party component. However bidder has to take full responsibility of the entire set up."</p> <ul style="list-style-type: none"> • Sr No-16, "The TP unit should allow the ability to connect more than one presentation source via a laptop or PC." • Sr No-19, "The system must also have the ability to view the presentation on any of the 3 large 65 inch (or higher) LED screen. In case this feature is not available as part of the OEM offering, additional hardware and software components can be added. However bidder has to take full responsibility of the entire set up." • Sr No-25, "Telepresence system components including 70 inch display screens, speakers, cables, accessories and table should be single OEM sourced. For moveable accessories like Chair and collaboration screens, Vendors may quote third party sourced equipment. Bidders are required to provide supporting documentation from OEM website for the same. Customised solution such as HD video conferencing based boardroom solutions will not be accepted as telepresence system." • Sr No-20, "Solution should use standards TIP control signaling protocol to allow for flexibility for interoperability. The solution must comply with standard based video formats like HD 720p and HD 1080p." 	<p>component. However bidder has to take full responsibility of the entire set up.</p> <ul style="list-style-type: none"> • The TP unit should allow the ability to connect a presentation source via a laptop or PC. • The system must also have the ability to view the presentation on any of the 3 large 65 inch (or higher) LED screen or on a dedicated 55" inch screen. In case this feature is not available as part of the OEM offering, additional hardware and software components can be added. However bidder has to take full responsibility of the entire set up. • Telepresence system components including 65 inch display screens & 55" content screen, speakers, cables & accessories should be single OEM sourced. For moveable accessories like Table, Chair and collaboration screens like document camera, Vendors may quote third party sourced equipment. Bidders are required to provide supporting documentation from OEM website for the same. Customised solution such as HD video conferencing based boardroom solutions will not be accepted as telepresence system. • Solution should use standards TIP control signaling protocol as well as H.323 and SIP to allow for flexibility for interoperability. The solution must comply with standard based video formats like HD 720p and HD 1080p. 	

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452	2	IP PBX Specifications	-	<ul style="list-style-type: none"> • The proposed call control server should provide support for standards based SIP IP Phones (Wired & Wireless), Analog Phones, Video Phones, Video Conferencing endpoints and soft clients to provide centralized management and unified dial plan. • Support for integrated telephony solution for Video conferencing devices, Analog & IP Phones, PSTN gateways over IP architecture. • CODEC support - G.711, G.729, G.729ab, g.722, iLBC • All the appliances in the call control system should have dual redundant and hot swappable power supply and fans for high availability. • All appliances in the call control system should have hot swappable storage media to ensure high availability. • The System should support Audio message- waiting indicator (AMWI) • The System should have Automated bandwidth selection • The architecture should support single Server Clustering to provide scalability to offer support for 30,000 IP devices and also to provide redundancy. All the 30,000 users to be managed in a single database which is managed centrally, no multiple databases. • The architecture should support a minimum of 2500 IP phones and VC systems per Server • The system should support complete encryption capabilities with the ability to encrypt all traffic (media and call control signaling) between IP phones, softphones, call controllers, gateways and all other associated endpoints using a strong encryption algorithm (AES, IPSec and SRTP, for example). • Call control system should handle 	<ul style="list-style-type: none"> • The proposed call control server should provide support for standards based SIP IP Phones (Wired & Wireless), Analog Phones, Video Phones and soft clients to provide centralized management and unified dial plan. Justification : Video conferencing solution integration should be supported. • Support for integrated telephony solution for Video conferencing through Video Phones, Analog & IP Phones, PSTN gateways over IP architecture. • CODEC support - G.711, G.729, G.729ab, g.722 Justification: ILBC is a proprietary protocol • All the appliances in the call control system should have dual redundant and hot swappable power supply (internal or external) and fans for high availability. Justification: There should not be single point of failure • We request you to delete this clause as the IP PBX servers are virtualised and storage media is not hot swappable. • To be removed Justification:- OEM specific • To be removed Justification:-OEM specific • The architecture should support cluster architecture to provide scalability to offer support for 100,000 IP devices and also to provide redundancy. All the users to be managed in a single database which is managed centrally, no multiple databases. • The architecture should support a minimum of 12500 IP phones and video phones in hybrid mode per call server • The system should support complete encryption capabilities with the ability to encrypt all traffic (media and call control signaling) between IP phones, softphones, call controllers, gateways and all other associated endpoints using a strong Hardware based encryption as and when required in future. Justification: Hardware encryption is more strong than 	No Change

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				<p>CODEC and video capabilities of the endpoints, bandwidth negotiation to determine if video/audio call can take place.</p> <ul style="list-style-type: none"> • Shall provide support for open protocols like XMPP. • The call control system should provide integrated video telephony features to the users so that user with IP Phone / Soft phone and video telephony end point should be able to place video calls with the same user model as audio calls. • Video calls to be placed with the same user model as audio calls. • Call-Server should have the infrastructure to handle codec and video capabilities of the endpoints, bandwidth negotiation to determine if video/audio call can take place, single point of administration, management of media devices such as gateways and MCUs. • Multisite (cross-WAN) capability with intersite CAC 	<p>software encryption.</p> <ul style="list-style-type: none"> • To be removed <p>Justification:-Bandwidth negotiation is OEM specific</p> <ul style="list-style-type: none"> • To be removed <p>Justification:-OEM specific</p> <ul style="list-style-type: none"> • The call control system should provide integrated video telephony features to the users so that user with video telephony end point should be able to place video calls with the same user model as audio calls. • User should have same extension no for Audio as well as Video call. Video Phone should offer both Audio as well as Video calling functionality and call initializing process should be same • To be removed <p>Justification:-Bandwidth negotiation is OEM specific</p> <ul style="list-style-type: none"> • Single System to support CAC 	

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453	2	Volume 2 / Section 7.12 Unified Collaboration Solution (E) High Definition Multipoint Control Unit (MCU) Specifications	-	<ul style="list-style-type: none"> • Sr No-8, The MCU/solution should support H323 and SIP protocols. • Sr No-6, MCU should be capable of supporting participants using various means i.e. via video enabled phones, room based video endpoints, soft clients on mobile/tablet or via the browser using WebRTC compatible browsers in a single conference. The meeting quality has to be consistent and of high quality. The end points can be present on the WAN network or on the internet. In case additional components are required for this functionality, all additional components required to have this functionality has to be included in the solution • Sr No-1, All necessary hardware to support the required capacity needs to be supplied from day one. Each of the server supplied for the MCU must have a redundant power supply from day1. • Sr No-3, All the 90 ports must be able to connect different sites at different bandwidths and protocols. H.264 AVC standard must be supported at the minimum to connect all the 90 sites. • Sr No-12, The MCU should support 90 ports or more at HD 720p (transmit and receive) up to 4Mbps on IP in continuous presence mode with 30fps, 1500 audio ports, 100 WebRTC connections and H.264 resolution and AES encryption on the same MCU. • Sr No-18, The MCU should be able to integrated with existing IP PBX to provide audio conferencing ports to phones. • Sr No-11, The MCU should be able to maintain the dynamic resource allocation capacity for 1080p, 720p and SD participants simultaneously without having to reboot or change any configuration. 	<ul style="list-style-type: none"> • The MCU and the complete solution should support H323 and SIP protocols. • MCU should be capable of supporting participants using various means i.e. via video enabled phones, room based video endpoints, soft clients on mobile/tablet or via the compatible browsers in a single conference. The meeting quality has to be consistent and of high quality. The end points can be present on the WAN network or on the internet. In case additional components are required for this functionality, all additional components required to have this functionality has to be included in the solution • All necessary hardware to support the required capacity needs to be supplied from day one . The server supplied for the MCU must have a redundant power supply from day1 and should not require mutiple servers, cascading. All the ports should be supported on single hardware of MCU with no virtualization. • All the 90 ports must be able to connect different sites at different bandwidths and protocols. H.264 AVC & H.264 High Profile standard must be supported at the minimum to connect all the 90 sites. • The MCU should support 90 ports or more at HD 720p (transmit and receive) up to 4Mbps on IP in continuous presence mode with 30fps, H.264 resolution and AES encryption on the same MCU. • The solution should be able to integrated with existing IP PBX to provide audio conferencing ports to phones. • The MCU should be able to maintain the capability to connect endpoints at 1080p, 720p and SD participants simultaneously without having to reboot or change any configuration. • Should support H.263/H.263+/H.263++, H.264 AVC, H.264 SVC/H.264 High Profile video algorithms • Along with the support for basic algorithms like G.711 and G.722.1 the MCU should also support 	No Change

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				<ul style="list-style-type: none"> • Sr No-20, Video Standards, Should support H.263, H.263+, H.263++, H.264 AVC , H.264 SVC/H.264 High Profile video algorithms • Sr No-23, Audio Standards, Along with the support for basic algorithms like G.711 and G.722.1 the MCU should also support wideband Audio protocols like MPEG 4 AAC - LC and MPEG 4 AAC - LD 	wideband Audio protocols like MPEG 4 AAC - LC/MPEG 4 AAC - LD	
454	2	IP Phones	-	<ul style="list-style-type: none"> • Should feature a LCD display of at least 3.5” for information such as calling party name, calling party number, and digits dialled to be displayed. • The phone should support XML based services & applications. • "The phone should support at least 100 entries for call history i.e. missed, received, placed etc." • It should support the following codecs: G.711a/μ-law, G.722, G.729a, iLBC • The phone should support 2 programmable lines keys. • Corporate directory 	<ul style="list-style-type: none"> • Should feature a LCD display of at least 2.4” for information such as calling party name, calling party number, and digits dialled to be displayed. Justification:-For 3 programmable line keys 2.4 inch as an entry level phone should be sufficient. • Remove this clause. Justification:-XML feature is more relevant when the solution is without UC and all the devices are high end. Since, we already have UC solution this may not be required • Phone should support atleast 10 entries of Call history and more enteries of corporate directory • It should support the following codecs: G.711a/μ-law, G.722,G.729ab Justification: ILBC is a propriatary protocol • The phone should support 3 Line display with 6 programmable lines keys. Justification:This will give access to more functions at the same time. • LDAP and AD integration should be supported by System and NMS to which Phones are registered. Justification: Corporate directory on LDAP and AD is standard feature mentioned above already. 	No Change
455	2	Volume-2 H. FC SAN SWITCH	147	Compatibility with proposed servers	Will support server FC Interface with 4, 8 and 16Gbps FC connectivity	No Change
456	2	Vol. 2, Section 7.2, Point 26	124	Video feeds shall be stored for 30 days online/real-time and shall be securely archived for 1 year which is flagged or is registered in evidence. The transaction data for minimum 1 year shall also be stored within the Data Centre infrastructure.	We understand that beyond the retention period for video feeds and transactions mentioned here, data will be overwritten. Kindly confirm.	No Change

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457	2	Vol. 2, Section 7.2, Point 27	124	In case the Data Centre services are to go down due to any unforeseen circumstance, the Command Centre should have access to video feeds of previous 30 days and transaction data for min 1 year from this data backup facility.	We request to remove storage and access of video feeds from DR site since provisioning for same will require high bandwidth between DC and DR for replication which will increase overall TCO for DR site. We alternatively propose to provision local storage at camera for 7 days to cater to any disaster at Data Center. Kindly consider.	No Change
458	2	Vol 2; 7.11.H.FCS.004	146	Total no. of ports on the proposed switch - 24 (No. of SAN Switch to be calculated and proposed as per the consumption)	Total no. of ports on the proposed switch - 96 (No. of SAN Switch to be calculated and proposed as per the consumption)	No Change
459	2	Section E, SAN.02	141	The storage capacity should be scalable to double the capacity by adding the disk. No Controller hardware upgrades shall be done required	The storage capacity should be scalable to double the capacity by adding the disk/Controller+disks	No Change
460	2	Volume-2 H. FC SAN SWITCH	146	Total no. of ports on the proposed switch - 24 (No. of SAN Switch to be calculated and proposed as per the consumption)	The Specs is with the scalability part, Hence request you to pls change it to - Total no. of ports on the proposed switch min 24 scalable to 48 (No. of SAN Switch to be calculated and proposed as per the consumption)	No Change
461	2	Section E, SAN.04	141	The offered Storage controller should have minimum 6 GB cache per controller and support cache backup mechanism to protect the data on cache to SSD in case of power failure.	The offered Storage controller should have minimum 128 GB cache per controller and support cache backup mechanism to protect the data on cache/de-stage the data to SSD in case of power failure.	No Change
462	2	Section E, SAN.06	141	The offered disk controller shall support for SSD, SAS and NL-SAS disk types of maximum capacity available.	The offered disk controller shall support for SSD, NL-SAS disk types	Please check corrigendum for revised specification
463	2	Volume 2, page no. 144	SAN. 008	The host interface module shall be interchangeable or support 10Gbit or iSCSI or SFP+ interface and 12Gbps SAS ports if required.	The host interface module shall be interchangeable or support 10Gbit/ 1gbps or iSCSI or SFP+ interface or 12Gbps SAS ports if required.	Please check corrigendum for revised specification
464	2	Volume 2, page no. 145	SMS. 009	Supported Inbuilt Archiving functionality for Un-Structured Data, shall also allow and Confirm the Archived Data access & Retrieval Directly from User/ VMS application without using any third-party Backup & Archive system to retrieve the	Supported Inbuilt Archiving functionality for Un-Structured Data, shall also allow and Confirm the Archived Data access & Retrieval Directly from User/ VMS application without using any third-party Backup & Archive system to retrieve the Data from Tape Library. The software should be	SMS Solution stands deleted.

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				Data from Tape Library.	of same OEM only.	
465	2	7.11.Physical DC/DR Technical Specification E. SAN Storage Minimum Specifications:	142	SAN.010 : Others Should support Replication and Snap license	Should support Remote Replication along with full volume copy and Snapshot of the stored data to another logical drive for backup purposes, within and across connected external storages. Appropriate Licenses should be proposed with the storage for the same. Justification: These software licenses are standard features for data protection / in-system backup purposes and also for sharing data across DC & DR sites	Please check corrigendum for revised specification
466	2	Volume-2 H. FC SAN SWITCH	146	Support for 4/8 Gb/s HBAs	should Support for 16 Gbps also, Kindly change it to - Support for 4/8/16Gbps HBAs	No Change
467	2	Vol 2; 7.11.H.FCS.009	146	Shall be designed for high availability with no Single Point of Failure	Shall be designed for high availability with redundant power supplies and fans	No Change
468	2	Volume-2 H. FC SAN SWITCH	147	The system should not be an end of life / end of service product.	Request you to pls include the point for SAN Switch safety - Should support both front to back and back to front airflow	No Change
469	2	Master System Integrator – Volume 2 E. SAN Storage Minimum Specifications: SAN.0 02	141	The storage capacity should be scalable to double the capacity by adding the disk. No Controller hardware upgrades shall be done required	Request you to allow capacity Scalability through adding drives, drives enclosures, enclosures, controllers etc if required by the solution. Please confirm	No Change

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470	2	Master System Integrator – Volume 2 E. SAN Storage Minimum Specifications: SAN.0 14	142	Shock, Operational - 3Gs for 11ms, 5 pulses each direction, rail mounted Shock, Non-Operational - 10Gs for 11ms, half sine, 1” drop to hard unyielding surface per NEBS, GR- 63-CORE Unpackaged Equipment Shock Criteria (4.3.2) Vibration, Operation - 5Hz to 500Hz, 0.1436 Grms flat spectrum Vibration, Non-Operational - 3-365-3Hz, 1.22 Grms, Z-axis, 0.85 Grms, X- & Y-axis shaped spectrum	Request to remove these points, As these points are generally controlled in the Data Centre environment & not directly related to SAN Storage, Kindly Remove these Points & ammend.	Please check corrigendum for revised specification
471	2	Master System Integrator – Volume 2 E. SAN Storage Minimum Specifications: SAN.0 01	141	The Usable capacity of min 650 TB of each SAN Storage should be proposed using RAID 6 (10+2) or better for NL-SAS Disk using 6 TB or 10TB Capacity Disk along with 8 Nos. of 1.6 TB SSD Disk in RAIDS.	Request to Allow 6TB or Higher Capacity Disk Drive to have flexibility with bidder to choose the drive capacity as per the Solution design. Please Confirm.	No Change
472	2	Master System Integrator – Volume 2 E. SAN Storage Minimum Specifications: SAN.0 13	142	Proposed array must be supplied with thin provisioning for the configured capacity	Our understanding is thin provsioning is required on all the RAID Level asked in point no. SAN.0 03 (RAID 0,1,5,6,10 levels.). Please confirm.	No Change
473	2	7.11.Physical DC/DR Technical Specification New Solution Component	N/A	New Solution Component	One of the key aspect of the Command Control Centre of a smart city, apart from integration and monitoring, is to provide the City Administrators with a Decision Support System after processing the data from differernt sources (Applications / Sensors etc.) and with advance predictive and prescriptive analytics. In view of the above, we strongly believe that a specialized full fledged technology stack of "ETL, BI, Analytics, Simulation, AI, Machine Learning and Reporting" is missing in the solution components / BoQ of the project, and we urge to include the same as an additional requirement . Appropriate specification can be	No Change

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					gathered from leading OEMs like Microsoft, Hitachi, Oracle and so on.	
474	2	Volume-2 H. FC SAN SWITCH	147	Capability for streaming the data in multiple paths with Optimization algorithms for streaming data through shortest available path. Support for Encrypted password / PKI Digital certificates / LUN Masking and Compatibility with proposed network devices	Not a SAN Switch spec, Request you to remove it	No Change
475	2	Volume-2 E. SAN Storage Minimum Specifications:	141	Fault Tolerant - The offered Storage controller should have cache per controller and support cache back protect the data on cache to SSD in case of p	Need to confirm if anyone wants to offer higher Cac onboard or saperate Hardware.	No Change
476	2	Volume-2 E. SAN Storage Minimum Specifications:	141	Fault Tolerant - The Disk controller offered should have minimum support for RAID 0,1,5,6,10 levels.	Clarification required - RAID has to be created using RAID Hardware or it can be using Software RAID	No Change
477	2	Vol 2; 7.11.H.FCS.021	147	Policy based security and centralised fabric management	Centralised fabric management	No Change
478	2	Volume-2 H. FC SAN SWITCH	147	Capabilities for cascading of switches	Cascading is a IP terminology, Request you to pls remove it.	No Change
479	2	Vol 2; 7.11.H.FCS.007	146	Aggregate backplane Switch bandwidth - 384 Gbps	Aggregate backplane Switch bandwidth - 3 Tbps	No Change
480	2	7.9.1		Anti-DDoS Solution	With all major city applications at stake an anti-DDoS solution is a must have. We propose to include anti-DDoS solution from same OEM as Load Balancers	No Change

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481	2	Gateway level anti-virus and anti-spam security solution	171	The solution should able to view the status of all messages in the queue for the GUI.	Please change the clause to "The solution should able to view the status of all messages in the queue for the GUI / CLI"	No Change
482	2	Gateway level anti-virus and anti-spam security solution	171	The solution should have performance capability of processing at least 1,00,000 message per hour.The salutation should support at least 4 *10/100/1000 copper interface.	The solution should have performance capability of processing at least 500 message per hour.The salutation should support at least 4 *10/100/1000 copper interface.	No Change
483	2	Gateway level anti-virus and anti-spam security solution	171	The solution should provide a comprehensive email security solution that integrates against inbound and outbound, Internal defences against email threat such as spam, virus, etc. Solution should cater to minimum 2,000 User. The solution shall be hardware appliance based.	Please change the clause to "The solution should provide a comprehensive email security solution that integrates against inbound and outbound against email threat such as spam, virus, etc. Solution should cater to minimum 2,000 User. The solution shall be hardware appliance based.	No Change
484	2	Master System Integrator – Volume 2: Scope of Work		No mention of APT specs/ DDoS / SIEM/WAF	Please add as per Meity guidelines	Please check corrigendum for revised specification
485	2	Network Behaviour Analysis	180	3rd Party Threat Feed integration – add live-feeds, like Snort, quickly and easily. Reputation Services provide added value and threat intelligence	Please change the clause to "OEM's own or 3rd Party Threat Feed integration – add live-feeds, like Snort, quickly and easily. Reputation Services provide added value and threat intelligence and support detection methods/fingerprints for Phishing, Botnets, Malware, Spyware, Connections to bad reputation Nations and Dark IP	No Change
486	2	Network Behaviour Analysis	180	a. The solution must have feature for root cause analysis and while PCAP import the System is performing LIVE packet capture of the network b. Provide a visual representation of relationships between entities (IP, email ids, etc) c.Highlight potentially malicious or suspicious content d. 3rd Party Threat Feed integration – add live-feeds, like Snort, quickly and easily. Reputation Services provide added value and threat intelligence e. Should be able to remediate Endpoints from the same console f. Should capture all packets from network	Request for deletion	No change in the RFP document

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				in real time and be able to classify, extract and analytics, reconstructs network activity and forensics over IPv4 and, IPv6		
487	2	Network Behavior Analysis	180	<ul style="list-style-type: none"> • Highlight potentially malicious or suspicious content • Index all the data in the packets to simplify navigation across data silos • Perform full reconstruction of assets transferred, accessed and transmitted • Provide a visual representation of relationships between entities (IP, email ids, etc) • Should be able to provide complete packet-by- packet details pertaining to one or more session of interest including voice/video replay, page reconstruction, image views, artifact & raw packet extractions • Should be able to remediate Endpoints from the same console • Should be an on-premise appliance-based solution with capability to do packet capture, storage, protocol dissection for 3000+ applications • Should have ability to filter, view timeline, or readily access Email and IM artifacts in one pane of glass • Should include Directly Attached Storage with minimum 300TB capacity and should be scalable to 1.5 PB 	<ul style="list-style-type: none"> • Please change the clause to "Highlight potentially malicious or suspicious content/connection" • Please change the clause to "Index all the data/flows in the packets to simplify navigation across data/flow silos and The solution should have the ability to state fully reassemble uni-directional flows into bi-directional conversations; handling de-duplication of data and asymmetry • Please change the clause to "Perform full reconstruction of assets transferred, accessed and transmitted or The solution should detect long-lived connections that may be associated with data-exfiltration. • Please change it to "Solutions should provide a visual representation of relationships between entities (IP, name/email-id, etc)" • Please change the clause to "Should be able to provide complete packet-by- packet details pertaining to one or more session of interest including voice/video replay, page reconstruction, image views, artifact & raw packet extractions or Tsolution should be able to perform Real time monitoring of host behaviors and traffic analysis to identify threats. • Please change the clause to "Should be able to remediate / quarantine Endpoints" • Please change the clause to "Should be an on-premise appliance-based solution with capability to do packet capture, storage, protocol dissection for 3000+ applications or identify network traffic from high risk applications such as file sharing, peer-to-peer, etc. • Please change the clause to "Solution Should have ability to filter, view timeline, or readily access Email /Name and IM / IPS artifacts " • Please change clause to "Should include Directly Attached Storage with minimum 300TB capacity or should store relevant packet data discretly up to 	Please check corrigendum for revised specification

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					42 TB and should be scalable to 1.5 PB	
488	2	RFP Volume II		New Query for Encryption	<p>It is important to keep data at rest also encrypted. Data on laptops and desktops is also important and needs to be secure by encrypting the hard drive. This will enable ASCL to meet data confidentiality standards by allowing following features for encrypting whole disk, files and folders.</p> <ul style="list-style-type: none"> - Solution to encrypt data against unauthorized access and secures sensitive information. - Solution to encrypt the entire hard disk, which includes the operating system, applications, drivers, and user data. - Solution to encrypting data on a hard disk sector by sector so that all data on the disk becomes unreadable and unusable except to its authorized users 	No Change
489	2	RFP Volume II	18	The overarching requirement is the need to comply with ISO 27001 standards of security.	<p>ISO27001 is manage IT Risk and is based on the security policy. All the related documents typically are maintained manually. These documents are dated normally at the time of audit. To address these challenges of complex IT risk and compliance we suggest to have automated solution for entire risk and compliance lifecycle from policy and exception management through technical and procedural controls assessment. ASCL can automatically map existing controls to out-of-the-box policy content to identify controls gaps in ASCL environment, significantly reducing the time to comply with new mandates or security frameworks.</p> <ul style="list-style-type: none"> - For each business asset solution should define business-centric risk objectives, group together all - - Solution to apply and monitor relevant controls define appropriate risk thresholds and deliver customized Web-based dashboards to monitor how organization is doing against these risk thresholds on an ongoing basis extensive out-of-the-box policy content in - Solution to have sample policies and policy templates, including regulations and best practice 	Please check corrigendum for revised specification

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					frameworks. - Solution to have configuration assessment solution, designed to evaluate whether your systems are properly secured, configured, and patched. delivers end-to-end - Solution to provide vulnerability assessment of Web functions, databases, servers, and other network devices	
490	2	RFP Volume II/Anti Malware	177	The appliance should support Anti Malware/Anti- Virus engine that can scan HTTP, HTTPS and FTP traffic for web based threats, that can range from adware, browser hijackers, phishing and pharming attacks to more malicious threats such as rootkits, Trojans, worms, system monitors and Keyloggers and as defined by the organizations policy. Please mention the antimalware engine.	We understand the web is most Vulnerable channel for threat, hence we request to add the AV Engine must be from gartner's leaders quadrant. The solution must support dual AV and can scan files up to 1 GB, So that in any case the end users will be protected. In absence of scanning the file, possibly the user will download malicious file and network may get compromised.	No Change
491	2	RFP Volume II/U. Gateway level anti-virus and anti-spam security solution	173	Appliance should support integration with DLP	Request to please add DLP Specification. Solution should address the risks associated with the storage and use of confidential/sensitive data on laptops and desktops across organization. Solution should discover confidential data wherever it resides and identifies those endpoints with the highest risk. Solution should actively monitor the confidential data being used on the endpoint and flags any activity not in accordance with policy defined from the centralized console. Solution should provide choices to address and remediate incidents and use technology specifically designed to operate in the most efficient and unobtrusive manner possible. Solution should scan laptop and desktop hard drives for confidential/Sensitive data in order to inventory, secure or relocate it and provide over 60 templates or equivalent to enable out-of-the-box discovery of sensitive data mapped to different industry and regulatory directives.	No Change
492	2	RFP Volume II/V. Web Security Appliance	175	Minimum of 1 * 6-core CPUs, Minimum 2.4 TB storage, RAID 5 or 10, 32 GB or more, hot- swappable hard drive	1 * 6-core CPUs, Minimum 2.4 TB storage, RAID 5 or 10, 32 GB , incline towards specific Vendor/OEM. Request you to kindly remove the	No Change

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					clause	
493	2	T. Next-generation Firewall with IPS and anti-APT	170	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	Firewall should support Nat66 (IPv6-to-IPv6) and NAT44. Justification: The NAT64 and NAT46 is ISP requirement not end customer.	No Change
494	2	T. Next-generation Firewall with IPS and anti-APT	171	The NBA capability must provide the option of supplying endpoint intelligence to the IPS for correlation against intrusion events to aid in event impact prioritization.	It is specific to OEM, it is suggested to delete the clause for allow other OEM to participate. Justification: It is specific to OEM and NBA is separate technology	No change and clause is clear in the document
495	2	T. Next-generation Firewall with IPS and anti-APT /Hardware Architecture	6	Firewall Should consume 1RU Form Factor.	Request to please ask for rack mountable solution and do not restrict on 1RU form factor. Today such higher end appliances are available in 2U or 3U form factors or modify the clause to Firewall Should consume minimum 1RU Form Factor.	No Change
496	2	T. Next-generation Firewall with IPS and anti-APT /Hardware Architecture	4	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. The appliance hardware should be a multicore CPU architecture with a hardened 64 bit operating system to support higher memory	Request to change as : Proposed Firewall should be open architecture based on multi-core cpu's to protect & scale against dynamic latest security threats. The appliance hardware should be a multicore CPU architecture with a hardened 64 bit operating system to support higher memory Justification: Clarification and suggestion: 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/ NBA 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	No Change

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497	2	T. Next-generation Firewall with IPS and anti-APT /Hardware Architecture	5	The proposed solution should have dual redundant power supply and redundant hot swappable fans.	It is suggested to remove "redundant hot swappable fans" as Appliance based solution only comes with redundant and hot swappable power supplies however there is no provision on hot swappable or redundant fans hence this clause will restrict all industry leading Security vendors to participate in rfp	No Change
498	2	T. Next-generation Firewall with IPS and anti-APT/ Performance & Scalability	8	Should support minimum 5 Gbps of IPsec VPN throughput.	Request to change as: Should support minimum 20 Gbps of IPsec VPN throughput. Justification: Considering a solution which will cater to traffic on 2x40 Gbps ports, IPsec VPN throughput of 5 Gbps asked is very less and is not in line with the Firewall configuration required. It is strongly suggested that IPsec VPN throughput should be at least 20 Gbps or more	No Change
499	2	T. Next-generation Firewall with IPS and anti-APT/Next Generation Firewall Features	35	The management platform must be capable of integrating third party vulnerability information into threat policy adjustment routines and automated tuning workflows	This clause is specific to one OEM, hence request to remove to allow other OEMs to participate.	No Change
500	2	U. Gateway level anti-virus and anti-spam security solution	5	Appliance should have at least 2 hexa core processor and 32 GB RAM	Request to reduce to single multicore CPU to allow more OEMs to participate	No Change
501	2	U. Gateway level anti-virus and anti-spam security solution	173	The solution should be IPV6 ready	It is suggested to amend the clause as "The solution should be IPV6/IPv4 ready" Justification: The anti spam solution mainly is deployed in datacenter and IPV6 is not must for deployment.	No Change
502	2	V. Web Security Appliance	182	New	a. The solution should support same policy enforcement in real time policy sync for users even when they access Internet outside the corporate network, this should be enforced through an agent deployment on roaming endpoints (MAC/Windows). Roaming user traffic should not come to the organization network for the policy check. b. The solution should provide details geo-location awareness for security incidents. The solution should provide inbuilt capability malicious content of password and unknown encryption files.	No Change

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					c. The solution should inspect the sensitive content through pre-defined templates, textual content inside image,commulative content control and inspection through web channel from day 1. d. The solution should have cloud application usage and associated risk visibility.	
503	2	Volume 2 /U. Gateway level anti-virus and anti-spam security solution	173	Appliance have option for DC power, if require	These are restricting leading OEMS to participate as they seem to be favoring a vendor. It is suggested to have specifications that will be SLA based and have SLA like 99% SPAM protection and 1 in million false positive, dual power supply, ensure appliance high availiabiliy of the solution. Appliance having option for DC is OEM specific and is requested to be deleted.	No Change
504	2	Volume 2 /U. Gateway level anti-virus and anti-spam security solution	170	Appliance should have 1.8 TB hot swappable HDD and RAID support	We understand that there can mupltiple disks in the appliance in different combinations. For instance one of the combinations will be (6x300) amounting to 1.8 TB hot swappable and RAID supported. Is our understanding correct?	No Change
505	2	Volume 2 /U. Gateway level anti-virus and anti-spam security solution	17	General / Addition	We understand that sensitive data will be on the laptops/desktops and that needs to be protected from physical theft. We suggest to include hard-disk encryption for desktops and laptops. This will help in protecting losing of data from physical theft.	No Change

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506	2	Volume 2 /U. Gateway level anti-virus and anti-spam security solution	170	General / Addition	<p>We suggest to have protection against malicious links used in spear phishing and targeted attack campaigns by executing suspicious links remotely on virtual on premise appliance. This provides protection against malicious URLs and phishing attack. We request you making following part of Anti-spam solution as below:</p> <p>1) Solution must be on premise to protect against malicious links used in spear phishing for safe rendering information to browsers, thereby preventing any zero-day malware delivered via email links from reaching the users.</p> <p>2) Solution must also stop credential phishing by rendering suspicious websites in read-only mode, blocking users from submitting sensitive information such as corporate credentials and passwords.</p> <p>3) Solution must provide content analysis for sandbox detonation that reports actionable intelligence such as key malicious indicators, detailed static and dynamic event activity, downloadable analysis of artifacts and resources, and generated threat risk score.</p>	No Change
507	2	Volume 2 /U. Gateway level anti-virus and anti-spam security solution	170	General / Addition	<p>Embedded URLs are being by spammers to lure users to their malicious site. It is therefore important to have prevention functionality available in the onpremise solution proposed by the bidder. We suggest to have following as a part of anti-spam solution :</p> <p>a) Replace clickable URLs in message</p> <p>b) Disable clickable URLs in message</p> <p>c) Redirects to an URLs to on premise secure/safe execution</p> <p>d) Provide explanation why URL is replaced with text.</p>	No Change

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508	2	Volume 2 /U. Gateway level anti-virus and anti-spam security solution	129	XXXI. MSI shall ensure that all firewall devices are staged and comprehensively tested prior to deployment. In addition, SI shall conduct a vulnerability scan and analysis of the network to ensure that the optimal policies are instituted on the firewall.	<p>We suggest to have a COTS tool to conduct vulnerability assessment which will provide vulnerability reports in detail rather than using a free or opensource tool. Request to include vulnerability assessment tool which will have:</p> <ul style="list-style-type: none"> a. Discover network, web, mobile, cloud, virtual, and IoT infrastructure. b. Profile asset configuration and risk potential. c. Pinpoint vulnerabilities, malware and attacks. d. Analyze threat potential, return on remediation and more. e. Provide high-risk assets through advanced threat analytics. f. Trigger remediation through integration with 3rd party systems g. Report on vulnerabilities, compliance, benchmarks, etc. h. Protect endpoints against client-side attacks. i. Identify vulnerabilities with exploit kits available j. Identify vulnerabilities with High Data loss potential k. Identify vulnerabilities with high lateral movement l. Signatures/Vulnerabilities must be mapped to CVE ID, CVSS v2 and v3 scores. m. Automatically adjusts its scans intensity according to how target devices/systems react to avoid overloading them with scan traffic 	No Change
509	2	Volume 2 /U. Gateway level anti-virus and anti-spam security solution	129	XXXIII. MSI shall provide intrusion management services to protect ASCL's resources from internal and external threats.	<p>We understand servers are critical assests and need to be protected not only by network security device but by providing secure signature less file and system tamper protection. We request you to include host based intrusion prevention which provide protection against</p> <ul style="list-style-type: none"> a) critical vulnerabilities and unauthorized application configuration changes b) provision application-centric security hardening for newly created physical and virtual workloads c) continuous monitoring of data center infrastructure for cyber security and compliance d) Lock down configuration settings, file systems, and use of removable media 	No Change

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510	2	Volume II T. Next-generation Firewall with IPS and anti-APT	167	Missing Feature Request for addition:	<p>a. The proposed solution must support on appliance Per policy SSL and SSH decryption for both inbound and outbound traffic.</p> <p>b. The device should be capable to identify and prevent in-progress phishing attacks by controlling sites to which users can submit corporate credentials based on the site's URL category thus blocking users from submitting credentials to untrusted sites while allowing users to continue to submit credentials to corporate and sanctioned sites.</p> <p>c. Should support should support creation of C&C signatures based on IP, URL and DNS and content based AV signatures to block all the variants</p> <p>d. Security is the utmost for all the government marquee projects like smart City and should be considered from the leaders.</p> <p>e. Firewall solution offered from OEM must be in the Top Three in the IDC Worldwide Security Appliance Revenue, Market Share, and Growth for the report of 2nd Qtr of 2017 or in the leaders quadrant in the Magic Quadrant for Enterprise Network Firewall published by Gartner from last three years</p> <p>f. PIM has been asked in the solution where as integration is been missing. Please add important security missing feature</p> <p>Should support Authentication Policy and Multi-Factor Authentication to enforce 2FA on any application or site in an organization, regardless of whether an application natively supports 2FA.</p>	No Change
511	2	Volume II T. Next-generation Firewall with IPS and anti-APT/ Clause No:10	168	Firewall should support at least 65,000 connections per second with AVC feature turned on.	<p>65,000 is too low for this size of device.</p> <p>Firewall should support at least 150,000 connections per second with AVC feature turned on.</p>	No Change
512	2	Volume II T. Next-generation Firewall with IPS and anti-APT/ Clause No:17	168	Firewall should support manual NAT and Auto-NAT, static nat, dynamic nat, dynamic pat	<p>Please amend so that all leading OEMs can participate:</p> <p>Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) / Nat46 (IPv4- to-IPv6) functionality</p>	No Change

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513	2	Volume II T. Next-generation Firewall with IPS and anti-APT/ Clause No:24	169	Should support Application Visibility and Control (AVC) supports more than 10000 application-layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	<p>Every OEM has different ways of addressing application. True Applucation based NGFW are native in nature and donot need signatures for similar apps.Please amend to enable leaders to participate</p> <p>Should support more than 2500 (excluding custom application signatures) distinct application signature as application detection mechanism to optimize security effectiveness</p>	No Change
514	2	Volume II T. Next-generation Firewall with IPS and anti-APT/ Clause No:28	169	The solution shall provide on-premise/cloud based sandbox technology where the objectionable content may be executed and inspected.	<p>Zero day unknown attacks, APT basics are completely missing in the RFP. WE recomment to incude this as the unknown threats are the major cause of compromise. The SLA and response turn around time to convert unknown to known is very important aspect. Also the sizing of on premise device is completely missing.</p> <p>The solution should be capable of protection against millions of unknown zero day attach and this should support automated signature creation and converting the unknown into known within 5-10 mins of Zero-day/Unknown malware detection. and no files should go to OEM cloud for analysis and it should only happen onpremise as per cyber guidelines for Government.</p> <p>Request for amendment: The proposed solution shall provide sandbox behavior based inspection and protection of unknown viruses and zero-day malware for any application and protocol (not limited to HTTP, SMTP, FTP) from day one and the solution shall be able to provide automated signature generation for discovered zero-day malware and the solution should ensure the delivery of the signature in 5 mins from the time of detection. The environment should support both cloud based and on premise architecture. Separate on premise device with support for 36 VM and clustering support of upto 20 devices has to be provided.</p>	No Change

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515	2	Volume II T. Next-generation Firewall with IPS and anti-APT/ Clause No:3	167	The proposed firewall appliance should have at least 12 ports of 10/100/1000 and minimum 4 ports of 10 Gig SFP+ ports with separate management and 2 * 40 G ports from Day one	There should be atleast 4 ports two towards north and two towards south of each type for redundancy. Request you to please amend for consistency and avoid bottle neck in future. The proposed firewall appliance should have at least 12 ports of 10/100/1000 and minimum 4 ports of 10 Gig SFP+ ports with separate management and 4 * 40 G ports from Day one	No Change
516	2	Volume II T. Next-generation Firewall with IPS and anti-APT/ Clause No:7	168	Should support at least 10 Gbps NGFW throughput under real world production Conditions. This throughput should include FW,IPS/Threat Prevention and AVC.	The performance of many legacy architecture devices degrade as low as 90% on enabling Next Gen firewall features. Not mentioning this will block the devices and will not give the desired performance. Please amend to Should support at least 8 Gbps of Threat Prevention throughput with Firewall, application control, IPS, Anti-Virus and Anti-malware enabled and with all updated signatures on real-world production performance /64 KB throughput	No Change
517	2	Volume II T. Next-generation Firewall with IPS and anti-APT/ Clause No:9	168	Firewall should support at least 8 Million concurrent sessions with AVC feature turned on.	8 million sessions is too high for a 8-10 Gig device. Even if we consider 1 session for 10 Kbps. The total sessions in a 8-10 Gig device can only be 1 Million. Even if we take 4 times as buffer it will never increase 4 Million or 4,000,000 concurrent Sessions. Request you to please amend to so that the major security OEMs can participate. Firewall should support at least 4 Million concurrent sessions with AVC feature turned on.	No Change

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518	2	Volume II 7) Provisioning IT Security Equipment	130	Missing important security architecture for prevention against zero day and ransomware on the end points	<p>The security solution should be strictly an application layer (Layer-7) security & user control platform which should be able to identify & prevent known & unknown threats (in realtime basis) covering the related in-scope applications running on the network as per the scope of RFP. The proposed solution should therefore integrate the user's identity repository (across all entities) to enforce authorized access to the related in-scope applications.</p> <p>The security platform should be capable of providing firewall, application control, IPS, Anti-Virus, Anti-malware, content filtering and Anti-bot , URL filtering, DoS prevention functionality in a single appliance and the solution be 60 degree defense security system at the perimeter level, midlevel as well as at the end point level to achieve the complete network security These three layers should ideally talk to each other and integrate to common source of updates</p> <p>Justifications: These features mentioned under Infrastruture security can only be addressed if the Next Generation platform is considered as a part of solution rather than Layer-3 legacy firewall device with zero day protection at the end points as well. Will request you to please include. this point and the annexure for end point solution as a part od colsuton for complete security.</p>	No Change
519	2	Volume II: 3.12 Face Recognition system	39	Face Recognition system	Please suggest how many channels/ Cameras do we need to consider Facial Recognition system ?	150 channels
520	2	Volume II : 3.11. E Challan System	38	3.11. E Challan System & 3.11.2. Hand Held Devices	what is the quantity of E challan hand held device to be provisioned? Request to add the same in the BOQ	100 Nos.

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521	2	Volume II: Scope of Work 7.2. Design, Configuration, Installation and Commissioning of DC and DR	124	26. Video feeds shall be stored for 30 days online/real-time and shall be securely archived for 1 year which is flagged or is registered in evidence. The transaction data for minimum 1 year shall also be stored within the Data Centre infrastructure.	<p>What % of the total video feed should be considered as flagged/registered in evidence video?</p> <p>We need to store the flagged/registered in evidence video for significant number of days (90 or 365)so it becomes very important to understand the size of this data.</p>	<p>Police Related Data: Incident related flagged data shall be retained for additional 90 days. Flagged data to be considered to additional 10% of all cameras.</p> <p>General Surveillance and Other Data at ICC: Incident related flagged data shall be retained for additional 90 days. Flagged data to be considered to additional 10% of all cameras. Smart City Systems data (Except video) storage: 1 Year</p> <p>Disaster Recovery Site: Incident related flagged data shall be retained for additional 90 days. Flagged data to be considered to additional 10% of all cameras. Smart City Systems data (Except video) storage: 1 Year After 1 year this data shall be archived on secondary storage.</p> <p>Changes Suggested at all sites: Tape Library or Disk based offline Secondary Storage System shall be proposed by MSI with the required Usable Capacity for archival of selected flagged data which is expected to be preserved beyond 90 days.</p>

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522	2	Volume II - Structured Cabling Components: SCC.003	295	UL Listed and Verified	request change UL/ETL Listed and Verified. It is not necessary that all OEMs will have 3rd party reports from UL. ETL is also a global 3rd party laboratory, which provides product certification. The customer should allow both UL or ETL complied products.	No Change
523	2	Spine Switch/Leaf Switch - OFC/Leaf Switch - Copper	162	c. Bi-Directional PIM	We request to kindly remove this clause	No Change
524	2	Q. Spine Switch	161	The switch should support 1,20,000 IPv4 and IPv6 routes entries in the routing table with multicast routes entries in the routing table with multicast routes	We request to kindly modify this clause as "The switch should support 1,20,000 IPv4 and 120000 IPv6 and 50000 multicast routes entries in the routing table with multicast routes"	No Change
525	2	P. Intranet Routers	159	The router should have redundant control & data plane.	We request to kindly modify this clause as "The router should have redundant control plane."	No Change
526	2	Spine Switch/Leaf Switch - OFC/Leaf Switch - Copper	162	Switch should support Network Virtualization using Virtual Over Lay Network using VXLAN (RFC 7348)/NVGRE as per RFC 2890	We request to kindly modify this clause as "Switch should support Network Virtualization and VXLAN "	No Change
527	2	Q. Spine Switch	162	Switch should support multi OEM hypervisor environment and should be able to sense movement of VM and configure network automatically	We request to kindly modify this clause as "Switch should support multi OEM hypervisor environment and should be able to sense movement of VM and configure network automatically through integration with Orchestration layer / VM manager."	No Change
528	2	Q. Spine Switch	163	Switch should have a minimum buffer of 80 Mb or more	We request to kindly modify this clause as "Switch should have a minimum buffer of 2GB or more"	No Change
529	2	O. Internet and Intranet Router	157	Should have extensive support for SLA monitoring for metrics like delay latency, jitter, packet loss and MoS	We request to kindly modify this clause as "Should have extensive support for SLA monitoring for metrics like delay latency, jitter, packet loss "	No Change
530	2	O. Internet and Intranet Router	157	Router should have tunneling protocols like Ipsec VPN, GET VPN or equivalent, Multi Point VPN and encryption mechanisms like DES, 3DES, AES (128 and 256Bit).It should support minimum 300 Ipsec tunnels from day one.	We request to kindly modify this clause as "Router should have tunneling protocols like IPsec VPN, GET VPN or equivalent, encryption mechanisms like DES, 3DES, AES (128 and 256Bit).It should have support 300 IPsec tunnels from day one."	No Change
531	2	O. Internet and Intranet Router	157	Router should have minimum 18000 IPv4 and IPv6 with 50K multicast route support from day one.	We request to kindly modify this clause as "Router should have 500K IPv4 and 500K IPv6 Routes and 50K multicast routes support from day one"	No Change

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532	2	O. Internet and Intranet Router	157	Router should be chassis based device with minimum 10 Gbps of throughput scalable upto 20 Gbps. It should have minimum 4 GB of RAM/ DRAM	We request to kindly modify this clause as "Router should be chassis based device with minimum 10 Gbps of throughput scalable upto 40 Gbps. It should have minimum 4 GB of RAM/ DRAM"	No Change
533	2	P. Intranet Routers	159	Router should be CE2.0/MEF14.0 certified.	We request to kindly modify this clause as "Router should be CE2.0/MEF14.0 compliant."	No Change
534	2	P. Intranet Routers	159	Router shall support minimum 18000 IPv4 and IPv6 with 50K multicast routes	We request to kindly modify this clause as "Router shall support 100K IPv4 and 100K IPv6 and 40K multicast routes"	No Change
535	2	Leaf Switch - OFC and Copper	164	Each leaf should have connectivity to all spine switches and the over subscription should not be less then 4:1	We request to kindly modify this clause as "Each leaf should have connectivity to all spine switches and the over subscription should not be less then 6:1"	No Change
536	2	S. Leaf Switch - Copper	165	b. 2 x 40/100GbE QSFP ports populated	We request to kindly modify this clause as "b. 2 x 40GbE QSFP ports populated"	No Change
537	2	S. Leaf Switch - Copper	165	a. 48 x 100mb/1G RJ45 Interface	We request to kindly modify this clause as "a. 48 x 100mb/1G /10G RJ45 Interface"	No Change
538	2	J. TOR (Top of the Rack) Switch:	153	A. 24 or 48 (as per density required) 1G/ 10G Ethernet ports (as per internal connection requirements) and extra numbers of Uplink ports (as per requirement) § All ports can auto-negotiate between all allowable speeds, half-duplex or full duplex and flow control for half-duplex ports. B. 4) 500 Mbps or higher C. 2) Support minimum 32K MAC address.	We request to kindly modify this clause as "48 (as per density required) 1G/ 10G Ethernet ports (as per internal connection requirements) and extra 4 numbers of Uplink ports (as per requirement) § All ports can auto-negotiate between all allowable speeds, half-duplex or full duplex and flow control for half-duplex ports." We request to kindly modify this clause as "4) 1.2 TBPS or higher" We request to kindly modify this clause as "2) Support minimum 128K MAC address"	TOR Switch Specification stands deleted.
539	2	Vol2, internet Router		Additional clause	The router/ System shall support of classifying applications based on the category they belong to (For e.g. file sharing, voice, video-conferencing, business-tools etc.) from day one. System shall support of support customized categories for their applications, help identify distinctly the voice and video streams in the network from day one.	No Change

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540	2	P. Intranet Routers	158	Router shall support MEF for Ethernet based services like PW, VPLS or ATOM.	The router will be installed at the CCC and will not participate in a Metro Ethernet Network hence MEF for Ethernet based services like PW, VPLS or ATOM. is not required. Please remove the clause for larger OEM participation.	No Change
541	2	Vol 2; 7.11.I.1.Fabric Definition	148	The fabric architecture must be based on hardware VXLAN overlays to provide logical topologies that are abstracted from the physical infrastructure with no performance degradation. Fabric must support VXLAN Switching/Bridging and VXLAN Routing.	The fabric architecture must be based on hardware VXLAN overlays to provide logical topologies that are abstracted from the physical infrastructure with no performance degradation. Fabric must support VXLAN Switching/Bridging and VXLAN Routing at the leaf layer	No Change
542	2	Vol2, internet Router		System shall support to provide the ability to filter and gather application information in a flexible manner from day one xflow/jflow	System shall support to provide the ability to filter and gather application information in a flexible manner from day one	No Change
543	2	Vol 2; 7.11.Q.16. Spine Switch, Virtualization Features	161	Switch should support VXLAN (RFC7348) and EVPN or equivalent for supporting Spine - Leaf architecture to optimize the east - west traffic flow inside the data center through integration with Orchestration layer / VM manager.	Switch should support VXLAN (RFC7348) and EVPN for supporting Spine - Leaf architecture to optimize the east - west traffic flow inside the data center through integration with Orchestration layer / VM manager.	No Change
544	2	Vol 2; 7.11.R.14. Leaf Switch, Advance Features	163	Switch should support VXLAN (RFC7348) and EVPN or equivalent for supporting Spine - Leaf architecture to optimize the east - west traffic flow inside the data center	Switch should support VXLAN (RFC7348) and EVPN for supporting Spine - Leaf architecture to optimize the east - west traffic flow inside the data center	No Change
545	2	Vol 2; 7.11.Q.21. Spine Switch, L2 Features	162	Switch should support minimum 160,000 no. of MAC addresses	Switch should support minimum 92,000 no. of MAC addresses	No Change
546	2	Vol 2; 7.11.Q.40. Spine Switch, Security Features	162	Should support Standard / Extended ACLs	Should support Standard & Extended ACLs	No Change

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547	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / O. Internet and Intranet Router / IIR.008 / Internet Router	157	Shall support the RIPng & BGP for IPv6, OSPFv3, MPLS, BGP from day one.	RIP and RIPng protocol are obsolete protocol and technically restrict the architecture to 16 Hops. we propose to use advance protocols. Kindly amend this clause as follows "Shall support the BGP, ISIS, OSPFv2/v3, MPLS from day one."	No Change
548	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	149	Fabric Feature:- Fabric must integrate with best of breed L4 - L7 Physical and virtual appliances and manage using single pane of glass - Fabric Controller / SDN Controller.	Requested clause :- Fabric must integrate with best of breed L4 - L7 Physical and virtual appliances. Any 3rd party virtual or Physical appliance can be managed by respective OEM's EMS .	No Change
549	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	149	Fabric Feature:- Fabric must integrate with different virtual machine manager and manage virtualise networking from the single pane of Glass - Fabric Controller/SDN Controller.	Requested clause :- Fabric should support integrating with different virtual machine manager using North bond API's / RESTFUL API's / Neutron Plugin Request to relax the clause for leading OEM to participate .	No Change
550	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	148	Fabric Feature:- Fabric must support various Hypervisor encapsulation including VXLAN, NVGRE and 802.1q natively without any additional hardware/software or design change.	Requested clause :- Fabric must support various Hypervisor using encapsulation such as VXLAN/ NVGRE and 802.1q natively without any additional hardware/software or design change. VXLAN & NVGRE provides the same functionality , NVGRE is not supported by many leadin OEMS. Request to relax the clause .	No Change
551	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	150	Fabric Layer 2, Layer 3 and Misc Features:- Fabric must support IP v4 and IP v6 management tools like - Ping, Traceroute, VTY, SSH, TFTP and DNS Lookup.	Requested clause :- Fabric must support IP v4 and IP v6 management tools like - Ping, Traceroute, VTY, SSH, TFTP and DNS Lookup/ resolver . Request to relax the clause for leading Oem to participate .	No Change

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552	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	149	Fabric Feature:- Fabric must provide open scripting interface using Bash, powershell, NetConf, YANG from the central management appliance / SDN Controller for configuring the entire fabric.	Requested clause :- Fabric must provide open scripting interface using Bash/ powershell/ NetConf/YANG from the central management appliance / SDN Controller for configuring the entire fabric.	No Change
553	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	149	Fabric Feature:- Fabric must provide deeper visibility into the fabric in terms of latency and packet drop between VM to VM, VM to Physical server and vice versa, Leaf to another leaf etc.	Requested clause :- Fabric must provide deeper visibility into the fabric in terms of latency and packet drop between Leaf to another leaf etc.	No Change
554	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	148	Fabric Feature:- Fabric must auto discover all the hardware and auto provision the fabric based on the policy.	Requested clause :- Fabric must auto discover all the hardware and auto provision the fabric based on the policy/network requirement . Request to relax the clause for leading OEM to participate .	No Change
555	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	152	Fabric management:- Centralised management appliance or SDN Controller provide dynamic device inventory of the Fabric as well as current network topology of the fabric. It must also validate the cabling connectivity and generate alarms in case of wrong or faulty connectivity.	Requested clause :- Centralised management appliance or SDN Controller provide dynamic device inventory of the Fabric as well as current network topology of the fabric. Request to relax the clause for leading OEM to participate	No Change
556	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	152	Fabric management:- Centralised management appliance or SDN Controller must communicate to south bound devices using open standard protocol i.e. OPFLEX, OPENFLOW, OVSDB etc. or using Device APIs.	Requested clause :- Centralised management appliance or SDN Controller must communicate to south bound devices using open standard protocol i.e. OPFLEX/OPENFLOW/Netconf/ OVSDB etc. or using Device APIs.	No Change

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					Request to realx the clause for leading Oem to participate	
557	2	P. Intranet Routers	158	Router shall support IPV4 and IPV6, IGMP V2/V3, MLD, 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	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 " The 6PE & 6VPE mode are OEM specific hence asked for equivalent technology which will give same functionality.	No Change
558	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	150	Fabric Layer 2, Layer 3 and Misc Features:- Fabric must have zero trust policy model for connected systems or hosts to help in protecting against any kind of attacks like Unauthorized Access, Man - in - the - middle - attack, Replay Attack, Data Disclosure, Denial of Service.	Request to remove the clause for leading to participate .	No Change
559	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	150	Fabric Security Features:- Fabric must support VM attribute based zoning and policy.	Request to remove the clause for leading to participate .	No Change
560	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / O. Internet and Intranet Router / IIR.001 / Internet Router	157	Router should be chassis based device with minimum 10 Gbps of throughput scalable upto 20 Gbps. It should have minimum 4 GB of RAM/ DRAM	OEM specific clause request to Modify the requirement as every OEM has its own way of managing Memory " Router should be chassis based device with minimum 10 Gbps of throughput scalable up to 20 Gbps. "	No Change

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561	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / O. Internet and Intranet Router / IIR.011 / Internet Router	157	System shall support to provide the ability to filter and gather application information in a flexible manner from day one xflow/jflow	OEM specific clause request to Delete the requirement. Moreover Similar feature should be supported on Firewall. Thus kindly shift the clause to firewall section	No Change
562	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / J. TOR (Top of the Rack) Switch / TORS.010 / VLAN	154	Switch must support dynamic VLAN Registration or equivalent	OEM Specific Clause . Thus kindly delete the clause	TOR Specification stands deleted
563	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / P. Intranet Routers / IR.032 / Architecture	159	The router should support 20Gbps per slot throughput.	OEM specific clause . Kindly delete this clause and only specify the port required.	No Change
564	2	Vol 2; 7.11.Q.9. Spine Switch, Hardware and Interface Requirement	161	Minimum 30 nos of line rate and Non - Blocking 40/100G ports fully populated with 100G	Minimum 32 nos of line rate and Non - Blocking 40/100G ports fully populated with 100G	No Change
565	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / P. Intranet Routers / IR.030 / Architecture	158	The router shall support following type of interfaces– 10GE, 1GE interfaces, 10G, Ch.STM1	legacy Interface will never be used in state of art Smart city, thus kindly modify the clause as " The router shall support following type of interfaces - 1GE interfaces, 10G "	No Change
566	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / J. TOR (Top of the Rack) Switch / TORS.012 / Management	154	Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI, GUI based software utility or using web interface	GUI is not recommended as this create security issues. Kindly Modify the clause as "Should have accessibility using Telnet, SSH, Console access, easier software upgrade through network using TFTP etc. Configuration management through CLI "	TOR Specification stands deleted

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567	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / O. Internet and Intranet Router / IIR.004 / Internet Router	157	Router should have tunneling protocols like IPsec VPN, GET VPN or equivalent, Multi Point VPN and encryption mechanisms like DES, 3DES, AES (128 and 256Bit).It should support minimum 300 Ipsec tunnels from day one.	GETVPN is OEM specific clause request to Modify the requirement a " Router should have tunnelling protocols like IPsec VPN and encryption mechanisms like DES/3DES/ AES . It should support minimum 300 Ipsec tunnels from day one.. "	No Change
568	2	Vol 2; 7.11.I.1.Fabric Definition	148	Fabric is the Close 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.	No Change
569	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / P. Intranet Routers / IR.055 / Protocol Support	160	The proposed router should be EAL2/ NDPP certified by common Criteria body at the time of delivery. The router should be IPv6 ready from day-1.	EAL certification is a time consuming process .Technology is changing fast and new products are being introduced to meet the industry requirement. We therefore request to please deleted the clause or allow either router/switch OS to be EAL certified or product family offered should be EAL3 certified instead of specific product. this will allow OEM to quote latest product	No Change
570	2	P. Intranet Routers	158	The router shall support following type of interfaces – 10GE, 1GE interfaces, 10G, Ch.STM1	Considering day -1 requirement and industry standard , we request you to remove old interface standard like STM. Kindly modify the clause as "The router shall support following type of interfaces – 10GE, 1GE interfaces, 10G"	No Change
571	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / P. Intranet Routers / IR.025 / Architecture	158	Router shall support MEF for Ethernet based services like PW, VPLS or ATOM.	CE/MEF certification is a time consuming process .Technology is changing fast and new products are being introduced to meet the industry requirement. We therefore request to please deleted the clause or Modify the clause as following (this will allow OEM to quote latest product) "Router shall support MEF for Ethernet based services like PW, VPLS".	No Change
572	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / P. Intranet Routers / IR.024 / Architecture	158	Router should be CE2.0/MEF14.0 certified	CE/MEF certification is a time consuming process .Technology is changing fast and new products are being introduced to meet the industry requirement. We therefore request to please deleted the clause or Modify the clause as flowing (this will allow OEM to quote latest product) "Router should be CE2.0/MEF14.0 Compliant"	No Change

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573	2	Volume II : 7.11. Physical DC/DR Technical Specification	163	R. Leaf Switch - OFC	As per the Clause 7.11 ,R.Leaf Switch -OFC Tehcnical Specification is given .but in the Bill of material same Specification details is not reflected. Kindly Include the line item in the Bill of material	Please check corrigendum for where Bill of Material is added
574	2	Volume II : 7.11. Physical DC/DR Technical Specification,I. Fabric Controller	148	I. Fabric Controller	As per the Clause 7.11 ,I. Fabric Controller Tehcnical Specification is given .but in the Bill of material same Specification details is not reflected. Kindly Include the line item in the Bill of material	Please check corrigendum for where Bill of Material is added
575	2	Volume I: 7.9.1 Annexure 4 - Bill of Quantity	75	16.Server Load Balancer	As per the Bill of Quantity 16.Server Load Balancer Line item is given ,Same is not Captured in Technical Specification ,Kindly Provide us the Tehcnical Requirements Details	Please check corrigendum for specification
576	2	Volume I: 7.9.1 Annexure 4 - Bill of Quantity	75	17.Link Load Balancer	As per the Bill of Quantity 16.Link Load Balancer Line item is given ,Same is not Captured in Technical Specification ,Kindly Provide us the Tehcnical Requirements Details	Please check corrigendum for specification
577	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / P. Intranet Routers / IR.027 / Architecture	158	The router should have redundant control & data plane.	As 2 QTY is specified in RFP . Kindly remove the requirement for redundant data Plane as this will reduce port requirement on a single router which will in turn optimized the cost. Thus Kindly modify the clause as "The router should have redundant control plane."	No Change
578	2	Master System Integrator - Volume 2 : Scope of Work / 7.11. Physical DC/DR Technical Specification (I. Fabric Controller)	151	Fabric Scale and Performance :- Fabric must be capable of connecting 2500 physical servers and scale to 5000 physical servers..	Amigious clause request to remove	No Change
579	2	Vol 2; 7.11.R.6. Leaf Switch, Hardware and Interface Requirement	163	a. 48 x 10G/25G Multi Mode Fiber Interface populated with required transceivers	a. 48 x 1G/10G/25G Multi Mode Fiber Interface populated with required transceivers	No Change

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580	2	Volume 2 / 7.11.Physical DC/DR Technical Specification / P. Intranet Routers / IR.042 / Protocol Support	159	Router shall support IPV4 and IPV6, IGMP V2/V3, MLD, IGMP and PIM, 6PE and 6VPE	6PE will never be required in Green field smart city. This Kindly Modify the clause as "Router shall support IPV4 and IPV6, IGMP V2/V3, MLD, IGMP and PIM and 6VPE "	No Change
581	2			Additional Clarification	Pls. confirm how the Right Of Way Permissions would be issued, also confirm that the charges for ROW permission and the reinstatement charges for the excavated area shall be borne by Aagra Smart City authority.	RoW to be issued by ASCL but the reinstatement charges to be borne by MSI.
582	2			Additional clause	HCI solution should support both replication factor 2, 3 any license required for the same should be included from day 1	No Change
583	2			Additional clause	HCI solution should be quoted to support data at rest encryption at drive level	No Change
584	2	7.11. Physical DC/DR Technical Specification B. Hyper Converged Infrastructure	137	HCI.001 The proposed HCI solution should be software defined and should not use any hardware based RAID, Compression or De-duplication	The present clause restricts vendor qualification. Request modification for maximum vendor participation, Kindly ammend this clause as :- "The proposed HCI solution should be software defined or hardware assisted software defined."	No Change
585	2	7.11. Physical DC/DR Technical Specification B. Hyper Converged Infrastructure	137	HCI.005 The proposed solution must have capability to support SSD & SAS/SATA	The present clause restricts vendor qualification. Request modification for maximum vendor participation, Kindly ammend this clause as :- "The proposed solution must have capability to support SSD/ SAS/SATA"	No Change
586	2	7.11. Physical DC/DR Technical Specification B. Hyper Converged Infrastructure	138	HCI.015 Native storage level snapshots with no impact to guest performance or using any additional storage capacity	The present clause restricts vendor qualification. Request modification for maximum vendor participation, Kindly ammend this clause as :- "Native storage level snapshots/space efficient full backup with no impact to guest performance or using any additional storage capacity".	No Change
587	2	7.11. Physical DC/DR Technical Specification B. Hyper Converged Infrastructure	138	HCI.018 The proposed HCI should support native File Services over NFS/CIFS/SMB and file replication across clusters and data centers	The present clause restricts vendor qualification. Request modification for maximum vendor participation, Kindly ammend this clause as :- "The proposed HCI should support File Services over NFS/CIFS/SMB and replication across clusters and data centers".	No Change

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588	2	7.11. Physical DC/DR Technical Specification B. Hyper Converged Infrastructure	138	HCI.022 Shall be capable of creating instant snapshots of virtual machines and maintaining multiple copies of snapshots & clones	The present clause restricts vendor qualification. Request modification for maximum vendor participation, Kindly ammend this clause as :- "Shall be capable of creating instant snapshots or space efficient full copy backups of virtual machines and maintaining multiple copies of snapshots & clones or full copy backups" .	No Change
589	2	7.11. Physical DC/DR Technical Specification B. Hyper Converged Infrastructure	138	HCI.023 Proposed HCI solution should support fault tolerance of at least two nodes failure within a cluster	The present clause restricts vendor qualification. Request modification for maximum vendor participation, Kindly ammend this clause as :- "Proposed HCI solution should support fault tolerance of at least 3 simultaneous disk in a cluster or atleast two nodes failure within a cluster" .	No Change
590	2	S.001	138	Minimum 1 numbers of Intel(R) Xeon(R) 64Bit Processor upgradable to 2 Processors on the same system, each with minimum of 8 cores, 2.10GHz Speed, 20M Cache or above.	Minimum 1 numbers of Intel(R) Xeon(R) 64Bit Processor upgradable to 2 Processors on the same system, each with minimum of 8 cores, 2.10GHz Speed, 10M Cache or above.	No Change
591	2	Section D, T.001	140	Minimum 2 numbers of Intel(R) Xeon(R) 64Bit Processor each with minimum of 8 cores, 2.10GHz Speed, 20M Cache or above. Latest Intel Chipset supporting above Process Bare metal Virtualization Hypervisor	Minimum 2 numbers of Intel(R) Xeon(R) 64Bit Processor each with minimum of 8 cores, 2.10GHz Speed, 10M Cache or above. Latest Intel Chipset supporting above Process Bare metal Virtualization Hypervisor with with functionality of High Availability, Fault Tolerance, hot Add (CPU, Memory, Storage & Network), dynamic resource scheduler, distributed switch, storage and network IO control, VM level encryption, agentless integration of end point security	No Change
592	2	Server for Non Virtualize / Non HCI environment	138	Minimum 2 x 600GB SFF 15K RPM, 6Gbps SAS HDD / SSD Hot Pluggable Hard Drive with min 1 TB usable space. The server should support SAS, SATA and SSD hard disk drives	Minimum 2 x 600GB SFF 15K RPM, 6Gbps SAS HDD / SSD Hot Pluggable Hard Drive with min 1 TB usable space. The server should support SAS/SATA and SSD hard disk drives	No Change
593	2	S.002	138	Minimum 256 GB Memory with 32/64GB /DDR4 2133 MHz or above Memory modules,	Minimum 24 DIMM slots. 256 GB Memory with 32/64GB /DDR4 2133 MHz or above Memory modules, should be	No Change

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				should be scalable up to 768 GB per server	scalable up to 768 GB per server	
594	2	C. Server for Non Virtualize / Non HCI environment D. Minimum recommended Technical Specifications for Node / Server for HCI environment	139/140	Minimum 4 PCI-e (Express) slots in which minimum 2 x PCI-e8Xslots SAS/SATA/SSD Raid controller capable of providing RAID 0, 1, 5 configurations. Min 3 x USB 2.0, 1 x Management port, 1 x VGA and 4X network ports	Kindly delete this clause as it restricts server OEM's to quote blade server which is a compact form factor and cannot support 4 PCIe slot, 3 x USB 3.0 and VGA port. Blade servers consume less space and cables for LAN & SAN connectivity compared to rack servers.	No Change
595	2	Section D, T.007	140	Minimum 4 X 10 GbE Ethernet Ports and use of proprietary interconnects leading to vendor lockin is unacceptable.	Minimum 40 Gbps of bandwidth per node to interconnect HCI clusters. Each cluster of HCI should be provided with dedicated switches to ensure predictable performance & latency	No Change
596	2	D. Minimum recommended Technical Specifications for Node / Server for HCI environment	141	Rack space max up to 2 U per enclosure	Kindly revise this clause to " Server should be either blade enclosure or Rack mountable systems" similar to Non HCI environment specs, so that OEM can propose blade architecture which is more TCO friendly compared to rack servers.	No Change
597	2	HCI.009	138	Shall support minimum 8 nodes or higher in a same cluster.	Shall support minimum 32 nodes or higher in a same cluster.	No Change
598	2	7.11. Physical DC/DR Technical Specification D. Minimum recommended Technical Specifications for Node / Server for HCI environment	140	T.005 Minimum of 2 SSD drives per server. Each server should support SATA/NL-SAS and SSD hard disk drives. multiple levels of data block level replication across node / controllers to prevent multi node / controller failures. Single logical unit of storage should be shared across nodes / controllers at the same time within a given cluster. It should support thin provisioning, Clone volumes.	The present clause restricts vendor qualification. Request modification for maximum vendor participation, Kindly ammend this clause as :- "The Proposed HCI Solution should be SSD only. SSD should be used both for Caching and Capacity Tier."	No Change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
599	2	Section D, T.008	141	The management software should provide real time monitoring, and historical analysis of storage performance and capacity such as total no. of IOPS, read/write %, CPU Utilization, Network Utilization and throughput etc. for analysing the performance of the system. should have audit log for recording all service/maintenance and host log actions on the storage.	The management software should provide real time monitoring, performance and capacity such as total no. of IOPS, read/write %, CPU Utilization, Network Utilization and throughput etc. for analysing the performance of the system.	No Change
600	2	HCI.019	138	The proposed HCI solution must provide operations management and provide performance, storage, CPU utilization per VM	Request for deletion	No Change
601	2	7.11. Physical DC/DR Technical Specification D. Minimum recommended Technical Specifications for Node / Server for HCI environment	140	The total physical core and memory comprising all the physical nodes in Converged / Hyper Converged Environment should be basis the applications , workload performance and availability requirements to be architected by MSI Min 200 TB Usable space across, excluding the OS partition and cache, if any.	The Present Clause does not clarify whether storage space is required post or pre deduplication & compression. Suggestion/Revised Clause " The total physical core and memory comprising all the physical nodes in Converged / Hyper Converged Environment should be basis the applications , workload performance and availability requirements to be architected by MSI. HCI solution should be able to store upto Min. 200TB of Data. Any overheads for HCI, OS partition and cache, if any needs to offered seperately. "	No Change
602	2	HCI.006	138	Thin provisioning of both storage entities and virtual machine hard disks	Thin provisioning of datastores of both storage entities and virtual machines	No Change
603	2	General			With Municipal Corporation provide ROW for fiber layouts	ASCL will support for RoW to MSI
604	2	General			We request you to please wave off ROW charges.	No change
605	2	Vol 2	122	Design, Configuration, Installation and Commissioning of DC and DR	We request ASCL to please provide the exact addresses/ Locations of DC and DR. Also request to specify Hand-over Interface at each sites, DC & DR? (Optical / Electrical)	Primary Infrastructure will be installed in Local IT Hub within ICCS and part of Storage in UP Dial 100 Control Room. DR shall be designed by MSI

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
606	2	Volume II - Structured Cabling Components: SCC.004	Generic Query	There should be specifications of the products that will be supplied. Such as Cables, Information Outlets, Fiber Cable and associated components. The specifications should be performance based and not construction based to ensure that the best quality of products are used for the project.	<p>We recommend that the following minimum technical specifications should be incorporated in the Tender, to ensure best performing products are used. The specs are completely performance based and not limited to a single OEM:</p> <ol style="list-style-type: none"> 1) All networking passive material (Fiber and Copper) should be from one OEM make only. 2) The OEM of passive components should provide UL/ETL certification for the full Cat 6A copper channel link (UL/ETL 4 connector test report) with at least 3 dB NEXT headroom and CAT 6 at least 6dB NEXT head room for entire frequency range specified in ISO/IEC 11801 also the individual Copper components should be UL/ETL listed. 3) All proposed indoor cables should be complied with IEC 60332-3-22 features for environment safety. 4) CAT 6A performance even when termination is within 15 meters thus ensuring eliminating short resonance for 4-connector channel (UL/ETL Report for 4 Connector need to be submitted). 5) The CAT 6 & 6A Cable Should be ETL Verified and all passive components should be RoHS complied. 6) The nominal Outside Cat 6A U/UTP Cable diameter should not be more than 7.4 mm. 7) Detailed factory test reports of all Copper and Fiber cables should be available on a publicly available online system to check the Genuity of the products. 8) All the fiber cable should be Bend insensitive Multi mode and single mode as well as Single Mode fiber cable should be Bend insensitive as per G.657.A1 with zero water peak construction, OS2. 	No Change
607	2	Vol-II/L. DG Set	155	L. DG Set:	We assuming that necessary Fuel consumption to carry out project operation will be reimbursed by the department on actual. Kindly confirm.	No, to be borne by MSI

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
608	2	vol 2 / 7. Component 7 : Data Centre (DC) and Disaster Recovery (DR) Centre	122	The MSI shall be required to undertake a detailed assessment of the requirements at the identified location and commission all the necessary ICT and non-ICT infrastructure which also add civil/ electrical work as required.	We assume that ASCL has existing DC site, bidder needs to propose required IT Infrastructure as per the solution requirement. Also ASCL wants bidder to propose DR on CSP Cloud. Please confirm our understanding.	Clause is clear and no modification in the RFP document
609	2	vol 2 / 7.6.1. Datacenter Specification	128	The Data Center should conform to at least Tier III standard (preferably certified under TIA 942 or Uptime Institute certifications by a 3rd party) and implement tool-based processes based on ITIL standards	This is contradictory statement. We assume that ASCL has existing Data Centre site and bidder needs to propose required IT Infrastructure. Or ASCL wants bidder to propose DC on CSP Cloud as per this clause? Please cleared our doubts.	Clause is clear and no modification in the RFP document
610	2	Volume 2: Section 7.11. Physical DC/DR Technical Specification	Page No. 136-137	7.11. Physical DC/DR Technical Specification	These specs are vendor specific. We request you to consider the standard Data Center specifications of a minimum Tier III MEITY empaneled Cloud Service Provider instead of the given compliances.	Local IT Hub within ICCC shall be considered as primary location for all the Infrastructure Setup.
611	2	Section 7, 7.3	125	Support for synchronous and asynchronous data replication.	Support for asynchronous data replication.	Clause is clear and no modification in the RFP document
612	2	Volume I: 7.9.1 Annexure 4 - Bill of Quantity	75	11.Web , Email Security Appliance	Specs for Email security is included in Gatelevel anti virus and anti spam solutions. Request you to kindly remove the Email security applinace in BoQ line item no 11	MSI to derive number of nodes getting after the Architecture is designed and finalized
613	2	Vol. 2, Section 7.7	130	Both DC and DR site shall have built in redundancy and high availability in compute and storage to ensure that there is no single point of failure.	Since DR site is expected to be sized at 50% of Data Center, high availability and redundancy cannot be achieved. Request to modify the clause as <i>"The Data Center shall have built in redundancy and high availability in compute and storage to ensure that there is no single point of failure."</i>	MSI to propose the best Architecture for city.
614	2	Vol. 2, Section 7.6.1, Points 6 & 7	128	6. The MHSP datacenters should comply/certified Tier III datacenter norms. 7. The Data Center should conform to at least Tier III standard (preferably certified under TIA 942 or Uptime Institute certifications by a 3rd party) and implement tool-based processes based on ITIL standards.	Since data center space and electrical power will be provided by ASCL, we understand that the same will be provided as per Data Center Tier III requirements as mentioned below . Kindly confirm. Active Capacity Components to Support the IT Load : N+1 Distribution Paths : 1 active and 1 alternate Concurrently Maintainable : Yes Continuous Cooling : Load Density Dependent	No Change

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615	2	Vol2, 7.7.4.xviii	129	Separate VLAN shall be created to manage the entire network. This network shall have systems to monitor, manage routers, switches, Firewalls, etc. The MSI shall provide necessary hardware / server for loading the monitoring software if required.	Separate Out of Band Management physical network shall be created to manage the entire production infrastructure at DC as per industry best practices. This network shall have systems to monitor, manage routers, switches, Firewalls, etc. The MSI shall provide necessary hardware / server for loading the monitoring software if required.	No change
616	2	Volume 2 : Section 7.11	Page no 137	System: Air-cooling system with N+2 redundancy, Management of temperature and humidity	Request you to modify the clause as "System: Air-cooling system with N+1 redundancy, Management of temperature and humidity "	No change
617	2	Volume 2: Section 7.2. Design, Configuration, Installation and Commissioning of DC and DR	Page No. 123	25. Minimum Guiding factors for selection of Data Centre: Following are benchmark requirements which should act as guiding factors for MSI to select and propose locations for Data Centre:	Request you to amend the clause as "25. Minimum Guiding factors for selection of Data Centre: Following are benchmark requirements which should act as guiding factors for MSI to select and propose locations for Data Centre:	No change
618	2	Section 7, 7.7, VIII	129	MSI shall substantiate with proof; preferably with an undertaking to replace the processors as and when such processors of highest level of frequency are supported.	Request for deletion	No change
619	2	Volume 2	205	Component 8.1 , point 3 : MSI should estimate the bandwidth requirement for connectivity to desired Cloud Service of DC/DR and the same shall be clearly provisioned in the technical proposal with detailed calculations.	Please provide the details of bandwidth sizes for aggregated DC , P2P replication and Cloud DR , between DC and ICC.	No change
620	2	Volume II	Page No. 92	Selected Bidder will conduct QA, QC and check the Qty , Quality, Accuracy, source and reliability of the collected data from ASCL, whether the data (spatial or non-spatial) is recent or accurate enough to be used and not obsolete.	Please suggest, in case data provided by ASCL is not conforming QA, QC criteria?	QA and QC criteria shall be provided in terms of detailed test reports. It will also be accepted by ASCL as part of FAT/UAT.
621	2		General	COS criteria	Please confirm the COS, protocol, LAN Ip and on site contact details along with PO.	No change
622	2	Vol2 , Section 7.1	122	General query	Please clarify whether Video replication is required in DR as well.	Clause in clear and no modification in the RFP document

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
623	2	Volume II: Component 7. DC and DR	122	The Disaster Recovery Centre is a mirror image of all the application hosted at the data center & will be 50% of the Compute however the data of video feeds is to be 100% available in case of Disaster. In case of non-availability of data center, the DR center should be able to operate all the applications for the smart city components. The DR center will have all the functionality and infrastructure similar to the data center. Disaster Recovery Centre will be 50% of Data Centre Site, it is mandatory to have two separate physical location and distance itself through Seismic Zones.	Please clarify that if the total compute is 50% of the DC, how come 100% video data can be processed in DR.	The clause is clear in the document with SLA specified in Volume 3
624	2	A. Data Centre Specification DC.001	136	Data availability : 99.982%	Please Change to: Data availability : <u>99.982%</u> to <u>99.95%</u> or <u>99.99%</u> to make it more generic.	No change
625	2	Volume 2	130	Network Equipment level redundancy	Please also specify does this require Network link level redundancy at DC and DR respectively? Please also specify the tological architecture required , last mile type at DC\DR\locations etc(Fiber \Copper , ring with dual last mile or single last mile at DC\DR?)	No change and clause is clear in the document
626	2	VOL - II , Component 7 : Data Centre (DC) and Disaster Recovery (DR) Centre	122	The Disaster Recovery Centre is a mirror image of all the application hosted at the data center & will be 50% of the Compute	Our understanding is that DR will be 50% replica of DC , Please confirm whether High availability (cluster N+1) needs to be configured at DR ?	The clause is clear in the document with SLA specified in Volume 3
627	2	Vol2 ;7.2.14	123	MSI should have provision of dedicated virtual links for data replication between their multiple datacenter in order to provide secure data replication for DR services.	MSI should have provision for data replication between DC and DR in order to provide data replication for DR services.	No change
628	2	Vol2 ;7.2.15	123	MSI should ensure use of appropriate load balancers for network request distribution across multiple VMs.	MSI should ensure use of appropriate load balancers for network request distribution across multiple VMs is the solution demands the same.	No change
629	2	Section 7.7, 2	129	MSI shall size and propose other switches required for interconnecting various segments, operations centre, work area, etc.	MSI shall size and propose other switches required for interconnecting various segments, operations centre, work area, HCI pod, Non-HCI pod etc.	No change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
630	2	Vol2 ;7.2.20	123	MSI shall require while architecting the solution which works on the software defined data center conceptualization inside the firewall & further workloads which cannot be virtualized on bare metal or physical server that shall be used for the software defined storage pool.	MSI shall require while architecting the solution which works on the software defined data center conceptualization. MSI should provide software defined storage solutions	No change
631	2	Vol2 ;7.2.17	123	MSI shall provide the capabilities to assign role based access and ability to templatelize the VM, Application based on the workload.	MSI shall provide the capabilities to provide role based access control to all infrastructure and applications	No Change
632	2	Vol2 ;7.2.18	123	MSI shall propose the system which has ability to define redundancy level for each workload across the cluster.	MSI shall propose redundant network infrastructure for all workloads across the cluster.	No change
633	2	Vol2 ;7.2.1	122	MSI shall be responsible for detail designing and Solutions architecture of required Infrastructure, setup, applications of ASCL and premise shall be software defined data center which has zero dependency on the proprietary hardware.	MSI shall be responsible for detail designing and Solutions architecture of required Infrastructure, setup, applications of ASCL and premise shall be software defined data center which has zero dependency on the proprietary compute hardware	No change
634	2	Vol2 ;7.2.3	122	MSI must ensure that virtual machine is into separate network tenant and virtual LAN. Also, Micro segmentation shall be part of solution architecture which enables the fine grained security policies to be assigned to data center applications down to workload level.	MSI must ensure that virtual machine is into separate network tenant and virtual LAN. Also, Micro segmentation shall be part of solution architecture which enables the fine grained security policies to be assigned to data center applications down to workload level. Micro segmentation should be supported for virtualized and non-virtualized workloads. For virtualized workloads micro segmentation should be supported on atleast top 3 hypervisor vendors i.e. Vmware, Microsoft and Redhat	No change
635	2	Vol2 ;7.2.12	123	MSI must ensure that there is access to VMs if there is a requirement to access it using IPSEC/SSL or any other type of VPN.	MSI must ensure that there is reomte access to VMs if there is a requirement to access it using IPSEC/SSL or any other type of VPN. IPSEC termination/SSL offload should happen on a centralized IPSEC concentrator/SSL Offload device	No change
636	2	Vol2 ;7.2.10	123	MSI must ensure that the public network provisioned for VMs is redundant at every points.	MSI must ensure that the network provisioned for all applications is completely redundant	No change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
637	2	Vol2 ;7.2.7	122	MSI must ensure that ASCL gets ability to map private IP address of VM to public IP address as require from portal	MSI must ensure that ASCL gets ability to map private IP address of VMs hosted on heterogeneous hypervisor environments and bare metal environments to public IP address as per solution requirement. Mapping / NAT should happen at the network perimeter firewall/NAT device layer.	No change
638	2	Vol2 ;7.2.8	123	MSI must ensure that public IP address of VMs remains same even if VM gets migrated to another datacenter due to any incident.	MSI must ensure that application reachability should exist in the event of VM moving to DR	No change
639	2	Vol2 ;7.2.9	123	MSI must ensure that public IP address of VMs remains same even if VM network is being served from DC-DR	MSI must ensure that application reachability should remain irrespective of its location (DC OR DR)	No change
640	2	Vol2 ;7.2.5	122	MSI must ensure that all the managed hosted VMs are in same network segment (VLAN) even if they are spread across DC-DR	MSI must ensure that all the managed hosted VMs are able to communicate between DC and DR and support all application requirements	No change
641	2	Vol2 ;7.2.11	123	MSI must ensure that VMs are accessible from ASCL private network if private links P2P/MPLS is used.	MSI must ensure that all applications are accessible from ASCL if P2P/MPLS is used.	No change
642	2	VOL 2 - 7.3. DR Plan and Implementation, Point no 4&5	125	3. RPO should be less than or equal to 1 hour i.e. the replication cycle should run at maximum 1 hour that needs to be reconsidered as it will be dependent on application to application. 4. RTO shall be less than or equal to 4 hours. 5. During the change from Primary DC to DR or vice-versa (regular planned changes), there should not be any data loss.	MSI is responsible for Disaster Recovery Services, RPO should be less than or equal to 1 hour and RTO shall be less than or equal to 4 hours. Hence Clause No.5 is contradictory, kindly delete this clause.	No change
643	2	Volume I: 7.9.1 Annexure 4 - Bill of Quantity	75	29.Laptops	Kindly Provide the Technical Requirements details for Laptop	Please check corrigendum for technical specifications
644	2			General Queries	Kindly confirm does ASCL requires the Handover of Hardware and Software that will be proposed for setting up of ASCL infra at the DR site after the termination of contract. If yes we suggest that ASCL make use of the SPLA licensing for Cloud to be cost efficient. In case SPLA licenses are opted for the same cannot be handed over to the client post end of contract.	No change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
645	2	Volume 2: Section 7.7.1. Back Up Solution	Page No. 131	Backup Solution	Kindly confirm do we need to provide backup solution at the DR site	Clause is clear in the document
646	2	Volume 2 : Section 7.11	Page no 136	UPS System with N+N Redundancy	Kindly amend the clause to " UPS system with N+1 Redundancy "	No change
647	2	Vol2 - 7 Component 7: DC & DR --- 7.1 Introduction	Page 122	The 'Data Center' (DC) infrastructure catering to all the Components & features of the Agra Smart City – ICT Solutions, will be co-housed in the building identified by ASCL	It's a suggestion from bidder to host the Datacenter on Government Community Cloud which is running as per MeitY guidelines and audited by STQC, rather than building DC on premise, this shall not only facilitate in leveraging a Tier III facility but also to cater future growth, scalability and agility in delivering application	No change
648	2	Volume 2: Section 7.2. Design, Configuration, Installation and Commissioning of DC and DR	Page No. 123	III. Racks to be caged.	III. Racks to be caged or provisioned with biometric access lock"	No change
649	2	Volume 2: Section 7.2. Design, Configuration, Installation and Commissioning of DC and DR	Page No. 123	II. Access to Data Centre Space where the Smart City Project Infrastructure is proposed to be hosted should be demarcated and physical access to the place would be given only to the authorized personnel	II. Access to Data Centre Space where the Smart City Project Infrastructure is proposed to be hosted should be demarcated and physical access to the place would be given only to the authorized personnel	No change
650	2	Volume 2: Section 7.2. Design, Configuration, Installation and Commissioning of DC and DR	Page No. 123	I. There should be dedicated rack space available in the Data Centre for entire smart city solutions / infrastructure.	I. There should be dedicated rack space available in the Data Centre for entire smart city solutions / infrastructure.	No change

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S.No.	Volume	Section	Page	Content in the RFP	Query by the Bidder	Draft Response
651	2	Vol 2, 7.1. Introduction &	122	<p>The Disaster Recovery Centre is a mirror image of all the application hosted at the data center & will be 50% of the Compute however the data of video feeds is to be 100% available in case of Disaster. In case of non-availability of data center, the DR center should be able to operate all the applications for the smart city components. The DR center will have all the functionality and infrastructure similar to the data center.</p> <p>Disaster Recovery Centre will be 50% of Data Centre Site, it is mandatory to have two separate physical location and distance itself through Seismic Zones</p>	Both the clauses are contradictory. Hence kindly delete the highlighted clause.	DC and DR can be in same seismic zone but with separate vendor or at a minimum distance of 10Km.
652	2	Volume II: 9.14 Edge Analytics and Artificial Intelligence with Continuous Learning	264	9.14 Edge Analytics and Artificial Intelligence with Continuous Learning	<p>None of the OEMS having 100 % compliance for the Edge analytics.</p> <p>9.14 -Edge Analytics , It comprise all futuristic solutions (with AI) which are not implemented till date in India. Further these Analytics cannot be implemented at the Edge devices and additional infra which may require to operationalize the analytics hence kindly remove the specification (9.14)</p>	The clause is clear and there is no change in the RFP document
653	2	Vol2 - 7 Component 7: DC & DR --- 7.1 Introduction	Page 122	The Disaster Recovery Centre is a mirror image of all the application hosted at the data center & will be 50% of the Compute	Bidder understands that DR is scaled version of DC (i.e. 50% of the size of primary DC). ASCL to confirm if the compute and other relevant components of the solution are standalone or few are to be considered in HA mode?	Clause is clear and no modification in the RFP document
654	2	Vol2 - 7.2---20	page 123	MSI shall require while architecting the solution which works on the software defined data center conceptualization inside the firewall & further workloads which cannot be virtualized on bare metal or physical server that shall be used for the software defined storage pool	Bidder proposes a platform which is build on the concept of virtualization at compute, storage and network level.	No Change, MSI to decide
655	2	Vol2 - 7.2 --- DC Minimum characteristic--- 1	page 124	Data Centre Availability: The availability of data from the hardware at a location must be guaranteed to 99.982% availability.	Bidder assumes that 99.982% availability is for data center only and not considering the infra, platform and application. Please confirm.	The clause is clear
656	2	General			Bandwidth Topology Required - MPLS, P2P, Internet	MSI shall design the complete Architecture. Technical

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						specifications for the architecture has been provided.
657	2	Volume 2 : Section 7.11	Page no 136	Receiving Power - Commercial Power Substation next to DC	As the said clause is vendor specific, request you to remove the clause from the scope of the RFP	No change
658	2	Volume 2: Section 7.11	Page No. 139-182	All systems	As the DR site would be the Data Center of a MEITY empaneled CSP the infrastructure given such as TOR Switch, On-line UPS, DG Set etc. are already in place and the compliances as given would unnecessarily contribute to additional cost overheads. We request you to kindly remove the given product compliances from the scope of the DR as a service provider.	No change
659	2	Section 1.8 , Xvii	21	All software licenses that MSI proposes shall be perpetual software licenses along with maintenance, upgrades and updates for the currency of the contract.	All software licenses that MSI proposes shall be perpetual/subscription software licenses along with maintenance, upgrades and updates for the currency of the contract.	No change
660	2	Vol2, 7.7.1.xi	129	Qualified hardware from more than 1 server vendor.	All Router, all Switches, all Optics and Servers must be from the same OEM.	No change
661	2	Vol2 - 7.2 --- DC Minimum characteristic--- 4	page 124	On premise DC is required with backup services enabled for required workload.	Bidder assumes that backup of DR is required only during the time DR is invoked. Please confirm.	The clause is clear
662	2	7.8: Enterprise Management System (EMS)	133	7.8.3. Centralized Help Desk System	We suggest that department should proposed helpdesk be Axelos Gold level certified on at least 11 ITIL 2011 processes on all the 15 ITIL processes that are the most mature way to demonstrate that at least three IT organizations : Incident management, Problem Management, Change Management, Knowledge Management, Service Level Management, Service Asset and Configuration management, Service Catalogue and Request Fulfilment, etc. There should be a valid certificate furnished to establish the same.	No change
663	2	7.8: Enterprise Management System (EMS)	132	Generic	We suggest department to consider EMS solution from a single vendor to allow proper integration and information exchange between various EMS Modules and quick implementation time.	No change

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664	2	7.8: Enterprise Management System (EMS)	132	Generic	We believe as an Industry practice, Automatic Remediation plays a vital role in automatically reducing the noise, so as soon as the problem is detected, the root cause should be determined by the management console and a ticket should be created to focus on remediation. Using the automatic remediation of common IT tasks, the fix will be handled automatically in IT data centers. For noncommon IT tasks the same should be escalated to appropriate level. Please confirm if the same needs to be included in the Enterprise Monitoring system.	MSI will finalize all the business and operations flow. This shall be discussed and agreed by all the user of ASCL as well.
665	2	7.8: Enterprise Management System (EMS)	133	Tool must be able to track all network flow (including NetFlow v1-v9, Jflow, Sflow and IPFix) of traffic on the network and identify malicious behavior with all IP to IP and IP to Application conversations	Since malicious or suspicious behavior can be tracked & monitored against the security threat by Security Monitoring solution, hence request to rephrase the same. Pls rephrase the same as : "Tool must be able to track all network flow (including NetFlow v1-v9, Jflow, Sflow and IPFix) of traffic on the network and identify an anomaly/unknown behavior with all IP to IP and IP to Application conversations"	MSI shall provide the desired functionality even though not mentioned in RFP document to ensure complete security and encryptions.
666	2	7.8: Enterprise Management System (EMS)	133	Tool must support logs collected from commercial and proprietary applications. For assets not natively supported, the solution should provide the collection of logs through customization of connectors or similar integration	Since Logs collection & analysis is a separate domain and thus will involve a separate commercial module for the same. Would request you to rephrase the same as : "Tool must support monitoring of commercial and proprietary applications. For assets not natively supported, the solution should provide the monitoring through customization of connectors or similar integration."	No change
667	2	7.8: Enterprise Management System (EMS)	133	7.8.3. Centralized Help Desk System	Should provide analytics feature and should intelligently display an interactive diagram indicating the hot topics among recent incidents so that users can easily discover incident trends and their relative impacts, and identify problem candidates.	No change
668	2	7.8: Enterprise Management System (EMS)	133	Tool must provide the ability to store/retain both normalized and the original raw format of the log data for the period of 3 months and allow to extend it to further without any disruption to the ongoing data collection.	Please rephrase the same as: "Tool must provide the ability to store/retain both normalized and the original raw format of the polled data for the period of 3 months and allow to extend it to further without any disruption to the ongoing data collection." This is proposed in order to optimize the overall TCO of the project & operations.	MSI will finalize all the business and operations flow. This shall be discussed and agreed by all the user of ASCL as well.

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669	2	RfP Page 133 Volume II	7.8. Enterprise Management System (EMS) 7.8.3. Centralized Help Desk System Volume - II	8) The proposed solution should tightly integrate with monitoring system to provide two way integration - E.g. when system down alarm created, it should automatically create ticket and assign it to technician, in case system comes up before ticket is resolved by technician, it should automatically close the ticket to minimize human efforts Helpdesk should have an integrated CMDB to automatically collect and manage accurate and current business service definitions, associated infrastructure relationships and detailed information on the assets	Please rephrase the clause as "8) The proposed solution should tightly integrate with monitoring system to provide two way integration - E.g. when system down alarm created, it should automatically create ticket and assign it to technician, in case system comes up before ticket is resolved by technician, it should automatically close the ticket to minimize human efforts Helpdesk should have an integrated CMDB to provide detailed inventory information of the assets."	MSI will finalize all the business and operations flow. This shall be discussed and agreed by all the user of ASCL as well.
670	2	RfP Page 134 Volume II	7.8. Enterprise Management System (EMS) 7.8.4. Reporting Volume - II	9) Should support automatic base lining on historical data, and thresholds that can be adjusted as required, based on data collected	Alternatively please rephrase the clause as "9) Should provide the facility to administrator to set critical and warning threshold as per requirement.	MSI will finalize all the business and operations flow. This shall be discussed and agreed by all the user of ASCL as well.

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671	2	Central Identity Management Service	Pg 135	This service will handle user life cycle management and governance that will enable all smart cities to manage the lifespan of the user account from its initial stage of provisioning to the end stage of de-provisioning	What is the number of users that would be managed by Identity and Access Management and YoY growth of users (assuming 10%) Please confirm the scope of federation Solution. Provide the number of concurrent number of users accessing the application. Expected number of systems to be protected ? No of end points (applications) and the their types that this IDAM solution would be catering to. i.e. SAP, Linux OS, Windows OS, SOAP, REST applications etc. Model of usage of the application - Will it be used by specific set of users or all users ? Do you have any plan for securing access with multifactor authentication enabled and SSO enabled for web applications Does the Scope of work include end to end user life cycle management ?	MSI to define complete Architecture and shall be able to provide exact user count
672	2	7.7.1	170	Backup Replication at DR site, DC/DR. Replication license should be included as part of solutions.	Replication will be managed by Backup compliance keeping no load on the system. Please accept	The clause is clear and there is no modification in the RFP document.
673	2	7.7.1	170	Backup Solution must offer user/capacity-based licensing. License should be for the front-end capacity rather than back-end. There should be no incremental cost associated with longer retention periods	Please provide details of Front End Capacity	The clause is clear and there is no modification in the RFP document
674	2	VOL 2 3.17. Technical Functions Q. Automatic Number Plate Recognition (ANPR)	64	ANPR.0.11- General Requirement System should capture standard HSRP (high security registration plate, as per Govt of India notification) vehicle's number plates with an accuracy of at least 85% at day time and at least with an accuracy of 80% at night time. (On basis of number of vehicles)	You are requested to keep overall reading accuracy be 80% on all vehicles including two & four wheelers, which is visible by human eye for English Alphanumeric number plates excluding cursive fonts because High Security Registration Plates (HSRP) are not rolled out in Uttar Pradesh and approx. less than 2% vehicles are having HSRP which is on lower side as compared to other number plates. Hence, you are requested to amend the clause.	No change in RFP document although the requirement stands valid for HSRP which is as per Govt of India Notification as and when available and applicable.

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675	2	VOL 2 3.17. Technical Functions R. Red Light Violation Detection (RLVD)	65	RLVD.0.8- General Requirement ANPR provided with RLVD should be capable of also searching for hot listed vehicles during green light. Accuracy of 85% in Day and 80% in Night for Standard HSRP plates.	You are requested to keep overall reading accuracy be 80% on all vehicles including two & four wheelers, which is visible by human eye for English Alphanumeric number plates excluding cursive fonts because High Security Registration Plates (HSRP) are not rolled out in Uttar Pradesh and approx. less than 2% vehicles are having HSRP which is on lower side as compared to other number plates. Hence, you are requested to amend the clause.	No change in RFP document although the requirement stands valid for HSRP which is as per Govt of India Notification as and when available and applicable.
676	2	VOL 2 15.2 Annexure 2: Intelligent Traffic Management System with General Surveillance	307	Wrong Way	Wrong way detection is asked along with locations in RFP but there are no functional, technical specifications and BOM are mentioned, you are requested to incorporate the same in tender.	Please check the corrigendum for revised BoM
677	2	Volume 2 /G. Multi Sensor /Panoramic 360° Camera	54	MSC.009/ Wide Dynamic Range/100 dB or better	True WDR in Fisheye cameras seems to be available with specific OEMS only ,request you to kindly change it to better WDR Capability instead writing their range ,Puporse here camera should have WDR no matter how better they doing through Digital or true.	No change
678	2	Volume II: Scope of Work 9.10.11. Field Responder Mobile	251	9.10.11. Field Responder Mobile Provide Integrated Mobile Application for capturing real-time information from the field response team using Mobile-Standard Operating Procedure. Overall Integrated Operations Platform should account for below solution components, City Tenant activation license with one lakh device connection	"Field Response Mobile" app will be for the field response team only. It will not be accessible to the general citizens. So the Control Room mobile users can not have one lakh value. Please suggest an appropriate number	You may consider for 50 numbers.
679	2	Volume 2 /G. Multi Sensor /Panoramic 360° Camera	54	MSC.005/Maximum Resolution/ 4 K Vision	Please clear this point required 4K Image or 4K equivalent Resolution .i.e (3,840x2,160) which Seems to be available with specific OEMs only.Hence would request to delete this clause.	No change
680	2	VOL 2 3.13. No Helmet Detection System	41	3. System shall have capability to identify and eliminate riders covering their face using scarf and mark them as invalid.	Our understanding is that riders covering their face using scarf but without helmet should be marked as violator. Please confirm.	Yes
681	2	VOL 2 3.15. Mobile Enforcement Solution for Police 3.15.1. Police Vehicles	42	Packed with gear for emergency response vehicles, temporary security installations, wearable tech, and more, Smart Mobile Enforcement arms you for every situation. Keep personnel accountable, track events	Mobile enforcement solution for Police is asked with Surveillance camera only. We request you to please consider the ANPR cameras instead of only surveillance camera so that smart analytics can be performed which will further help Police to	MSI may decide to install ANPR and Surveillance cameras in each of this police van as request from Agra Police.

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				for forensics, and safely secure data for Smart analysis.	monitor the locations where ANPR cameras are not deployed.	
682	2	VOL-II 3.10. Red Light Violation Detection (RLVD) system	36	Request for Addition of Speed Detection System along with RLVD & ANPR System	It is observed that at the stretches, the roads are segregated with barriers and the junctions are normally open that increases the probability of fatal accidents, whenever the vehicles exceed the assigned speed limits in amidst of such stretches. Moreover, in most of the Smart city tenders, city surveillance, safe and Secure which are already floated has asked for Speed detection with RLVD system Suggestion feature. E.g. Vizag, Kakinada, Pune, Ahmedabad, Ranchi etc. Hyderabad ITMS project which is under implementation also has the feature of Speed detection with RLVD system. Hence, it is requested to include speed detection feature (with speed accuracy of ± 3 kmph and should be certified by any certifying body) with the RLVD system and ANPR System which can be achieved at no extra addition of hardware and cost.	If the functionality is available with required hardware than ASCL shall be happy to receive the extra functionality.
683	2	VOL 2 15.2 Annexure 2: Intelligent Traffic Management System with General Surveillance	308	Requirement for Illegal Parking	Illegal Parking is asked along with locations in RFP but there are no functional, technical specifications and BOM are mentioned, you are requested to incorporate the same in tender.	Please check the corrigendum for revised BoM
684	2	Volume 2 /G. Multi Sensor /Panoramic 360° Camera	54	MSC.004/Lens Specs/F2.0, IR Corrected; Options of 2.8/4/8/12/16 MM Lens	For Fisheye we need larger wide angle view to get the best coverage which can be achieved through lesser lense size will help us to achieve more angle thus more coverage as a better lens choice ,Request you to Kindly make an option for 1.5mm Lens as well.	No Change in the RFP document
685	2	Volume II: Invitation to Bidder 7.9.1 Annexure 4 - Bill of Quantity	76	E. City CCTV Surveillance System 1 Fixed Camera + IR Illuminator Nos 790 2 PTZ Camera Nos 326 3 Video Management Software with License (Considering DR) Lot 2	We understand that the total cameras licenses required for the Video Management System = 1116 (fixed camera 790 + PTZ camera 326). Please confirm	MSI to review the scope and calculate

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686	2			Add	We request to allow following for ITMS(ANPR, RLVD SPEED AND HELMET DETCTION)- 2MP , H.264, 1/2.8 CMOS sensor , IR corrected minimum 2 MP lens. IR 20 degrees atleast 20 meters. Or better as used by supplier of ITMS application so as to reach good results/accuracy of ANPR	Functional capability as per RFP should be catered by the cameras.
687	2	For all Cameras - Fixed Box Surveillance Camera (HD) / PTZ (HD) / IP Dome Camera / Multi-Sensor	87	Auto adjustment & Remote Control : Wide Dynamic Range	WDR is measured in db and for true WDR it is 120dB, if True WDR is asked then we can have a better clarity in the areas where Sunlight rays would enter or with low natural light then for the normal cameras it would difficuty to identify the images. So request to ask for True WDR (120db) so that we can can a clear view of the image. So please amend the same	No Change in the RFP document
688	2	Fixed Box Surveillance Camera (HD) / PTZ (HD) / IP Dome Camera / Multi-Sensor - ITMS and SWM	51	Streaming: two (2) stream profiles. Each stream profile should have its own compression, resolution, frame rate and quality independently.	Triple streams provide much more flexibility to users by allowing different data streams to be sent simultaneously. Each stream has independent purposes: <ul style="list-style-type: none"> • The first stream with high resolution and full frame rate can be used for main monitoring. • The second stream with lower resolution can be used for mobile monitoring. • The third stream with high, low, or dynamic resolution offers more flexible choices. So requested to amend the same	No change
689	2	Vol 2/ 4.5.2 Mobile GPS based Staff Attendance Management System	77	1. Mobile device/Smart Phones shall be provided to Staff who are doing activities like door-door collection via Pushcarts / Tricycle / street sweeping	Please specify the quantity of smart phone/mobile device	MSI to determine the technology which best fit the scenario. It can be mix of them.
690	2	For all Cameras - Fixed Box Surveillance Camera (HD) / PTZ (HD) / IP Dome Camera / Multi-Sensor	51	Humidity 10–100% RH (condensing)	This is a brand specific value, this should be general 95% for best optimum performance and better brand	OEM Should able to sustain all the Temperature and Humidity as per city condition
691	2	Volume 2/15.2. Annexure 2: Intelligent Traffic Management System with General Surveillance	307	Requirement for Illegal Parking Camera Count : 46	There is no separate line item for Illegal Parking car Please clarify which surveillance cameras are to	Indicative locations for Illegal Parking are provided. MSI to provide exact count as per Survey and deploy surveillance cameras as per given specifications.

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692	2	Vol 2/ 4.3 Scope of Work	75	10) Mobile Apps for both Android & iOS for Citizens for complaint and Door to Door Solution and also integrate with Meragra Citizen App or other available SWM Solution	Is there any mobile app for SWM? If so, then please provide APIs.	Mobile App for SWM is available (ANN as well from Ministry). This has to be integrated in current context and shall extend when Meragra Application is available.
693	2	Multi Sensor /Panoramic 360° Camera - Vol 2	54	a. Maximum Resolution: 4 K Vision b. Image Sensor Minimum 4 x 2MP, 1/3.2" CMOS - (Total) 8 MP or better	a. The Standard resolution is 4096 x 1800 which is standard and available with major OEMS. So requested to amend the same. b. The Standard image resolution is 1/1.9" 2Megapixel progressive scan CMOS which gives a wide angle view. So requested to amend the same.	No change
694	2	Volume_2: Scope of Work 3.17. Technical Functions U. Camera Specification for Police VAN with NVR	69	4. Image Sensor: 1/2.8" CMOS or better	The Size of the Sensor determines how much light it uses to create an image, so bigger sensor can gain more information than a smaller one and produce better images. Thus, requesting, to ammend the clause to Image Sensor: 1/2" CMOS or better	No change
695	2	For all Cameras - Fixed Box Surveillance Camera (HD) / PTZ (HD) / IP Dome Camera / Multi-Sensor	50	Image Sensor with WDR: 1/3.2" with True WDR, Progressive CMOS Sensor or better	The Size of the Sensor determines how much light it uses to create an image, so bigger sensor can gain more information than a smaller one and produce better images. Due to outdoor enviornment, the camera must have true WDR 120dB feature to avoid dark image of the object which is obtained under the influence of strong light source in the background. Thus, avoid such darkness over the area of interest under the sunlight. Thus, requesting to ammend the clause to Image Sensor with WDR: 1/2.8" with True 120dB WDR, Progressive CMOS Sensor or better	No change
696	2	Volume_2: Scope of Work 3.11. E Challan System	37	5) Integrating and networking the system with state-of-the-art hardware and application software for Traffic Police to access and use information in their day-to-day work.	The red light violations reports will provide the information about the vehicle which has violated the law, thus, Integrating and networking the system with state-of-the-art hardware and application software for Traffic Police to access and use information in their day-to-day work is not required, thus, requesting to remove the clause.	No change

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697	2	Volume 2: Scope of Work 3.17. Technical Functions R. Red Light Violation Detection (RLVD) RLVD.003.	65	General Requirements: System should generate Alarms at control room software if any signal is found not turning RED within a specific duration of time.	The proposed system is for Red Light Violation , which will give alerts when a red light is viloaded , this is the sole purposed of the system, thus, reuesting to remove this clause.	This is to ensure that if ATCS Controller fails to alarm the even than RLVD system is capable to generate alert when Traffic Signal is not functional.
698	2	For all Cameras - Fixed Box Surveillance Camera (HD) / PTZ (HD)	53	To be added	The main aim to install PTZ is to surveillance long distance. Thus, IR distance should also be better and internal to ensure clear image in night vision. Thus, requesting to kindly add inbuilt IR Range-200 meter	OEM and MSI shall decide whether IR is inbuilt or external. ANPR and RLVD systems functionality to be met as per scope of work defined.
699	2	IP Dome Camera IPDC.004 Fixed Dome Camera for Indoor Surveillance FDCIS.006	53	a. Lens: Min 3 to 10 mm fixed/vari-focal lens with Remote focus b. Lens: Fixed IRIS 2.8-10mm, F1.7, 10x digital zoom	a. The lens size which is normally available with all the major and reputed manufacturers is 2.8~12mm. It also determine the overall optical zoom ratio, also, it is recommended to have a motorized lens.Thus, requesting you to kindly ammend the Lens: Min 2.8 to 12 mm vari-focal lens with Remote focus b. The lens size which is normally available with all the major and reputed manufacturers is 2.8~12mm. It also determine the overall optical zoom ratio, also, it is recommended to have a motorized lens.Thus, requesting you to kindly ammend the Lens: Fixed IRIS 2.8-10mm, motorized,F1.7, 10x digital zoom	No Change
700	2	Surveillance Camera - PTZ (HD) - Vol 2	52	lens specs: Compatible to image sensor, Focal length 4.7-141m, Auto Iris, Full HD (1080P), F/1.6, IR Corrected – Day / Night mode- Colour	The lens focal length mentioned is for the particular OEM as different OEM's have different focal length which matches with optical zoom. So requested to ammned the the focal length and derive a range which may suit with different OEM's and not restricting it to particular OEM's. Different focal length have better angle of view so please ask for "xx" optical with range to be derived.	No change in the RFP document. Although as per document 4.3 to 129m or 4.7 to 121m are acceptable

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701	2	Technical Functions R. Red Light Violation Detection (RLVD) and Q. Automatic Number Plate Recognition (ANPR)	66	To be added	Technical specifications of the ANPR and RLVD system is not mentioned in the tender, please help to provide the same.	RLVD functional specifications are provided in the document. For cameras, MSI to select from given specifications of camera.
702	2	vol2 -t E challan	68	ECHH 12 Director thermal print 3 inch	request you to please accomodate 2 inch as its quiet enogh and easy to carry for police man	No change
703	2	vol 2 3.13	41	No helmet detection	Request to remove the same Justification: It is not working technology as of now.. And in indian traffic the false detction will be very high (you can compare it with plate data data where coordinate are more clearer).	No change in the RFP document. This is functional requirement of city.
704	2	Surveillance Camera - PTZ (HD) and Pan Tilt Zoom CCTV Cameras	53	To be added	Privacy masking is a feature found in many IP cameras which is used to protect personal privacy by concealing parts of the image from view with a masked area. Thus, requesting you to add the Privacy Mask 24 for PTZ camera. Privacy masking : 24 programmable privacy masks	No change in the RFP document.
705	2	vol2		clarification	Please provide specfications of Speed enforcement system if it is part of tender including certifications requirement if any like OIIML R 91 , Wlemec 7.2, legal decree and test reports etc. please also suggest Qty and specs	There is no speed enforcement system mentioned in the RFP.
706	2	Volume_2: Scope of Work 3.17. Technical Functions D. Surveillance Camera - PTZ (HD) PTZ.005.	52	Lens specs:Compatible to image sensor, Focal length 4.7–141m, Auto Iris, Full HD (1080P), F/1.6, IR Corrected – Day / Night mode- Colour	Please note it is better have more zoom so as to be able to focus on specific person/object to the identification level. So we recommend to consider upgradation of Higher end of Focal length more than 200m Lens specs:Compatible to image sensor, Higher end of Focal length more than 200m , Auto Iris, Full HD (1080P), F/1.6, IR Corrected – Day / Night mode- Colour	No change in the RFP document

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707	2	Volume_2: Scope of Work 3.17. Technical Functions U. Camera Specification for Police VAN with NVR	70	19. Lens Type 4.7 – 94mm, 20x motorized, Autofocus,Autoiris, Varifocal	Please note it is better have more zoom so as to be able to focus on specific person/object to the identification level. So we recommend to consider upgradation of Higher end of Focal length more than 130m,23x motorized Thus, requesting to ammend the clause to Lens Type: Higher end of focal length should be more than 130mm, 23x motorized, Autofocus,Autoiris, Varifocal	No change
708	2	Volume_2: Scope of Work 3.17. Technical Functions U. Camera Specification for Police VAN with NVR	71	To be added	Please help to add Technical specifications of Mobile NVR , as same has not been mentioned in the tender.	Technical Specifications are already provided in RFP Volume 2 on page 70.
709	2	Volume - II : 3.17. Technical Functions, O - Pole for Cameras - Junction Box	61	All the junction boxes shall be out door type with IP65 protection from rain, water. Provision for theft prevention. (Expected outdoor temperature 500C). Side panels in double walled construction with air gap of minimum 20 mm between two walls with PU foamed(Gasketing) for IP 55 protection. Painting: Electro-phoretic dip coat priming to 20 Microns and then powder coated to RAL 7035 textured Pure Polyester (PP) to 80 to 120 Microns. powder coated with surface finishing nano coating, for the best possible surface protection and corrosion resistance.	Please clarify the IP Protection rating to be considered for the Junction Box.	No Change
710	2	Volume 2 Section 3.17-H- IRI.002	55	General	Please be more specific with usage of IR illuminator Specifications to be clarified as achieving a 60 degree with single IR illuminator is not possible,,hence more illuminator may be required. Also if the fixed camera with integrated IR housing, still does this require an illuminator. Also please clarify if IR illuminators are Cameras as well since no quantity is mentioned in B	OEM and MSI shall decide whether IR is inbuilt or external. ANPR and RLVD systems functionality to be met as per scope of work defined.

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711	2	Camera - Multi Sensor, PTZ, Pan Tilt, IP Dome		a. Multisensor Camera : Frame Rate 15fps or better b. PTZ and IP Dome Camer : Frame Rate : min. 25 FPS or higher	a. Please ask for real time image with 25fps frame rate (1~25fps). To get the clear and real image. Please ask for 25fps. B. Please ask for 50/60fps @ 2Mp so that no incident can capture the image or incident. As camera is to be used for capture so its recommended for the same. So please	No Change
712	2	Vol 2/ 4.6 Technical Specification (G. Pan Tilt and Zoom CCTV Cameras for SWM)	87	G. Pan Tilt and Zoom CCTV Cameras for SWM:	CCTV Camera is not mentioned in the BoQ (Section SWM). Please specify quantity required for the same.	Numbers stands valid as per Garbage Collection Vehicles
713	2	Vol.2/ 3.17 Technical Specs.	55	Pixel Requirements -The pixel pitch shall be not more than 16 mm.	The pixel pitch shall be not more than 10 mm.	MSI shall propose to have minimum pixel for better clarity on this VaMS and hence shall not be greater than 10mm.
714	2	Vol.2/ 3.17 Technical Specs.	55	Pixel Density - Minimum 3096 pixel / m2	Minimum 10,000 pixel / m2	MSI shall propose to have appropriate density within pixel for better clarity on this VaMS and hence specified at 10000 pixel / m2
715	2	For All Cameras	53	H.265 and H.264 /Motion - JPEG compression	H.265 is not yet mature technology in the market and also not standardized/recommended by any authority like ONVIF. Along with that, advanced/smart compression technologies have come up in H.264 only which give much better resolution without compromising video quality so request you to kindly remove H.265 compression technology.	H.264 High Profile and above shall be considered
716	2	Multi Sensor /Panoramic 360° Camera Page- 54, Vol2	54	Colour: 0.6 lux or better, Monochrome: 0.05 Lux or better with IR	Kindly amend to Color: 0.3 lux only and allow quality players to take part in the bid. Also allow IR Internal/External. Exclude Monochrome	No Change
717	2	Volume_2: Scope of Work 3.11. E Challan System 3.11.1. Functional Requirements of E Challan System	37	12) GUI should be Multi lingual i.e. English and Hindi	It is recommended to have standard language in the system which will be easy and convenient to understand, thus, requesting to amend the clause to GUI should be Multi lingual i.e. English	No change

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718	2	Volume_2: Scope of Work 3.17. Technical Functions U. Camera Specification for Police VAN with NVR	70	23. Illumination: Color: 0.05 lux, F1.6 B/W: 0.01 lux, F1.6 At 30 IRE Inbuilt IR (60 mtrs. or better)	It is recommended to have more IR range for the PTZ camera, thus,requesting to ammend the clause to Illumination: Color: 0.05 lux, F1.6 B/W: 0.01 lux, F1.6 At 30 IRE Inbuilt IR (150 mtrs. or better)	No change
719	2	Volume_2: Scope of Work 3.13. No Helmet Detection System	41	4) System shall integrate with challan generation software and RTO database to generate challans for No-Helmet violation event with details like violation image, time stamp, date, vehicle number.	It is recommended to have challan generation software for No Helmet violation event with details like violation image, time stamp, date,vehicle number and not with the RTO database.Thus, requesting to ammend the clause to System shall integrate with challan generation software for No Helmet violation event with details like violation image, time stamp, date,vehicle number	System should be able to integrate with RTO Database either through Software or Directly via exposed API.
720	2	For all Cameras - Fixed Box Surveillance Camera (HD) / PTZ (HD) / IP Dome Camera	88	To be added	It is recommended to have Built in Edge analytics in the cameras to have efficient performance, also, as cameras are going to be installed at crucial locations shpuld have analytics like camera tampering ,motion detection, Line crossing, Intrusion Detection, Face Detection, Region Entrance and Region Exit Detection is recommended to have in the cameras.Thus, requesting to add the below clause : Detection of camera tampering , Line crossing, Instrusion Detection, Face Detection, Region Entrance, Region Exit and Detection of Motion should be edged based	It is accepted to all additional use cases to be available either through edge based or software based
721	2	3.17. Technical Functions T. E Challan Handheld device:	68	T. E Challan Handheld device:	Inorder to have economic solution, handheld device is not necessary, thus, requesting to remove this section.	No change
722	2	Volume 2	Page 60 of 324	N. Pole for Cameras- Complainece	if any external agencies approval required (like IIT/NIT) same shall be borned by ASCL.Kindly confirm	All cost to be borne by MSI

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723	2	For All Cameras	54	Power Supply- POE IEE 802.3af compliant	High performance outdoor multi sensor cameras use multiple camera modules to function appropriately with the required processing power for edge analytics as well. In such cases POE power may not be sufficient, POE in such specialised product should be made optional for fair competition. Request you to kindly amend this clause as " MSC.011- Power Supply- POE+/AC24V/DC12V "	Accepted. MSI can change in the optics and modules to cater the power requirement
724	2	For All Cameras	86	Video Compression & Resolution : H.264 or better & 1920 X 1080	H.265 is not yet mature technology in the market and also not standardized/recommended by any authority like ONVIF. Along with that, advanced/smart compression technologies have come up in H.264 only which give much better resolution without compromising video quality so request you to kindly remove H.265 compression technology.	Video Compression and resolution shall be consider for H.264 High Profile and above.
725	2	Volume_2: Scope of Work 4.6. Technical Specifications For All Cameras	88	Certification UL / CE / FCC / EN	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	Please check the corrigendum for revised specifications
726	2	Volume 2 - T. E Challan Handheld device:	69	ECHH.016 Camera 3 MP Min	Camera resolution be increased to 8 Mega Pixel with Flash	No change

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727	2	Volume_2: Scope of Work 3.17. Technical Functions U. Camera Specification for Police VAN with NVR	70	To be added	As the cameras are going to be installed in the mobile environment, it is recommended to have below standard certifications for Vibration and Protection, thus, requesting to add the below clause: Vibration and Protection: EN50155:2007, IEC6008-2-1, IEC6008-2-2, IEC6008-2-30, IEC6008-2-64 IEC61373, IK 10 vandal proof to IEC 60068	No change
728	2	Vol.2/ 3.17 Technical Specs.	55	Display Requirements - Luminance of VaMS's should meet industry criteria for daytime and night time conditions	Luminance of VaMS's should be minimum 6000 Nits Calibrated	No Change
729	2	Volume_2: Scope of Work 3.11. E Challan System 3.11.1. Functional Requirements of E Challan System	37	13) It should be possible to integrate as an enhancement when required for payment gate way operator with the system for facilitation of payment	All the citizens who violated the red light violation, do not have facility to provide payment gate way operator as they prefer to pay the penalty by cash, thus, requesting to remove the clause.	It is about integration applicability through available APIs
730	2	Volume_2: Scope of Work 3.17. Technical Functions D. Surveillance Camera - PTZ (HD)	53	To be added	Auto tracking function, allows PTZ to track suspicious person/object loitering in vacant area. Thus it increases the efficiency of security surveillance. Auto-tracking feature is applicable for PTZ as it enables the camera to detect any progressively moving object and follow it within the camera's area of coverage without fault. Thus, requesting you to add the Smart Tracking: Manual Tracking, Auto Tracking, Event Tracking clause.	All additional use cases as support from Camera are acceptable.
731	2	VOL II I. Variable Message Sign Board – VaMS	56	LED Configuration : R/G/B 3 in 1 SMD	LED Configuration : 1R/1G/1B DIP	LED Configuration should be 1R/1G/1B DIP
732	2	Volume 1 Video wall for command & control centre VWCCC. 013	271	Diagonal: 50 "	Request you to consider Diagonal 70" or higher so that other OEM can qualify .	Dimensions of Screen can be 50 or 70 inch.

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733	2	VOLUME 2/SECTION 3.17/ TECHNICAL FUNCTION/VARIABLE MESSAGE SIGN BOARD VaMS S/No VaMS 019	56	Dimming Capabilities - Minimum 64 Levels	Typicall 10 Stage dimming is provided and is adequate to take care of field requirements	No change
734	2	Master System Integrator – Volume 2: Video Content Analytics VAS.016 ,Features	280	<p>7) Attribute Based Search</p> <p>a. Track a specific person across several surveillance cameras. The application shall allow access to all relevant associated VMS recordings with following.</p> <p>b. Search initiators:</p> <ul style="list-style-type: none"> o VMS recorded content; o Photographic images i.e. System shall also provide the option to initiate such search just by clicking on the image of a human during video playback; o Artificial sketch builder allowing selection of various attributes i.e. body color, body figure, Hair styles, Texture and color of cloths, various accessories i.e. Spectacles, Shoes, bag/suitcase, Tie etc. <p>c. When initiating a query by VMS recorded content, the operator shall be able to initiate the query for a specific VMS video channel and time range in order to get results of extracted individual's thumbnails from the image database that was generated in real-time by the analytics application.</p> <p>d. The application shall support a list of at least 20 different textures types.</p> <p>e. The application shall support map images and GIS maps.</p>	<p>To be removed.</p> <p>"We suggest to remove this clause as these alarms can give large number of false alarms on its inaccurate working"</p>	<p>This is a madatory requirement of the city police in accordance with Facial Recognition System to solve issues of "Lapka" which is important.</p> <p>The requirement is to track person of interest over several cameras in a specific area, initiated by the operator so no false alarms expected.</p>
735	2	vol -II	247	9.10.1. ICCC Operations	<p>Request you to remove the clause.</p> <p>Solution event engine shall at minimum allow ingestion and processing of 10,000 events a second and provide a mechanism to scale to 100,000 events a second .</p> <p>How do you calculate the no of Events landing at</p>	<p>There are many tools which are commercial and open source to test the number of events landing on the CCC layer. The tools vary based on the test conditions or pattern being verified. The tests of events per</p>

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					CCC layer incase of multiple sensors	second may be done in commodity hardware being asked in the RFP.
736	2	VOLUME 2/SECTION 2.6/ ADAPTIVE TRAFFIC MANAGEMENT SOFTWARE	30	The ATCS system shall also be provided with a mobile application to provide congestion and network state information to the citizens using data from the ATCS system.	Mobile application interface is not part of CoSiCoSt technology handed over to ToT partners by CDAC. To be included as futuristic requirement after undertaking by CDAC	The application shall be provided as deliverable directly or through integrations.
737	2	VOLUME 2/SECTION 2.6/ LED ASPECTS CLAUSE 3	30	Red, Green-Pedestrian (300 mm diameter): Hi Flux with mask or Hi-Brite with discrete LEDs with suitable mask/stencil	Mask is required only for Hi-Flux LEDs. Pedestrian with discrete LEDs doesn't require any mask. Please correct	No change
738	2	Master System Integrator – Volume 2: Scope of Work, 15.1. Annexure 1: Junctions for Intelligent and Adaptive Traffic Signals	305	Annexure 1: Junctions for Intelligent and Adaptive Traffic Signals	Kindly specify the type of junction also (3,4 or 5 ARM), to finalize the BoQ for ATCS	Details already provided in Annexure of Volume 2
739	2	VOLUME 2/ SECTION 2.5/ TRAFFIC SIGNAL CONTROLLER CLAUSE 1	27	The controller should support the required number of phases and stage for 3-way, 4-way and 5-way junctions for operation during different times of the day and day of the week and for special day types	In order to have level palying field for all bidders, typical layout with MINIMUM quantity of Junction items(Poles/Aspects/CDT/Camera etc) needs to be provided	MSI to conduct survey and provide BoM as per indicative.
740	2	Volume II: Scope of Work 9.12. Video Analytics – Functional Specifications	263	9.12. Video Analytics – Functional Specifications § Attribute Based Search	Please suggest how many channels do we need to consider Attribute based search analytics?	250 cameras to be considered.
741	2	vol2, section 9.10.6	249	Software shall provide SOP's in English and Hindi language	Please remove this clause as most of the OEM supports english. This will allow maximum OEM participation	Software should have the capability to support both English and Hindi SOPs. Hence No Change
742	2	Vol2, section 9.8	242	IOP solution should be capable of seamless integration to various government and emergency services such as law enforcement, disaster and emergency services, utility services etc., the proposed solution should support recording of external mobile video feeds, data communication, telephony etc.,	Clause says recording of various sub systems like Telephony, video , mobile feed, Etc. which is may not practically possible. Please remove this clause as individual subsystem will have this functionality . Recording and storing all data from all sub systems into IOP will reduce the performance of IOP Platform.	Recording is part of the overall IOP "solution" and not necessarily be done by "IOP "Platform". Recording is critical in order to replay the event and the response process.

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743	2	Volume II: 9.11 VMS functional specifications	254	Point 32) VMS shall support integration with the ANPR/RLVD system	<p>1. As per the mentioned point we understand that VMS system should be integrated with the proposed ANPR/RLVD system. The mentioned point is related with integration capability only. Kindly Confirm.</p> <p>2. Kindly clarify any VMS license to be considered for ITMS cameras</p>	<p>1. Should be possible to integrate VMS with ANPR/RLVD if required. SDK of VMS as well as ANPR/RLVD should be available for the integration.</p> <p>2. All ITMS cameras to be recorded in the proposed VMS. ITMS applications can pick up the recordings from the VMS. VMS shall provide its SDK to ITMS vendor for developing this integration</p>
744	2			TO ADD	<p>: Please Add: FORWARD FIRING Please suggest if Radar has to be Forward Firing or Side Firing. We strongly recomend to add FORWARD FIRING .The sensor should provide object separation capability where many vehicles are closely spaced, i.e. in multi-lane scenarios with dense traffic, like traffic jams, stop-and-go traffic and busy intersections</p> <p>Resons : Side firing has a very narrow beam..whereas forward firing has multiple beams so that vehicles remain in the field of view for longer time position, speed vectors and other informations are more precise. It provides very good coverage and no occulsion scenerios - 2nd Installtion is more flexible</p> <p>One sensor should be able to replace minimum 24 loops and should provide</p>	<p>Below clause has been added in smart detector : FORWARD FIRING .The sensor should provide object separation capability where many vehicles are closely spaced, i.e. in multi-lane scenarios with dense traffic, like traffic jams, stop-and-go traffic and busy intersections</p>

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745	2	Vol2	30 and 31	integrated data and presence sensor has been referred as video and micorwave with details specs	please clarify if it has to be radar/microwave or Video. Also as per page 24.. It seems that RFQ requires to have a very effective Adaptive system. The sensor should work in adverse conditions, almost unaffected by weather (FOG, RAIN, DARK)and independent of sunlight and should be able count vehicles, do classification, have stop line and approach traffic of 175 meters minimum etc with very good separation capabilities. we strongly suggest to use 4D HD resolution microwave sensors and delete video. Per Vehicle Data should be updated within 100 ms	Yes it should be 4D radar with proper legal decree certification from ministry of transport.
746	2	2.6	29	Adaptive Traffic Management Software (ATMS) would be chosen which implements SCOOT (Split Cycle & Offset Optimization Techniques), CoSiCoSt (Composite Signal Control Strategy) or any other dynamic signal timing plan selection or adaptive system that uses near-real-time detector data. ATCS must be chosen to provide accuracy as required for successful functioning of ATMS as per SLAs defined. ATMS software should have a centralized user interface accessible from control room and it should support remote /manual operation of traffic signals from control room. In addition, ATMS software should support selective vehicle (fire engines, ambulances and VIP vehicles) priority at traffic signals using GPS data.	It is requested to specify the need of solution instead of asking Techniques where SCOOT and CoSiCoSt are too specific which may vary as per conditions in Agra City.	Adaptive Traffic Management Software (ATMS) would be chosen on real time traffic flow modelling capability with the capacity to calculate traffic flows, OD movements, and queues and turning movement along entire primary road transport network in the defined study area covering the ATMS junctions and the connecting road network. ATMS software should have a centralized user interface accessible from control room and it should support remote /manual operation of traffic signals from control room. In addition, ATMS software should support selective vehicle (fire engines,

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						ambulances and VIP vehicles) priority at traffic signals using GPS data.
747	3	Volume -3	13	Furnishing by MSI, an unconditional and irrevocable Performance Bank Guarantee of 10% of the contract value (PBG) and acceptable to ASCL which would remain valid until such time as stipulated by ASCL.	PGB validity period not specified and proposed PBG valid contract Period only. We request the department to specify the same please.	No modification in the RFP document
748	3	12.2	14	ASCL has engaged MSI to provide services related to implementation of Smart City solutions using which ASCL intends to perform its business operations. MSI is required to provide such goods, services and support as ASCL may deem proper and necessary, during the term of this Contract, and includes all such processes and activities which are consistent with the proposals set forth in the Bid, the RFP and this Contract and are deemed necessary by ASCL, to meet its business requirements (hereinafter 'scope of work').	Scope of work means scope explicitly agreed between the Parties and all sweeping statement like consistent/ reasonably necessary shall to be removed. Hence we request the department to remove this clause.	No modification in the RFP document
749	3	Volume 3 , Clause 26.2	22	If the MSI is a Joint Venture / Consortium of two or more firms, the Lead Partner in charge and each other Party to the extent of their respective scopes, shall be jointly and severally liable to ASCL for the fulfilment of the provisions of the Contract.	Similar justification as earlier point no. 1, to enable us bid as part of consortium. Please change as follows: If the MSI is a Joint Venture / Consortium of two or more firms, the Lead Partner in charge and each other Party to the extent of their respective scopes, shall be jointly and severally liable to ASCL for the fulfilment of the provisions of the Contract. Consortium members will be responsible and liable only for their scope of work.	No modification in the RFP document
750	3	29.1	23	Termination by ASCL for MSI's default: (Please refer the entire clause)	<ul style="list-style-type: none"> • We propose only if MSI commits material breach and having been notified, MSI fail to cure breach within 30 days • Risk purchase cost shall in no event exceed 110% of the value of the affected services • ASCL alone shall not have the right to deduct 	No modification in the RFP document

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					money	
751	3	Vol.3,29. Termination	23	if the MSI fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to GCC Clause 28 (Suspension) within thirty (30) days of receipt of such notice of suspension or within such further period as ASCL may have subsequently granted in writing;	In case of termination ,CLIENT agrees to pay BIDDER for all fees and expenses incurred for Services provided hereunder through the effective date of termination.	No modification in the RFP document
752	3	29.3	28	Termination for convinience by giving notice to MSI.	We request deparment to provide notice of 60 days in addition to the fee for the services rendered till date , MSI shall be entitled to recover all its committed and non – cancellable cost incurred on behalf of customer pursuant to this Agreement	No modification in the RFP document
753	3	30	30	Consequences of termination (Please refer the entire clause)	Transition assistance plan and cost thief shall be mutually agreed between ASCL & MSI. Scope and cost thereof can only be agreed when exact scope is known.	No modification in the RFP document
754	3	Vol-3, 54. Taxes	33	ASCL reserves the right to interview the personnel proposed that shall be deployed as part of the project team. If found unsuitable, ASCL may reject the deployment of personnel. But ultimate responsibility of the project implementation shall lie with MSI.	It is suggested to replace the clause with following clause: ASCL reserves the right to interview the personnel proposed that shall be deployed as part of the project team. If found unsuitable, ASCL may reject the deployment of the personnel with reasons. But ultimate responsibility of the project implementation shall lie with MSI and atleast 30days shall be given to MSI to provide changed resource	No modification in the RFP document
755	3	32.5	33	MSI shall ensure that none of the Key Personnel and manpower exit from the project during first 6 months of the <u>beginning</u> of the project.	We request ASCL not to keep any restriction especially in a fix price contract, MSI to provide suitable replacement in this case.	No modification in the RFP document
756	3	32.6	33	MSI should submit profiles of only those resources who shall be deployed on the project. Any change of resource should be approved by ASCL and compensated with equivalent or better resource.	We request the department remove this clause.	No modification in the RFP document

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757	3	Vol.3,32.11	34	All the software licenses that MSI proposes should be perpetual software licenses. The software licenses shall not be restricted based on location and ASCL should have the flexibility to use the software licenses for other requirements, if required.	If any external agencies approval required (like IIT/NIT) same shall be borned by ASCL.Kindly confirm	For the duration of support, license has to be valid and at time of closing the project it has to be extended by 5years. Simultaneous with all of these, there should be relevant updates and upgrades.
758	3	Volume III, 32.11	34	All the software licenses that MSI proposes should be perpetual software licenses. The software licenses shall not be restricted based on location and ASCL should have the flexibility to use the software licenses for other requirements, if required.	The software licences can be perpetual, but cannot be unrestricted. Request you to please revise this clause to "All the software licenses that MSI proposes should be perpetual software licenses. ASCL should have the flexibility to use the software licenses for other requirements in Agra, if required."	No modification in the RFP document
759	3	32.16	35	The Licenses will be in the name of ASCL only.	We request ASCL to sign EULA with OEM in this case.	No modification in the RFP document
760	3	Vol 3 Reporting Progress	37	All the goods, services and manpower to be provided / deployed by MSI under the Contract and the manner and speed of execution and maintenance of the work and services are to be conducted in a manner to the satisfaction of ASCL's representative in accordance with the Contract.	It is suggested to replace the clause with following clause: All the goods, services and manpower to be provided/deployed by MSI under the Contract and the manner and speed of execution and maintenance of the work and services are to be conducted as per project timelines and in accordance with the terms of Contract.	No modification in the RFP document
761	3	Vol 3 Reporting Progress	38	The submission seeking approval by ASCL or ASCL's representative of such plan shall not relieve MSI of any of his duties or responsibilities under the Contract.	It is suggested to replace the clause with following clause: The submission seeking approval by the ASCL or ASCL's representative of such plan shall not relieve MSI of any of his duties or responsibilities under the Contract. <i>However, extension of timelines be given to the MSI, wherever such delay results in non-performance at MSI's end</i>	No modification in the RFP document
762	3	35.3	41	MSI and Affiliates Not to Engage in Certain Activities: The MSI agrees that, during the term of this Contract and after its termination/completion, the MSI and its Affiliates, shall be disqualified from providing consultancy related to the Services, for the implementation of the Smart City ICT Components Project.	We request ASCL to remove/delete this clause.	No modification in the RFP document

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763	3	36.3	42	This limitation of liability shall not affect MSI liability, if any, for damage to Third Parties caused by MSI or any person or company acting on behalf of MSI in carrying out the Services.	We request and propose this clause to be deleted / or modified to should be limited to tangible property damage and death and or personal injury	No modification in the RFP document
764	3	36.2	42	Except in case of gross negligence or willful misconduct on the part of MSI or on the part of any person or company acting on behalf of MSI in carrying out the Services, MSI, with respect to damage caused by MSI to ASCL's property, shall not be liable to ASCL: (i) for any indirect or consequential loss or damage; and (ii) for any direct loss or damage that exceeds (A) the total payments payable under the Contract to MSI hereunder, or (B) the proceeds MSI may be entitled to receive from any insurance maintained by MSI to cover such a liability, whichever of (A) or (B) is higher.	We request clarity in this clause as 36.1 excludes all indirect damages, however 36.2 makes Bidder liable for indirect damages in certain conditions. Further, we request department to remove/delete sub clause B.	No modification in the RFP document
765	3	Volume 3	42	Limitation of Liability	We understand bidder's limitation of liability is upto 100% on total contract value. Please confirm	No modification in the RFP document
766	3	45.7	47	Please refer clause	Eventually Bidder is responsible for delivering the project and for delay etc. customer has the right to impose LD etc. Hence, to be deleted.	No modification in the RFP document
767	3	Volume -3 - 49.3	49	49.3 Payments shall be made promptly by ASCL, but in no case later than forty-five (45) days after submission of a valid invoice by the MSI.	We request the department to include standard Deemed acceptance of invoice clause wherein ASCL must convey to successful bidder in case of any issues with the invoice within 7 days from the date of issue of invoice post which it is deemed to be accepted.	No modification in the RFP document
768	3	Volume -3 - 49.3	49	49.3 Payments shall be made promptly by ASCL, but in no case later than forty-five (45) days after submission of a valid invoice by the MSI.	We request the department to to amend the same to "Payments shall be made promptly by ASCL, but in no case later than 30 days after submission of a valid invoice by the MSI."	No modification in the RFP document
769	3	Volume 3	49	F. Payment to the MSI	Payment Invoicing :- We request you to confirm that payment shall be released within 30 days of submission of invoice.	No modification in the RFP document
770	3	Volume -3 - 52.1	51	ASCL shall make payments to MSI at the times and in the manner set out in the Payment schedule as specified Payment Milestones subject to the liquidated	We request the department amend the clause as "ASCL shall make all efforts to make payments to MSI within 30 days of receipt of invoice(s) and all necessary supporting documents".	No modification in the RFP document

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				damages and penalties as mentioned under GCC Clause 89 and GCC Clause 100 respectively. ASCL shall make all efforts to make payments to MSI within 60 days of receipt of invoice(s) and all necessary supporting documents		
771	3	Vol-3, 54. Taxes	53	54.2 MSI shall bear all taxes and duties etc. levied or imposed on MSI under the Contract. It shall be the responsibility of MSI to submit to the concerned Indian authorities the returns and all other connected documents required for this purpose. MSI shall also provide ASCL such information, as it may be required in regard to MSI's details of payment made by ASCL under the Contract for proper assessment of taxes and duties. The amount of tax withheld by ASCL shall at all times be in accordance with Indian Tax Law and ASCL shall promptly furnish to MSI original certificates for tax deduction at source and paid to the Tax Authorities.	However in case of any changes in taxes rates i.e. GST, Custom duties, levies etc shall be account of Authority e.g. In case of decrease in tax rates i.e. GST , basic custom duties, levies etc. the resulting benefit be passed on to the Authority and in of increase in tax rates, the impact of such increase be account of to the Authority i.e. increase in prices	No modification in the RFP document
772	3	Vol-III	53	Taxes 54.1 MSI shall bear all personnel taxes levied or imposed on its personnel, or any other member of MSI's Team, etc. on account of payment received under this Contract. MSI shall bear all corporate taxes, levied or imposed on MSI on account of payments received by it from ASCL for the work done under this Contract.	what about the increase of existing tax rates or introduction of new taxes due to statutory changes	No modification in the RFP document
773	3	Vol.3,G-INTELLECTUAL PROPERTY	54	Intellectual Property Rights	Request confirmation of the following, please: Bidder will be licensing Bidder's pre-existing IPR (IP in the application) to Department for use for the purpose of the RFP. IPR on such pre-existing IP will be retained by Bidder. Bidder would also retain any IPR that is developed independently during the engagement. IPR of customization that are unique for the project developed exclusively for department will be transferred to department	IPR for any new solution or customization done for Agra/ASCL during the course of project shall belonged to ASCL.

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					by Bidder	
774	3	Volume III, 61.2	61	4. Adaptive Traffic Signals and Management System: D+4 months	For 62 junctions, the time provided is too low and it cannot be executed within that time. Request you to change this to T+9 months.	Please check the attachment for revision
775	3	65.1	66	At any point during performance of the Contract, should technological advances be introduced by the MSI for Information Technologies originally offered by the MSI in its bid and still to be delivered, the MSI shall be obligated to offer to ASCL the latest versions of the available Information Technologies having equal or better performance or functionality at the same or lesser unit prices, pursuant to GCC Clause 23.	Version agreed in BOM to be provided, unless parties agree otherwise.	No modification in the RFP document
776	3	Vol-III	76	The Defect Liability (Warranty) Period shall commence from the date of Operational Acceptance of the System and shall extend for the length of time specified in the SCC.	DLP initiation from the date of the partial acceptance of the facility	No modification in the RFP document
777	3	Vol.3,83. Force Majeure	84	Force Majeure	Any delay/fault caused due to force majeure event should be unconditionally excused by the department. Bidder and Client agree to take reasonable actions to minimize the effects of any such event or circumstances and use its commercially reasonable efforts to restore performance as soon as commercially practicable following the cessation of such event."	No modification in the RFP document
778	3	Vol.3,87-Time is the essence	89	Time shall be of the essence in respect of any date or period specified in this Contract or any notice, demand or other communication served under or pursuant to any provision of this Contract and in particular in respect of the completion of the activities by MSI by the specified	Bidder should be excused for any delay caused due to unforeseen reasons/not solely attributable to the bidder.	No modification in the RFP document

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				completion date.		
779	3	Vol3,88. Delivery	89	MSI shall bear the cost for packing, transport, insurance, storage and delivery of all the goods for implementation of Smart City Solutions for Agra city at all locations identified by ASCL in Agra, Uttar Pradesh.	Request confirmation that ASCL will provide any necessary approval required to the bidder for the delivery of Goods at different locations. Any departmental approvals required also be be facilitated by ASCL. Moreover, only the items identified and approved as part of this RFP requirements will be handled by the bidder, after due diligence and mutual consent.	ASCL will provide and facilitate for necessary approval.
780	3	90.1	90	Please refer clause	We request ASCL to remove this clause.	No modification in the RFP document
781	3	Vol. 3/ 100.6.3.1	98	Network components (availability for a month is defined as total time (in minutes) in a month less total down time (in minutes) in a month excluding planned network downtime.	ASCL to confirm the minimum required SLA uptime of the network links is 98.5% without any penalty.	No modification in the RFP document
782	3	Volume III, 100.6.4	106	6. Repair/replacement of field/CCC/OCC/DC/DR infrastructure Within 4 business hours of logging compliant	This will not be possible for traffic signals and VMSs as repair or replacement during peak traffic hours will disrupt traffic operations. Request you to change the clause for field equipment in the traffic domain to "Within 8 business hours of logging compliant"	No modification in the RFP document

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783	3	Assignment Clause (new Clause proposed) :	-	Assignment Clause (new Clause proposed) :	<p>“The Contractor shall not, without the express prior written consent of the Employer, assign to any third party the Contract or any part thereof, or any right, benefit, obligation or interest therein or there under, except that the Contractor shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract to any Financial Institution(s) or Bank(s) or NBFC(s).</p> <p>In the event the Contractor assigns the monies due and payable to it or that may become due and payable to it, under the Contract, to any Financial Institution(s) or Bank(s) or NBFC(s), the Employer shall acknowledge the intimation letter it may receive from such financial institution(s) or Bank(s) or NBFC (s). If the Employer does not reply within 15 days of the receipt of the intimation letter, it can be considered as “acknowledged by the Employer”. Furthermore the Employer will provide an indicative date by when the funds will be released to the Contractor as a measure of comfort for the decisions of Financial Institution(s) or Bank(s) or NBFC(s)”.</p>	No modification in the RFP document