ROURKELA SMART CITY LIMITED

Rourkela Municipal Corporation,
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Ref.: RFP. No. RSCL/110/2018/411, Dated: 12 July 2019

Response to Pre-Bid Queries

This has reference to Request for Proposal (RFP) published on 12-07-2019 regarding "Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela"

Following responses have been provided to the pre-bid queries raised by the bidders to the RFP No. RSCL/110/2018/411 dated 12.07.2019:

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1	1	1.4 Fact sheet	6	The method of selection is L1. The contract will be awarded to the bidder quoting the lowest 'total price' post technical qualification. Prices exclusive of any applicable taxes, levies etc. will be considered for arriving at L1 price.	We recommend authority to modify this as a QCBS bid in 70:30 weightage for technical and commercial respectively, since smart city projects requires innovations and dynamism and also involves solution development and integrations. Thus least cost method of selection adopted will restrain bidders from giving preference to quality.	As per RFP
2	1	1.4 Fact sheet	6	The method of selection is L1. The contract will be awarded to the bidder quoting the lowest 'total price' post technical qualification. Prices exclusive of any applicable taxes, levies etc. will be considered for arriving at L1 price.	The MSI tender is a huge capex intensive project which would involve high level of technical expertise and therefore should be given weightage in award of contract. Also the POC of the solution comes under technical evaluation and should also be a major factor in the acceptance of solution. Request you to award the contract on QCBS (70:30) basis instead of least cost for better evaluation.	As per RFP

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3	1	1.4 Fact sheet	6	The method of selection is L1. The contract will be awarded to the bidder quoting the lowest 'total price' post technical qualification.	Since this is a pan-city project which requires substantial expertise in the subject matter to implement effectively, request you to change the evaluation criteria to Quality cum Cost Based evaluation (QCBS). This would restrict different players from compromising with the quality of the solution design and products, since an L1 evaluation criteria would encourage solutions which are cheaper and technologically inferior.	As per RFP
4	1	1.4 Fact sheet	6	Prices exclusive of any applicable taxes, levies etc. will be considered for arriving at L1 price.	We understand that the price bids from different bidders will be evaluated by the evaluation committee as Quoted value without taxes, duties or levies etc. (GST, excise, customs, and any other taxes/duties). Kindly Confirm.	As per RFP
5	1	1.4 Fact sheet	6	Last date for submission of hard copy of documents – 1 Original and Copy + CD/DVD: The Chief Executive Officer, Rourkela Smart City Limited, Uditnagar, Rourkela-769012, Sundergarh, Odisha	Request you to amend the clause as below, Last date for submission of hard copy of documents – 1 Original and 1 Copy + CD/DVD: The Chief Executive Officer, Rourkela Smart City Limited, Uditnagar, Rourkela-769012, Sundergarh, Odisha	As per RFP
6	1	2.1 General	9	The bidder shall submit within 3 days of online submission, Bid documents in the hard copy format to Client signed by the authorized signatory of bidder, which should match with the bid submitted online. The documents submitted online shall be considered as final and binding in case of any mismatch with the hard copy documents.	Request you to amend the clause as below: The bidder shall submit within 7 days of online submission, Bid documents in the hard copy format to Client signed by the authorized signatory of bidder, which should match with the bid submitted online. The documents submitted online shall be considered as final and binding in case of any mismatch with the hard copy documents.	As per RFP
7	1	2.2 Eligible Bidders	9	The Consortium would also be responsible for ensuring the successful execution of	The lead bidder along with all Consortium members shall be jointly and severally	As per RFP

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				integrated solution including meeting the SLAs. The list of Consortium Members needs to be declared in the bid which cannot be changed by the bidder later on	responsible for the project execution. The other consortium members shall be severally liable for their respective scope and roles as specified in the project. Kindly clarify - Is it the consortium/ the partner alone (who does not meet the SLA) would be liable for the damages if the SLAs are not met Or Successfully meeting the SLA shall be the responsibility of the Lead member only.	
8	1	2.2 Eligible Bidders	9	The lead bidder along with all Consortium members shall be jointly and severally responsible for the project execution	Kindly Modify the clause as below: "Lead bidder is responsible and liable for full scope of work & Consortium Member is responsible and liable for their scope of work"	As per RFP
9	1	2.9 Forfeiture of EMD	12	The EMD shall be forfeited and appropriated by the Client as mutually agreed genuine pre-estimated compensation and damages payable to the Client for the time, cost and effort of the Client, without prejudice to any other right or remedy that may be available to the Client under the RFP or in law under the following conditions: · If a Bidder withdraws or modifies its bid during the bid validity period or any extension agreed by the Bidder thereof; · If a Bidder is disqualified in accordance with Clause 2.22;	Forfeiture of the EMD should happen only when (1) a bidder withdraws / modifies a bid before the bid validity ends or (2) If the Bidder tries to influence the evaluation process or engages in corrupt, fraudulent, coercive or undesirable practice or restrictive practice. In all other cases the bid should be disqualified and the EMD returned. Reference to clause 2.22 should be removed.	As per RFP
10	1	2.11 Contents of Bid	13	All the pages of the bid must be sequentially numbered. The bid documents must contain in the beginning of the document, a list of contents with page numbers. Any deficiency in the	Kindly amend the clause as below, All the pages of the bid must be sequentially numbered. The bid documents must contain in the beginning of the document, a list of contents with page	As per RFP

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				documentation may result in the rejection of the Bid.	numbers. ~~Any deficiency in the documentation may result in the rejection of the Bid.~~ Any deficiency in the documentation Authority shall demand an explanation to the Bidder, if the bidder fails to justify within the specified time then the Authority shall reject the bid after due diligence	
11	1	2.11 Contents of Bid	13	Each bid must be typed or written in indelible ink and an authorized representative of the Bidder shall sign the bid and physically initial and stamp all pages of the Bid.	Kindly amend the clause as below, An authorized representative of the Bidder shall sign the bid and physically initial and stamp all pages of the Bid in the Original copy and the balance 4 copies (excluding commercials) shall be photocopies of the originals. Also the online bid submission need not have initial and stamp as it is uploaded through digital signature. Kindly confirm.	As per RFP
12	1	2.17 Deviations and Exclusions	18	The bidder shall submit a No Deviation Certificate as per the format specified in Section 8.14. The bids with deviation(s) are liable for rejection.	We assume the no deviation is for technical and commercial clauses. Please allow legal deviations at least on MSA /General Condition of Contract which may be negotiated between RSCL and the successful Bidder at the time of MSA/Contract signing. It may not be possible for RSCL or the MSI to accept all MSA/Contract clauses currently and could be negotiated only at the time of Contract signing. Bid submission of list of deviations are now being allowed in many RFPs and same can be shared upon request.	As per RFP
13	1	2.19 Late Bids	18	Client reserves the right to modify and amend any of the above-stipulated condition/criterion.	Request you to amend the clause as below, Client reserves the right to modify and amend any of the above-stipulated	As per RFP

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					condition/criterion post discussion with the bidder.	
14	1	2.22 Acceptance and Disqualification/ Rejection of Bids	19	If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send explanations. On the above lines, Client reserves the right to take appropriate action which needs to be agreed by the Bidder. If the bidder does not agree to the decision of Client, the bid is liable to be disqualified.	Request you to amend the clause as below, If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send explanations. On the above lines, Client reserves the right to take appropriate action within the contractual condition of the RFP, which needs to be agreed by the Bidder. If the bidder does not agree to the decision of Client, the bid is liable to be disqualified and the EMD of the bidder would be returned.	As per RFP
15	1	2.27 Sub-Contracting	23	The bidder would be allowed to sub-contract for the following: Cabling and fixtures work, and all civil and electric work during implementation Facility Management Staff at Command & Communications Centre At least 5% of the value of Total Project Cost (supply and installation cost as well as recurrent cost) to a local firm registered in the state of Odisha · Sub-contracting shall be allowed only with prior written approval of Client. However, even if the work is sub-contracted, the sole responsibility of the work shall lie with the lead bidder. The lead bidder shall be held responsible for any delay/error/non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to the Client. · A list of all sub-contractors that the bidder	Keeping in mind the complexity of this project, we recommend sub-contracting of work to entities with expertise in similar domain to ensure timely and cost effective execution of the project. Also, for the bidders to get accurate information regarding definition of subcontractor, request you to please include the following under the section - "2.27. Sub-contracting": "For the purposes of these Bidding Documents, a Subcontractor is any vendor or service provider with whom the Bidder contracts for the supply or execution of any part of the System to be provided by the Bidder under the Contract (such as the supply of major hardware, software, or other components of the required Technologies specified, or the performance of related Services, e.g., software development, installation, customization, integration, commissioning, training,	As per RFP

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				proposes to sub-contract the works mentioned above shall be set out as per format provided in Section 9.17 along with an undertaking as specified in Section 9.18. Note: The bidder may be allowed to change any sub-contractor during any stage of the contract, only with prior approval from the client.	technical support, maintenance, repair, etc.)."	
16	1	2.27 Sub-Contracting	23	At least 5% of the value of Total Project Cost (supply and installation cost as well as recurrent cost) to a local firm registered in the state of Odisha	kindly request you to amend the clause as follows: At least 5% of the value of Total Project Cost (supply and installation cost as well as recurrent cost) preferably to a local firm registered in the state of Odisha	As per RFP
17	1	2.28 Inclusion of MSMEs in Project Delivery	23	Bidders should earmark a minimum of 20 % of the total contract for procuring goods and services from MSME/MSEs.	In order to provide the best goods and services, request that a stringent condition be not placed for the value of project to be earmarked for MSME/MSEs. Instead, the total volume of work to be awarded to MSME/MSEs be left to the discretion of the bidder.	As per RFP
18	1	2.29 Eligible Goods and Services, and OEM Criteria	24	OEM for Command Control Software/Platform should have deployed at least 1 Smart City solution in India. In addition, the same OEM should have deployed similar solution in 2 or more locations globally (including India).	Sir As you know that Smart City is a new concept in India and still many cities projects are in the bidding phase. So it is not possible for many OEMs to give smart city project reference. Kindly consider below parameter as asked in other smart cities like Biharshariff smart city, Bhagalpur Smart city, Amritsar Smart city, Ludhiana Smart city, Jalandhar Smart city, Pimpri Smart city, Pune Smart city, etc. a. OEM for the ICC Software Platform should have a registered office in India and should be directly present for the last 3 years, from date of RFP publication. They should also have a development center in	As per RFP

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				India. b. OEM for ICCC Software should have deployed at least one project in state government/ Government, Defence in India or globally.		
19	1	2.29, Eligible Goods and Services, and OEM Criteria	24	OEM for Command Control Software/Platform should have deployed at least 1 Smart City solution in India. In addition, the same OEM should have deployed similar solution in 2 or more locations globally (including India).	Request to please amend this clause to "OEM for Command Control Software should have deployed at least one Smart City solution in India or globally. In addition, the same OEM should have deployed similar solution 3 or more locations globally". This will help administration to get stable and proven platform.	As per RFP
20	1	2.29 Eligible Goods and Services, and OEM Criteria	24	Proposed OEM for any technology should not have filed for bankruptcy and should be profitable for at least last 2 consecutive financial years	We understand that the intent of asking for the profitability of the OEM is to ensure that the OEM is financially capable. However, profitability is not the exact measure of Financial Capability of the organization as it could be misleading (Organization making Re. 1 as a profit will also qualify) but Networth is a Stronger Parameter. We would also like to highlight that OEMs for ICCC Software which are, only in the business of ICCC Software and not any other product, and are also Make in India are making huge investments in R&D which results them rendering non-profitable for their initial years. We (completely Make in India) are fully compliant to ICCC software Technical & Functional requirements specified in the RFP with positive Networth for the last 2 consecutive Financial Years. Therefore, it is humbly requested to either delete the requirements of Profitability in	As per RFP

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					this clause for larger participation of Make in India OEMs for ICCC Software in line with the Guidelines of Government of India OR Change the clause to "Proposed OEM for any technology should not have filed for bankruptcy and should have positive Networth for at least last 2 consecutive financial years &/or also should be profitable for at least one year out of the last 2 consecutive Financial Years".	
21	1	2.29 Eligible Goods and Services, and OEM Criteria	24	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. Bid will be rejected in case of any non-complied product/ solution proposed. All goods or products quoted by the Bidder must be associated with item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the Bidder.	Please confirm the following section is not applicable for FR on Cloud site, Since DR has been demanded on MeiTY cloud and RSCL environment will be deployed as per MeiTy guidelines	As per RFP
22	1	2.29. Eligible Goods and Services, and OEM Criteria	24	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. Bid will be rejected in case of any non-complied product/ solution proposed. All goods or products quoted by the Bidder must be associated with item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the Bidder.	Since as System Integrator, We are responsible to meet the technical specification and SLA levels for the entire technical Solution. In this regard we propose multiple makes which are technically equivalent and would meet RFP requirements. 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	As per RFP

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					support the Si in times and therefore the costs go up considerably. 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. 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.	
23	1	2.29 Eligible Goods and Services, and OEM Criteria	24	The proposed OEM should not have been blacklisted by any State / Central Government Department or Central /State PSUs.	Requesting you to amend the clause for security constraints as: The proposed OEM should not have been blacklisted by any State / Central Government Department or Central /State PSUs and Globally	As per RFP
24	1	2.29 Eligible Goods and Services, and OEM Criteria	24	The proposed OEM should have installed base of at least 20% of the quantities proposed in the BoM for the quoted product or technology globally (including India).	Kindly relax this condition for ANPR and RLVD software OEM.	As per RFP
25	1	2.29 Eligible Goods and Services, and OEM Criteria	24	Independent Software Vendor (ISV) shall have implementation base of minimum 3 similar projects globally (including India) in areas including ICCC, DB,AI analytics, ERP etc.	Sir As you know that Smart City is a new concept in India and still many cities projects are in the bidding phase. So it is not possible for many OEMs to give smart city project reference. Kindly consider below parameter as asked in other smart cities like Biharshariff smart city, Bhagalpur Smart city, Amritsar Smart city, Ludhiana Smart city, Jalandhar Smart city, Pimpri Smart city, Pune Smart city, etc. a. OEM for the ICC Software Platform	Please refer to Corrigendum.

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					should have a registered office in India and should be directly present for the last 3 years, from date of RFP publication. They should also have a development center in India. b. OEM for ICCC Software should have deployed at least one project in state government/ Government, Defence in India or globally.	
26	1	2.29. Eligible Goods and Services, and OEM Criteria	24	Independent Software Vendor (ISV) shall have implementation base of minimum 3 similar projects globally (including India) in areas including ICCC, DB,AI analytics, ERP etc.	Please describe how this clause different than the clause "OEM for Command Control Software/Platform should have deployed at least 1 Smart City solution in India. In addition, the same OEM should have deployed similar solution in 2 or more locations globally (including India)". Otherwise requirements under this clause should be removed for ICCC ISV.	Please refer to Corrigendum.
27	1	2.29 Eligible Goods and Services, and OEM Criteria	24	Independent Software Vendor (ISV) shall have implementation base of minimum 3 similar projects globally (including India) in areas including ICCC, DB,AI analytics, ERP etc.	The OEM eligibility criteria is favouring Global OEMs and not encouraging Indian OEMs. Our Honourable Prime minister is espousing the cause of make in India and this criteria is in variance with the PM's National perspective and vision. We therefore request you to kindly modify this clause as" Independent Software Vendor (ISV) providing all software shall have implemented the software at least in one operational smart city project in India. Evidence shall be provided by way of a performance report from the client.	Please refer to Corrigendum.
28	1	2.29. Eligible Goods and Services, and OEM Criteria	24	Independent Software Vendor (ISV) shall have implementation base of minimum 3 similar projects globally (including India) in areas including ICCC, DB,AI analytics, ERP etc.	Please describe how this clause different than the clause "OEM for Command Control Software/Platform should have deployed at least 1 Smart City solution in India. In addition, the same OEM should	Please refer to Corrigendum.

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					have deployed similar solution in 2 or more locations globally (including India)". Otherwise requirements under this clause should be removed for ICCC ISV.	
29	1	2.29. Eligible Goods and Services, and OEM Criteria	24	Independent Software Vendor (ISV) shall have implementation base of minimum 3 similar projects globally (including India) in areas including ICCC, DB,AI analytics, ERP etc.	Kindly clarify that it is limited to ICCC and AI Analytics only as ERP is removed and etc. will not include any other software	Please refer to Corrigendum.
30	1	2.30 Right to vary quantity by Client	24	Repeat orders for extra items or additional quantities may be placed, if it is provided in the bidding document, on the rates and conditions given in the contract if the original order was given after inviting open competitive bids.	We request that the right for repeat orders should have a time limit i.e. 1 year or so. The authority should pay incremental % difference on the USD INR conversion rate with respect to bidding date for all IMPORTED Items. This is because currency fluctuations are not in control of bidder	As per RFP
31	1	3.4.3 Stage 3: Commercial Evaluation	28	Opex cost should be all inclusive of the costs of necessary goods such as spare parts, software license renewals, labour etc. needed for the continued and proper operation of the system. The Opex cost (O) shall be reduced to the net present value (NPV) and determined using the following formula: $O \equiv \Sigma Ox(1+I)xMx=1$ where M = number of years of the Operation and Maintenance period as defined Section 1.4 (Fact Sheet Sl. # 18) x = an index number 1, 2, 3, ... M representing each year of the Operation and Maintenance service period. Ox = total Opex Costs for year "x", as recorded in the 'OPEX Summary Table'. I = discount		As per RFP

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32	1	4.1. Negotiations	29	· The negotiations will be held at the date and address as informed by the Client. · The Client shall prepare minutes of negotiations which will be signed by the Client and the Bidder's authorized representative. · If the negotiations fail, the Client shall inform the first/highest ranking Bidder in writing of all pending issues and disagreements and provide a final opportunity to the first/highest ranking Bidder to respond. If disagreement persists, the Client shall terminate the negotiations informing the first/highest ranking Bidder of the reasons for doing so. Upon termination of the negotiations with the first/highest ranking Bidder, the Client may invite the next-ranked Bidder in terms of price to negotiate the Contract with the Client or annul the bid process, reject all Proposals and invite fresh Proposals. If the Client commences negotiations with the next best price Bidder, the Client shall not reopen the earlier negotiations.	Since the Smart City bids are competitive and evaluation is based on stringent qualifications, it allows only Bidders with required capability and reasonable experience to participate. Also considering the competency requirements and deliverables, we request that the successful bidder be awarded the contract at the quoted prices. As per CVC guidelines Case 8 VR 3, negotiation with L2 bidder is not permitted in this case. Please confirm.	Please refer to Corrigendum
33	1	4.2 Award of Contract	29	As an acceptance of the LoA, the Bidder shall sign and return a duplicate copy of the LoA to Client or the agency designated by the Client. The bidder shall return the duplicate copy along with a Performance Bank Guarantee within 15 working days from the date of issuance of LoA	Please give enough time to the SI to prepare and submit the PBGs. PBG texts should mutually negotiable as Bank has its own rules and guidelines and need clarity to be there in the texts to avoid any delay in processing the request of beneficiary in terms of claim . SI can submit the approved PBGs within 10 working days from the date of approval of PBG text by the beneficiary.	As per RFP

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34	1	4.3 Performance Bank Guarantee (PBG)	29	Within fifteen (15) working days from the date of issuance of LoA, the successful Bidder shall at his own expense submit unconditional and irrevocable Performance Bank Guarantee (PBG) to the Client.	Please give enough time to the SI to prepare and submit the PBGs. PBG texts should mutually negotiable as Bank has its own rules and guidelines and need clarity to be there in the texts to avoid any delay in processing the request of beneficiary in terms of claim . SI can submit the approved PBGs within 10 working days from the date of approval of PBG text by the beneficiary.	As per RFP
35	1	4.3 Performance Bank Guarantee (PBG)	29	Within fifteen (15) working days from the date of issuance of LoA, the successful Bidder shall at his own expense submit unconditional and irrevocable Performance Bank Guarantee (PBG) to the Client. The PBG shall be from a Nationalized Bank or a Scheduled Commercial Bank in the format prescribed in Section 11 - Annexure 5 (a), payable on demand, for the due performance and fulfilment of the contract by the bidder	The PBG should be submitted on the day of signing of the contract (Master Service Agreement).	As per RFP
36	1	4.3 Performance Bank Guarantee (PBG)	29	This Performance Bank Guarantee shall be for an amount equivalent to 10% of total contract value.	Instead of one PBG of 10% of the contract value. We request RSCL to ask for two PBGs; details of which are as follows: 1. 1st PBG for 10% of the Total Capex Cost of the contract and to be valid beyond 3/6 months of Go-Live. 2. 2nd PBG for 10% of the Total Opex Cost of the contract and to be valid for 3 months beyond the contract period. Two or more such PBGs are now being allowed in many RFPs and same can be shared upon request.	As per RFP

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37	1	4.3 Performance Bank Guarantee (PBG)	30	PBG shall be invoked by Client, in the event the Bidder: fails to meet the Service Level Agreements (SLAs) as mentioned in RFP Volume III or any changes agreed between the parties,	In such cases, penalty should be imposed as per the provisions of the contact. PBG should not be invoked.	As per RFP
38	1	4.3 Performance Bank guarantee	30	The performance bank guarantee shall be valid for a period of 60 days beyond the date of completion of all contractual obligations, including O&M.	Request you to confirm whether ,initially we can provide PBG up to period of 3.5 years along with the letter mentioning that PBG will be extended for future required period before expiring this BG	As per RFP
39	1	4.3 Performance Bank Guarantee (PBG)	30	Client shall notify the bidder in writing of the exercise of its right to receive such compensation within 40 days, indicating the contractual obligation(s) for which the bidder is in default. After 40 days of notice, if the bidder fails to rectify the default, Client shall also be entitled to make recoveries from the bidder's bills, performance bank guarantee, or from any other amount due to him, an equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction or misstatement	We request RSCL to serve a cure period of 60 days, in which the MSI has to comply with the contractual obligation(s) before invoking the Performance Security. Please include Bidder's right to terminate for non-payment of dues in time and right to claim late payment interest @ 1.5% per month.	As per RFP
40	1	4.4 Warranty & Maintenance	30	Bidder shall also provide complete maintenance support for all the proposed integrated solution as outlined in this RFP for a period of Sixty months from the date of go-live i.e. "Go-Live" + 60 months. "Go-live" is the date on which the proposed solution is completely operational as per the requirements provided in this RFP	Request for solution wise Go-Live as Go Live in on go is very difficult and might extend for very long if any site(s) are not available. Also in case of prolonged delay in making site available even for one solution Go Live should be calculated for the no of sites up and ready. Even the delivery should happen segregated based on the site readiness confirmation from customer.	As per RFP
41	1	4.4 Warranty & Maintenance	30	During the warranty period, the bidder shall warrant that the goods supplied under the contract are new.	Also warranty should be for one year from Go Live and remaining periods should be covered under AMC.	As per RFP

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42	1	4.5 Failure to agree with the Terms & Conditions of the RFP	31	•Failure of the successful bidder to agree with the Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of the award, in which event Client may award the contract to the next best price bidder or call for new bids. • In such a case, Client shall invoke the PBG and/or forfeit the EMD.	There should be provisions for the bidder to have a window of discussion on aspects which is unearthed at the time of response preparation process and in principle asks for a broad based open discussion and mutual agreement. This is the single most important piece to enable the SI to focus and achieve the broad based delivery goals without the pressures of undue Financial, Legal and Scope worries. Hence bidder would request to kindly consider the deviations which can be discussed and mutually agreed upon. Request the Clause be modified as: If the successful bidder fails to mutually agree with the Terms & Conditions and sign the agreement.	As per RFP
43	1	5. Pre-Qualification Criteria #1 Bidder Profile	32	The Sole Bidder OR Consortium • Maximum 4 members including the lead bidder are allowed in a Consortium • Sole Bidder, or in case of a consortium, the lead bidder should be registered in India under Companies Act 1956/2013 or as amended or a firm or limited liability partnership registered in India. • The Sole Bidder or the Lead Bidder in case of a consortium should be in operation for a period of at least five (5) years as on published date of RFP • In case of a consortium, in addition each member other than the lead partner shall be in operation for a period of at least two (2) years) as on published date of RFP	We request RSCL to allow Global companies to participate as Lead Bidder and modify the clause under: # 1 - Bidder Profile Eligibility Criteria The Sole Bidder OR Consortium • Maximum 4 members including the lead bidder are allowed in a Consortium • Sole Bidder, or in case of a consortium, the lead bidder should be registered in India under Companies Act 1956/2013 or as amended or a firm or limited liability partnership registered in India. Or Registered Abroad under any other Suitable Act.	As per RFP

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				• One of the Firms would be designated as a "Lead Bidder". The lead bidder along with all Consortium members shall be jointly and severally responsible for the project execution. The other consortium members shall be severally liable for their respective scope and roles as specified in the project. The lead bidder shall ensure and be liable for the overall performance of the project, including delivery of products and services mentioned in this RFP. • Other consortium members should be registered in India under Companies Act 1956/2013 or as amended or a firm or limited liability partnership registered in India Or Registered Abroad under any other Suitable Act • None of the member of a given JV/Consortium can be a member of another JV/Consortium for submitting this same bid otherwise all the bids comprising the same member shall stand disqualified. However, a sub-contractor can be a member of more than one JV/ Consortium	• The Sole Bidder or the Lead Bidder in case of a consortium should be in operation for a period of at least five (5) years as on published date of RFP • In case of a consortium, in addition each member other than the lead partner shall be in operation for a period of at least two (2) years) as on published date of RFP • One of the Firms would be designated as a "Lead Bidder". The lead bidder along with all Consortium members shall be jointly and severally responsible for the project execution. The other consortium members shall be severally liable for their respective scope and roles as specified in the project. The lead bidder shall ensure and be liable for the overall performance of the project, including delivery of products and services mentioned in this RFP. • Other consortium members should be registered in India under Companies Act 1956/2013 or as amended or a firm or limited liability partnership registered in India Or Registered Abroad under any other Suitable Act • None of the member of a given JV/Consortium can be a member of another JV/Consortium for submitting this same bid otherwise all the bids comprising the same member shall stand disqualified. However, a sub-contractor can be a member of more than one JV/ Consortium.	

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44	1	5. Pre-Qualification Criteria	32	-	We request RSCL to consider Bidders Project experience of Ten Years, instead of Five years and modify the clause 5. Pre-Qualification Criteria and Clause 6.1. Technical Bid Evaluation Criteria.	As per RFP
45	1	5. Pre-Qualification Criteria, #1 Bidder Profile	32	One of the Firms would be designated as a "Lead Bidder". The lead bidder along with all Consortium members shall be jointly and severally responsible for the project execution. The other consortium members shall be severally liable for their respective scope and roles as specified in the project. The lead bidder shall ensure and be liable for the overall performance of the project, including delivery of products and services mentioned in this RFP.	Requesting authority to revise the clause such that members of consortium shall be liable and responsible for the scope of work undertaken by them as per the consortium agreement.	As per RFP
46	1	5. Pre-Qualification Criteria, #2 Bidder Turnover	33	The average annual Turnover (TO) in Indian Rupees (INR) for last 3 audited financial years (2015-16, 2016-17 and 2017-18). • For Sole Bidder – INR 400 Cr • For Consortium Lead member should have minimum average annual Turnover (TO) of INR 240 Cr All the Consortium members including the Lead Bidder should meet INR 400 Cr TO requirement • Lead member or Consortium members shall be into one of the following specific business areas. Specific Business Areas ICT Infrastructure IT System Integration Services ICT Solution Implementation	Requesting authority to amend the turnover requirement as below for a wide participation: "The average annual Turnover (TO) in Indian Rupees (INR) for last 3 audited financial years (2015-16, 2016-17 and 2017-18). • For Sole Bidder – INR 200 Cr • For Consortium Lead member should have minimum average annual Turnover (TO) of INR 120 Cr All the Consortium members including the Lead Bidder should meet INR 200 Cr TO requirement • Lead member or Consortium members shall be into one of the following specific business areas. Specific Business Areas ICT Infrastructure	As per RFP

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					IT System Integration Services ICT Solution Implementation"	
47	1	5. Pre-Qualification Criteria, #2 Bidder Turnover	33	The average annual Turnover (TO) in Indian Rupees (INR) for last 3 audited financial years (2015-16, 2016-17 and 2017-18).	Requesting to allow bidder to use the audited financials of preceding last three years i.e. (2014-15, 2015-16 & 2016-17), if their financial year (FY 2017-18) auditing is under process and in that case, submit a declaration for non-submission of financials for the said year. Since for most of the international companies, their financial year is from January to December of a year, we request the authority to allow foreign bidders to use their audited financial statements in years 2015, 2016, 2017. Please confirm.	As per RFP
48	1	5. Pre-Qualification Criteria, #3 Bidder Net Worth	33	The Net Worth (NW) in Indian Rupees (INR) as on 2017-18 financial year end • For Sole Bidder: INR 100 Cr • For Consortium Lead member should have minimum INR 60 Cr NW Each of the other members should have positive Net Worth All Consortium members including the lead bidder together should meet INR 100 Cr NW requirement	Kindly amend the net worth criteria in case of consortium as applicable to lead bidder only. Please amend as below: "The Net Worth (NW) in Indian Rupees (INR) as on 2017-18 financial year end • For Sole Bidder/Lead Bidder: INR 100 Cr"	As per RFP
49	1	5. Pre-Qualification Criteria, #3 Bidder Net Worth	33	The Net Worth (NW) in Indian Rupees (INR) as on 2017-18 financial year end	Requesting to allow bidder to use the audited financials of preceding last three years i.e. (2014-15, 2015-16 & 2016-17), if their financial year (FY 2017-18) auditing is under process and in that case, submit a declaration for non-submission of financials for the said year. Since for most of the international	As per RFP

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					companies, their financial year is from January to December of a year, we request the authority to allow foreign bidders to use their audited financial statements in years 2015, 2016, 2017. Please confirm.	
50	1	5. Pre-Qualification Criteria, #4 Bidder Standing	33	The sole bidder OR the Lead bidder and each of the member of the Consortium, sub-contractor and OEMs (As per categories list given in Technical Bid Format, Section 2.12.2 – Sl # 11) should not be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) in India as on the bid submission date Affidavit by the bidder (In case of Consortium to be provided by each member), sub-contractor and OEM Please refer to section 8.9	Request to amend as follows: The sole bidder OR the Lead bidder and each of the member of the Consortium, sub-contractor and OEMs (As per categories list given in Technical Bid Format, Section 2.12.2 – Sl # 11) should not be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) in India as on the bid submission date Affidavit by the bidder (In case of Consortium to be provided by each member) and sub-contractor. Please refer to section 8.9	Please refer to Corrigendum
51	1	5. Pre-Qualification Criteria, #7-11	34-35	………………………………during last five (5) years	Request you to please modify this clause as " ……………………………..during last seven (7) years from 31.03.2019"	As per RFP
52	1	5. Pre-Qualification Criteria, #7-11	34-35	General Query for both Pre-Qualification Criteria & Technical Bid Evaluation Criteria	Requesting authority to kindly allow bidders to use projects executed in last 7 years from the date of bid submission, so that bidders can showcase their vast experience.	As per RFP
53	1	5. Pre-Qualification Criteria, #7 Bidder Experience: ICCC	34	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster	Request following modifications on the PQ clause. Our position is GPS and RFID are also sensors. Bidder Experience: ICCC The Bidder (any member in case of consortium) shall have experience in	As per RFP

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				Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years.	implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA / GPS / RFID) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years.	
54	1	5. Pre-Qualification Criteria, #7 Bidder Experience: ICCC	34	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years.	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least two (2) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last Seven (7) years. Justification: As there are less projects of similar nature are implemented by government during last five years and this smart city program is developed 4 years	As per RFP

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					back only no of projects implemented by any prospective bidders are less so we request you to please consider last 7 years from bid submission date.	
55	1	5. Pre-Qualification Criteria, #7 Bidder Experience: ICCC	34	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years.	Requesting to kindly amend the criteria by considering projects with integration below mentioned areas also: Data centre, OFC connectivity. Kindly amend the clause as: The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA/ Data centre/ OFC connectivity.) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last seven (7) years.	As per RFP
56	1	5. Pre-Qualification Criteria, #7 Bidder Experience: ICCC	34	The Bidder (any member in case of consortium) shall have experience in implementing at least two projects related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/ campus-wide applications/ sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste	The clause may be changed to: "Integrated Command and Control Centre (ICCC) The Bidder (any member in case of consortium) shall have experience in implementing at least two projects related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/	As per RFP

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				Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide /campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years.	campus-wide applications/ sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Data Centre/ Parking/ E-Governance/ Emergency Services/ SCADA)/ at the command and control centre for a city wide /campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years.	
57	1	5. Pre-Qualification Criteria, #8 Bidder Experience: Integrated Traffic Management System	34	The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: · Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System	Request following modifications on the PQ clause. Our position is GPS based vehicle tracking system/fleet management system is equally complex and sever the purpose of traffic management. Bidder Experience: Integrated Traffic Management System The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: • Traffic Violation Detection System • Adaptive Traffic Signal Control System • Variable Message Signboards • Public Address System • GPS based Vehicle tracking System/ fleet management system.	As per RFP
58	1	5. Pre-Qualification	34	The Bidder (any member in case of consortium) shall have experience in	Requesting authority to kindly amend the clause, considering relevant system like	As per RFP

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		Criteria, #8 Bidder Experience: Integrated Traffic Management System		implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: ♦ Traffic Violation Detection System ♦ Adaptive Traffic Signal Control System ♦ Variable Message Signboards ♦ Public Address System	traffic surveillance systems and modify the clause as: The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last seven years: ♦ Traffic Surveillance System. ♦ Traffic Violation Detection System ♦ Adaptive Traffic Signal Control System ♦ Variable Message Signboards ♦ Public Address System	
59	1	5. Pre-Qualification Criteria, #8 Bidder Experience: Integrated Traffic Management System	34	The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: ♦ Traffic Violation Detection System ♦ Adaptive Traffic Signal Control System ♦ Variable Message Signboards ♦ Public Address System	Variable Message Signboards and Public Address System are not standalone Traffic Management Solutions. Adaptive Traffic Signal Control System and Traffic Violation Detection System can be considered as standalone. Request you to remove VMS & PA System in this clause	As per RFP
60	1	5. Pre-Qualification Criteria, #8 Bidder Experience: Integrated Traffic Management System	38	The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: • Traffic Violation Detection System	Request to accept the ongoing initial stage projects instead of completed project for Adaptive Traffic Signal Control System. The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a	As per RFP

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				• Adaptive Traffic Signal Control System • Variable Message Signboards • Public Address System	minimum value of INR 1 crore for Variable Message Display project.	
61	1	5. Pre-Qualification Criteria, #8 Bidder Experience: Integrated Traffic Management System	38	Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead	Request to accept the work order only & remove the clause of "Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead"	As per RFP
62	1	5. Pre-Qualification Criteria, #10 Bidder Experience: Safety and Surveillance	34	The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project with more than 100 outdoor CCTV IP cameras with video analytics system on a city wide basis during last five years	The clause may be changed to: "Bidder Experience: Safety and Surveillance The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project during last five years "	As per RFP
63	1	5. Pre-Qualification Criteria, #10 Bidder Experience: Safety and Surveillance	34	The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project with more than 100 outdoor CCTV IP cameras with video analytics system on a city wide basis during last five years.	Request following modifications on the PQ clause: Bidder Experience: Safety and Surveillance The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project with more than 100 outdoor CCTV IP cameras with video analytics system on a city/campus wide basis during last five years	As per RFP
64	1	5. Pre-Qualification Criteria, #10 Bidder Experience:	34	The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project with more than 100 outdoor CCTV IP	The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project with more than 100 outdoor CCTV IP cameras with Video Management System /	As per RFP

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		Safety and Surveillance		cameras with video analytics system on a city wide basis during last five years	Video analytics system Software on a City/Campus/Township wide basis during last Seven (7) years. Justification: As there are less projects of similar nature are implemented by government during last five years and this smart city program is developed 4 years back only no of projects implemented by any prospective bidders are less so we request you to please consider last 7 years from bid submission date.	
65	1	5. Pre-Qualification Criteria, #11 Bidder Experience: Other Smart Solutions Experience	35	Other Smart Solution Experience The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Environment Sensors and / or Smart Classrooms during last five years with a minimum value of INR 0.5 Crore during last five years.	Request following modifications on the PQ clause, as VC is very relevant to smart classes project. Other Smart Solution Experience The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Environment Sensors / Smart Classrooms / Video Conferencing during last five years with a minimum value of INR 0.5 Crore during last five years.	As per RFP
66	1	5. Pre-Qualification Criteria, #11 Bidder Experience: Other Smart Solutions Experience	35	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Environment Sensors and / or Smart Classrooms during last five years with a minimum value of INR 0.5 Crore during last five years	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Environment Sensors and / or Smart Classrooms during last Seven years with a minimum value of INR 0.5 Crore during last Seven years Justification: As there are less projects of similar nature are implemented by government during last five years and this smart city program is developed 4 years back only no of projects implemented by	As per RFP

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					any prospective bidders are less so we request you to please consider last 7 years from bid submission date.	
67	1	5. Pre-Qualification Criteria, #12 Overall	35	**Overall:** Sole Bidder shall have at least one project experience in each of 5 project categories for pre-qualification stage in last five years. In case of a consortium, all members together shall meet the Pre-Qualification experience criteria (7 - 11)	The clause may be changed to: "Overall: Sole Bidder shall have at least one project experience in any 3 of the 5 project categories for pre-qualification stage in last five years. In case of a consortium, all members together shall meet any 3 of the Pre-Qualification experience criteria (7 - 11)"	As per RFP
68	1	5. Pre-Qualification Criteria, #12 Overall	35	Overall: Sole Bidder shall have at least one project experience in each of 5 project categories for pre-qualification stage in last five years. In case of a consortium, all members together shall meet the Pre-Qualification experience criteria (7 - 11)	While going through the # RFP. No. RSCL/110/2018/411, it is observed that the work in question is completely new in its nature and there would be very few MSI who can fulfil the Eligibility and Pre-Qualification Criteria of 'Similar Project Experience' given in RFP as a lead bidder. Moreover, RSCL has permitted 'Collective Experience' (Lead Bidder + any of Consortium partner) in terms of project experience. It is confusing that RSCL has permitted collective experience for the criteria 7 to 11 including 13, such criteria (Overall - Sole Bidder project experience) will limit the MSI's participation. Our suggestion is RSCL should increase lead bidder turnover criteria 400 Cr from 240 Cr as financial strength and seamless cash flow is key to execute and maintain the project. This is a normal practice in ICT RFPs like Dholera, Jaipur, Vadodara, Mumbai ITMS etc. Hence we request RSCL to remove the clause No. 12 from the RFP. This will increase the lead bidder's	As per RFP

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					participation count and will help RSCL for sure.	
69	1	5. Pre-Qualification Criteria, #13 Additional Certification	35	The sole bidder or any member in case of a consortium should have CMMi level 3 or above certification	Request to delete this clause.	Please refer to Corrigendum
70	1	5. Pre-Qualification Criteria, #13 Additional Certification	35	The sole bidder or any member in case of a consortium should have CMMi level 3 or above certification	CMMi level 3 certification was required as last time e-Governance software was part of RFP. Now that the e-Govt Software is no longer a part of SoW request you to kindly remove the requirements of CMMi level 3 certification,	Please refer to Corrigendum
71	1	5. Pre-Qualification Criteria, #13 Additional Certification	35	The sole bidder or any member in case of a consortium should have CMMi level 3 or above certification	Since already bidder's ISO certifications are evaluated in the Pre-qualification criteria, we request authority to kindly remove this requirement. Please remove this criteria for a wide participation.	Please refer to Corrigendum
72	1	5. Pre-Qualification Criteria	35	Notes: · A parent company/firm shall be allowed to use the credentials of its subsidiaries/associates provided, the stake of the parent company is more than 50% and satisfactory documentary proofs establishing the relationship and stake are submitted. · A wholly owned subsidiary may use the technical credentials of its parent company if an undertaking confirming the relationship is provided by the parent company/firm	Request to modify as follows: · A wholly owned subsidiary may use the technical credentials of its parent company/ sister concern if an undertaking confirming the relationship is provided by the parent company/firm/sister concern.	As per RFP
73	1	5. Pre-Qualification Criteria	35	**Notes:** • A wholly owned subsidiary may use the technical credentials of its parent company if an undertaking confirming the relationship is provided by the parent company/firm	We request RSCL to allow wholly owned subsidiary companies to use technical as well as Commercial credentials of its parent company as the parent companies are allowed to use both technical and Commercial credentials of its	As per RFP

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					subsidiaries/associates and modify the clause under: Notes: • A wholly owned subsidiary may use the technical and Commercial credentials of its parent company if an undertaking confirming the relationship is provided by the parent company/firm	
74	1	5. Pre-Qualification Criteria	35	A parent company/firm shall be allowed to use the credentials of its subsidiaries/associates provided, the stake of the parent company is more than 50% and satisfactory documentary proofs establishing the relationship and stake are submitted.	To establish the relationship between the child and parent; is AOA and MOA enough? Can we also provide certificate from the auditor?	As per RFP
75	1	5. Pre-Qualification Criteria	35	A wholly owned subsidiary may use the technical credentials of its parent company if an undertaking confirming the relationship is provided by the parent company/firm	What happens if the child has all the technical credentials being asked for and wants to use the financial criteria of its parent (f the parent is in same line of business)?\n\nWe request that parent's financial credentials are also allowed to meet the PQ requirement. If consortium member's financial credentials are allowed then using Parent's Financial credentials shall be more relevant and would represent even better financial commitment?	As per RFP
76	1	5. Pre-Qualification Criteria	35	♦ A parent company/firm shall be allowed to use the credentials of its subsidiaries/associates provided, the stake of the parent company is more than 50% and satisfactory documentary proofs establishing the relationship and stake are submitted.	In recent similar tenders, bidders who are 99.99%/wholly owned subsidiaries of their Foreign/Indian parent company were allowed to use their parent company financial and technical credentials for both qualification and scoring purpose, in where the Indian subsidiary is registered and operational in India for at least last 15 years	As per RFP

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				♦ A wholly owned subsidiary may use the technical credentials of its parent company if an undertaking confirming the relationship is provided by the parent company/firm	and both parent company and Indian subsidiary operate under same domain with same name and logo. Also attached screenshots of tenders showing acceptance of parent company financial credentials in Prequalification and technical evaluation criteria. So in 74order to increase the participation of more competitive bidders, we request the authority to allow the above said bidders to use their parent company financial credentials to qualify and score for financial criteria under Prequalification and technical scoring criteria.	
77	1	6.1 Technical Bid Evaluation Criteria.| A1	36	People in organization (Number of persons employed in ICT projects) >450 = 2 marks >300 and <=450 = 1.4 marks >200 and <=300 = 0.6 marks	Requesting authority to relax the marking as below: >300 = 2 marks >200 and <=300 = 1.4 marks >100 and <=200 = 0.6 marks	As per RFP
78	1	6.1. Technical Bid Evaluation Criteria	A2	36	Net worth as on 2017-18 financial year end	Requesting to allow bidder to use the audited financials of preceding last three years i.e. (2014-15, 2015-16 & 2016-17), if their financial year (FY 2017-18) auditing is under process and in that case, submit a declaration for non-submission of financials for the said year. Since for most of the international companies, their financial year is from January to December of a year, we request the authority to allow foreign bidders to use their audited financial statements in years 2015, 2016, 2017. Please confirm.	As per RFP

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79	1	6.1. Technical Bid Evaluation Criteria A3	37	Average Annual Turnover of last 3 audited financial years (2015-16, 2016-17, 2017-18).	Requesting to allow bidder to use the audited financials of preceding last three years i.e. (2014-15, 2015-16 & 2016-17), if their financial year (FY 2017-18) auditing is under process and in that case, submit a declaration for non-submission of financials for the said year. Since for most of the international companies, their financial year is from January to December of a year, we request the authority to allow foreign bidders to use their audited financial statements in years 2015, 2016, 2017. Please confirm.	As per RFP
80	1	6.1. Technical Bid Evaluation Criteria A3	37	Average Annual Turnover of last 3 audited financial years (2015-16, 2016-17, 2017-18). >=700 Cr = 4 >=500 Cr and <700 Cr = 2.8 >=400 Cr and <500 Cr = 1.2	Kindly relax the turnover requirement as below for a wide participation: Average Annual Turnover of last 3 audited financial years (2015-16, 2016-17, and 2017-18). >=400 Cr = 4 >=300 Cr and <400 Cr = 2.8 >=200 Cr and <300 Cr = 1.2	As per RFP
81	1	6.1 Technical Bid Evaluation Criteria.| Sole Bidder /Consortium Project Experience	37	-	We request RSCL to consider Bidders Project experience of Ten Years, instead of Five years and modify the clause 5. Pre-Qualification Criteria and Clause 6.1. Technical Bid Evaluation Criteria.	As per RFP
82	1	6.1 Technical Bid Evaluation Criteria.| Sole Bidder /Consortium Project Experience	37-39	………………………….during last five (5) years	Request you to please modify this clause as " ………………………..during last seven (7) years from 31.03.2019"	As per RFP

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83	1	6.1 Technical Bid Evaluation Criteria.| Sole Bidder /Consortium Project Experience	B1 Integrated Command and Control Centre (ICCC)	37	The Bidder (any member in case of consortium) shall have experience in implementing at least two projects related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/ campus-wide applications/ sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide /campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years. Points are allocated based on number of projects Number of Projects Marks >=4 20 =3 14 =2 6	Request you to kindly relax the marking criteria as: The Bidder (any member in case of consortium) shall have experience in implementing at least two one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/ campus-wide applications/ sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide /campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years. Points are allocated based on number of projects Number of Projects Marks >=3 20 =2 14 =1 6	As per RFP
84	1	6.1 Technical Bid Evaluation Criteria.| Sole Bidder /Consortium Project Experience	B1 Integrated Command and	37	The Bidder (any member in case of consortium) shall have experience in implementing at least two projects related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/ campus-wide applications/ sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/	The clause may be changed to: "Integrated Command and Control Centre (ICCC) The Bidder (any member in case of consortium) shall have experience in implementing at least two projects related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/ campus-wide applications/ sensors	As per RFP

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		Control Centre (ICCC)		Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide /campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years. Points are allocated based on number of projects Number of Projects >= 4 - 20 Marks Number of Projects = 3 - 14 Marks Number of Projects = 2 - 6 Marks	(covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Data Centre/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide /campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years. Points are allocated based on number of projects Number of Projects >= 3 - 20 Marks Number of Projects = 2 - 14 Marks Number of Projects = 1 - 6 Marks"	
85	1	6.1	B1: Integrated Command and Control Centre (ICCC)	37	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years. Points are allocated based on number of projects.	Request following modifications on the EQ clause. Our position is GPS and RFID are also sensors. Bidder Experience: ICCC The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA / GPS / RFID) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR	As per RFP

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					5 crore per project (excluding civil works) during last five (5) years. Points are allocated based on number of projects.	
86	1	6.1. Technical Bid Evaluation Criteria B1- Integrated Command and Control Centre (ICCC)	37	The Bidder (any member in case of consortium) shall have experience in implementing at least two projects related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/ campus-wide applications/ sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide /campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last five (5) years. Points are allocated based on number of projects	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least two (2) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/ Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors/ Transport Monitoring/ Parking/ E-Governance/ Emergency Services/ SCADA) at the command and control centre for a city wide/ campus wide deployment having a minimum value of INR 5 crore per project (excluding civil works) during last Seven (7) years. Maximum No. of project 3 for maximum marks 20 Justification: As there are less projects of similar nature are implemented by government during last five years and this smart city program is developed 4 years back only no of projects implemented by any prospective bidders are less so we request you to please consider last 7 years from bid submission date.	As per RFP
87	1	6.1. Technical Bid Evaluation Criteria B2- Integrated	38	The Bidder (any member in case of consortium) shall have experience in implementing at least two projects with regard to implementation of integrated	The clause may be changed to: "Integrated Traffic Management System (ITMS) The Bidder (any member in case of	As per RFP

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		Traffic Management System (ITMS)		Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: · Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System Points are allocated based on number of projects Number of Projects >=4 - 14 Marks Number of Projects = 3 - 9.8 Marks Number of Projects = 2 - 4.2 Marks	consortium) shall have experience in implementing at least two projects with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: · Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System Points are allocated based on number of projects Number of Projects >=3 - 14 Marks Number of Projects = 2 - 9.8 Marks Number of Projects = 1 - 4.2 Marks"	
88	1	6.1. Technical Bid Evaluation Criteria B2- Integrated Traffic Management System (ITMS)	38	The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: · Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System Points are allocated based on number of projects	Request following modifications on the EQ clause. Our position is GPS based vehicle tracking system/fleet management system is equally complex and sever the purpose of traffic management. Bidder Experience: Integrated Traffic Management System The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: • Traffic Violation Detection System • Adaptive Traffic Signal Control System • Variable Message Signboards	As per RFP

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					• Public Address System • GPS based Vehicle tracking System/ fleet management system. Points are allocated based on number of projects	
89	1	6.1. Technical Bid Evaluation Criteria B2- Integrated Traffic Management System (ITMS)	38	The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: · Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System Points are allocated based on number of projects	The Bidder (any member in case of consortium) shall have experience in implementing at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last Seven (7) years: · Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System Maximum No. of project 3 for maximum marks 14 Justification: As there are less projects of similar nature are implemented by government during last five years and this smart city program is developed 4 years back only no of projects implemented by any prospective bidders are less so we request you to please consider last 7 years from bid submission date.	As per RFP
90	1	6.1. Technical Bid Evaluation Criteria B2- Integrated Traffic Management System (ITMS)	38	The Bidder (any member in case of consortium) shall have experience in implementing at least two projects with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years:	Please include traffic surveillance into the key components and revise the clause as: The Bidder (any member in case of consortium) shall have experience in implementing at least two projects with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project	As per RFP

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				· Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System Points are allocated based on number of projects	comprising any of the following key components during last Seven years: · Traffic Surveillance System · Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System	
91	1	6.1. Technical Bid Evaluation Criteria B2- Integrated Traffic Management System (ITMS)	38	The Bidder (any member in case of consortium) shall have experience in implementing at least two projects with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crore per project comprising any of the following key components during last five years: · Traffic Violation Detection System · Adaptive Traffic Signal Control System · Variable Message Signboards · Public Address System Points are allocated based on number of projects Number of Projects Marks >=4 14 =3 9.8 =2 4.2	Variable Message Signboards and Public Address System are not standalone Traffic Management Solutions. Adaptive Traffic Signal Control System and Traffic Violation Detection System can be considered as standalone. Request you to remove VMS & PA System in this clause	As per RFP
92	1	6.1. Technical Bid Evaluation Criteria B3- Safety and Surveillance	38	The Bidder (any member in case of consortium) shall have experience in implementing at least two city wide video surveillance project with more than 100 outdoor CCTV IP cameras with video analytics system during last five years. Points are allocated based on number of projects Number of Projects >= 4 - 12 Marks Number of Projects = 3 - 8.4 Marks Number of Projects = 2 - 3.6 Marks	The clause may be changed to: "Safety and Surveillance The Bidder (any member in case of consortium) shall have experience in implementing at least two city wide video surveillance during last five years. Points are allocated based on number of projects Number of Projects >= 3 - 12 Marks Number of Projects = 2 - 8.4 Marks Number of Projects = 1 - 3.6 Marks"	As per RFP

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93	1	6.1. Technical Bid Evaluation Criteria B3- Safety and Surveillance	38	The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project with more than 100 outdoor CCTV IP cameras with video analytics system on a city wide basis during last five years. Points are allocated based on number of projects.	Request following modifications on the EQ clause: Bidder Experience: Safety and Surveillance The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project with more than 100 outdoor CCTV IP cameras with video analytics system on a city/campus wide basis during last five years Points are allocated based on number of projects.	As per RFP
94	1	6.1. Technical Bid Evaluation Criteria B3- Safety and Surveillance	38	The Bidder (any member in case of consortium) shall have experience in implementing at least two city wide video surveillance project with more than 100 outdoor CCTV IP cameras with video analytics system during last five years. Points are allocated based on number of projects	The Bidder (any member in case of consortium) shall have experience in implementing video surveillance project with more than 100 outdoor CCTV IP cameras with Video Management System / Video analytics system Software on a City/Campus/Township wide basis during last Seven (7) years. Maximum No. of project 3 for maximum marks 12 Justification: As there are less projects of similar nature are implemented by government during last five years and this smart city program is developed 4 years back only no of projects implemented by any prospective bidders are less so we request you to please consider last 7 years from bid submission date.	As per RFP
95	1	6.1. Technical Bid Evaluation	38	The Bidder (any member in case of consortium) shall have experience in implementing at least two city wide video	Kindly revise the criteria as below for a competitive bidding:	As per RFP

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		Criteria B3		surveillance project with more than 100 outdoor CCTV IP cameras with video analytics system during last five years. Points are allocated based on number of projects >=4 = 12 =3 = 8.4 =2 = 3.6	The Bidder (any member in case of consortium) shall have experience in implementing city wide video surveillance project with more than 300 outdoor CCTV IP cameras with video analytics system during last seven years. Points are allocated based on number of projects: >600 cameras = 12 marks >300 and <= 600 cameras = 8.4 marks < 300 cameras = 3.6 marks	

96	1	6.1. Technical Bid Evaluation Criteria B4- Wi-Fi	38	The Bidder (any member in case of consortium) shall have experience in implementing at least two (2) City wide / campus(s) wide Wi-Fi projects consisting of over 50 Access Points per project during last five years.
				Points are allocated based on number of projects
				
				Number of Projects Marks
				 >=4 5
				  =3 3.5
				  =2 1.5
					The Bidder (any member in case of consortium) shall have experience of implementation and operations of at least two (2) City wide / campus wide Wi-Fi Projects consisting of over 150 Access Points per project during last five years. Points are allocated based on number of projects executed
					
					Maximum Marks - 7
					
					Number of Projects Marks
					 >=4 7
					  =3 5
					  =2 2
						As per RFP

97	1	6.1. Technical Bid Evaluation Criteria B4- Wi-Fi	38	The Bidder (any member in case of consortium) shall have experience in implementing at least two (2) City wide / campus(s) wide Wi-Fi projects consisting of over 50 Access Points per project during last five years. Points are allocated based on number of	The clause may be changed to: "Wi-Fi or OFC" The Bidder (any member in case of consortium) shall have experience in implementing at least two (2) City wide /OFC/ Network Backbone/ campus(s) wide Wi-Fi projects consisting of over 50 Access	As per RFP

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				projects Number of Projects >= 4 - 5 Marks Number of Projects = 3 - 3.5 Marks Number of Projects = 2 - 1.5 Marks	Points per project during last five years. Points are allocated based on number of projects Number of Projects >= 3 - 5 Marks Number of Projects = 2 - 3.5 Marks Number of Projects = 1 - 1.5 Marks"	
98	1	6.1. Technical Bid Evaluation Criteria | B5: Other Smart Solution Experience	39	Other Smart Solution Experience The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Environment Sensors and / or Smart Classrooms during last five years with a minimum value of INR 0.5 Crore during last five years. Points are allocated based on number of projects.	Request following modifications on the EQ clause, as VC is very relevant to smart classes project. Other Smart Solution Experience The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Environment Sensors / Smart Classrooms / Video Conferencing during last five years with a minimum value of INR 0.5 Crore during last five years. Points are allocated based on number of projects.	As per RFP
99	1	6.1. Technical Bid Evaluation Criteria | B5: Other Smart Solution Experience	39	The Bidder (any member in case of consortium) shall have experience in implementing at least two project related to implementation of Environment Sensors and / or Smart Classrooms during last five years with a minimum value of INR 0.5 Crore during last five years.	GIS and its Integration and its use cases is an important part in Scope of this RFP. Request you to kindly consider inclusion of GIS implementation or Integration project experience as well. Suggestive clause: Other Smart Solution Experience The Bidder (any member in case of consortium) shall have experience in implementing at least two project related to implementation of Environment Sensors and / or Smart Classrooms/Implementation or Integration of GIS application during last	As per RFP

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					five years with a minimum value of INR 0.5 Crore during last five years.	
100	1	6.1. Technical Bid Evaluation Criteria	B5: Other Smart Solution Experience	39	The Bidder (any member in case of consortium) shall have experience in implementing at least two project related to implementation of Environment Sensors and / or Smart Classrooms during last five years with a minimum value of INR 0.5 Crore during last five years. Points are allocated based on number of projects	The Bidder (any member in case of consortium) shall have experience in implementing at least one project related to implementation of Environment Sensors and / or Smart Classrooms during last Seven years with a minimum value of INR 0.5 Crore during last Seven years. Maximum No. of project 2 for maximum marks 4 Justification: As there are less projects of similar nature are implemented by government during last five years and this smart city program is developed 4 years back only no of projects implemented by any prospective bidders are less so we request you to please consider last 7 years from bid submission date.	As per RFP
101	1	6.1. Technical Bid Evaluation Criteria Notes	40	For all documents/certificates executed and issued overseas, the document/certificate will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the document/certificate provided by Bidder from countries that have signed The Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostille certificate. It shall be the responsibility of the bidder to provide all necessary proof/ documentation/ certification and clearances with regard to global / overseas project experience.	Kindly remove this requirement, since getting a document legalised from the embassy is a highly time consuming process. Please allow bidders to submit documents signed by the authorized signatory and notarized.	As per RFP
102	1	6.1.1. Key Personnel	41	Project Manager a) Education: MBA/MCA/M. Tech & B.	Project Manager a) Education: MBA/MCA/M. Tech & B.	As per RFP

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				Tech/B.E. or equivalent from a recognized educational institution along with PMP or Prince2 certification b) Experience: Minimum 10 years in IT sector. Should have more than 5 years of experience of leading such large ICT projects involving implementation of Surveillance/ITMS/ E-Governance/ IT infrastructure with Command & Control Center.	Tech/B.E. or equivalent from a recognized educational institution along with PMP or Prince2 certification b) Experience: Minimum 10 years in IT sector. Should have more than 5 years of experience of leading such large ICT projects involving implementation of Surveillance/ITMS/ E-Governance/ IT infrastructure with Command & Control Center/viewing centre.	
103	1	6.1.1. Key Personnel	41	**(Second Paragraph)** Further, all the key personnel whose CVs will be evaluated shall be full-time employees of the sole bidder or any member in case of a Consortium.	Request you to amend the clause as below, Further, all the key personnel who's CVs will be evaluated shall be full-time employees of the sole bidder or any member in case of a Consortium or any of its OEM or nominated sub-contractors.	As per RFP
104	1	6.1.1. Key Personnel	41	4. Security Architect a) Education: Bachelor in IT or Engineering with industry standard certifications including CISSP.	Request you to kindly amend the clause as below: a) Education: Bachelor in IT or Engineering with industry standard certifications including CISSP OR equivalent.	As per RFP
105	1	6.1.1. Key Personnel	42	ITMS Expert a) Education: Bachelor of Engineering degree or MCA or equivalent from a recognized educational institution b) Experience: Minimum 10 years in IT sector. Should have experience in designing, implementing and integrating various ITMS sub-systems like Traffic Signalling and RLVD/ANPR for at least 2 projects	Request you alter the clause as below: ITMS Expert a) Education: Bachelor of Engineering degree or MCA or equivalent from a recognized educational institution b) Experience: Minimum 10 years in IT sector. Should have experience in designing, implementing and integrating various ITMS sub-systems like Traffic Signalling or RLVD/ANPR for at least 2 projects	As per RFP
106	1	6.1.1. Key Personnel	42	**Note:** Each CV needs to have been recently signed by the key personnel and	Since the bid document is already being signed by the authorized signatory of the firm, request you to delete the provision of	As per RFP

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				countersigned by the authorized official of the Firm.	the CV being signed by the key personnel, since the personnel might be stationed at different locations and hence it would be difficult to get signatures from them.	
107	1	8.2. Pre-Qualification Bid Covering Letter	45	We understand that the Client may cancel the bidding process at any time and that Client is not bound to accept any bid that it may receive without incurring any liability towards the bidder.	Kindly request you to amend the clause as below: We understand that the Client may cancel the bidding process at any time and that Client with prior notification to bidder is not bound to accept any bid that it may receive without incurring any liability towards the bidder	As per RFP
108	1	8.9 Declaration of Non-Blacklisting	56	General Query	The requirement for providing the Non-Blacklisting certificate on a stamp paper would be difficult to provide as most of the OEM sends out legal documents from abroad offices and it is not possible to get the same on the stamp paper. In case of CISCO, all the legal documents are provided from the Amsterdam office.	Please refer to Corrigendum.
109	1	8.9. Bidder Standing Declaration of Non-Blacklisting	56	Declaration of Non-Blacklisting <<To be provided by the bidder (In case of Consortium to be provided by each member), sub-contractor and OEM as per categories list given in Technical Bid Format, Section 2.12.2 – Sl # 11>> [On a Stamp Paper of Rs. 100/- value and duly notarized]	Since the sub-contractor and OEM's will be based out of different regions, it would be difficult to get stamp papers from each of the vendors. As in other smart city bids kindly consider the non-blacklisting declaration on their respective letter heads signed by their authorized signatory. Hence request you to amend the clause as below: <<To be provided by the bidder (In case of Consortium to be provided by each member)>>	Please refer to Corrigendum.
110	1	8.14	61	No Deviation Certificate format	We assume the no deviation is for technical and commercial clauses. Please allow legal deviations at least on MSA /General	As per RFP

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					Condition of Contract which may be negotiated between RSCL and the successful Bidder at the time of MSA/Contract signing. It may not be possible for RSCL or the MSI to accept all MSA/Contract clauses currently and could be negotiated only at the time of Contract signing. Bid submission of list of deviations are now being allowed in many RFPs and same can be shared upon request.	
111	1	9.14	80	If selected as the successful Bidder, we undertake that the Key Experts mentioned above would be available and will provide their best services for the duration of the Contract, in accordance with the terms of the RFP and the Contract.	We request you to amend the clause as below, If selected as the successful Bidder, we undertake to deploy the Key Experts meeting the RFP requirements mentioned above and will provide their best services for the duration of the Contract, in accordance with the terms of the RFP and the Contract. However the submitted resources shall be considered only for the purpose of evaluation and need not be mandatorily deputed.	As per RFP
112	1	9.14 Undertaking regarding availability of key expert	80	Further we, M/s …………. [Insert name of the Bidder] confirm that the Key Experts named below: 1. …… 2. ……. 3. ….. 4. …….	Kindly amend the clause as below: Further we, M/s …………. [Insert name of the Bidder/Consortium member/OEM] confirm that the Key Experts named below: 1. …… 2. ……. 3. ….. 4. …….	Please refer to Corrigendum.
113	1	9.15 Proposed Bill of Material | Data Centre	81	9) Blade Chassis - 4 Nos.	Please amend to Blade Chassis - 4 Nos. minimum	Please refer to Corrigendum.

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					Dell Blade Chassis supports maximum 8 Blade Server. As such it will need 5 Nos. Blade Chassis	
114	1	9.15 Proposed Bill of Material | Data Centre	81	" Server" Qty mentioned 40	How many servers considered for Virtualization Hosts out of 40 Qty?	MSI may decide as per their design to meet the functional requirement of the RFP
115	1	9.15 Proposed Bill of Material | Data Centre	81	" Server" Qty mentioned 40	How many servers considered as a Bare metal servers out of 40 Qty?	MSI may decide as per their design to meet the functional requirement of the RFP
116	1	9.15 Proposed Bill of Material | Data Centre	81	Blade Chassis : Qty 4	Blade Chassis: As required Two out of three Gartner leaders in Blade servers offers 8 Blade server with their each chassis. Hence to offer 40 Blade servers minimum 5 Blade chassis is required. Kindly update.	Please refer to Corrigendum.
117	1	9.15 Proposed Bill of Material | Data Centre	81	Server load balancer quantity 2	As there is another line item for ADC, can specification and quantity be removed for server load balancer, kindly clarify	As per RFP
118	1	9.15 Proposed Bill of Material | Data Centre	81	KVM Switch with Monitor - 2 Web and Content Filtering software – 1	Request authorities to clarify if the bidder has to consider these DC components as these are mentioned in the RFP BOQ but no specifications are mentioned in the RFP.	MSI to decide as per their design to meet the functional requirement of the RFP
119	1	9.15 Proposed Bill of Material | Integrated	81	7. LED TV 55"	Line item 'LED TV 55"' mentioned in BoQ does not have technical specifications in the RFP. Kindly clarify	MSI to decide to deliver the outcome

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		Command and Control Center				
120	1	9.15 Proposed Bill of Material | Integrated Command and Control Center	81	12. Multifunction Printer	Line item 'Multifunction Printer' mentioned in BoQ does not have technical specifications in the RFP. Kindly clarify	MSI to decide to deliver the outcome
121	1	9.15 Proposed Bill of Material | Data Centre	82	IP: Network Video Recorder - 2 Nos	Volume 2: Pg 251 (Safety & Surveillance) Volume 1: IP: Network Video Recorder - 2 Nos (Data Center) Network Video Recorder (NVR) Kindly clarify where NVR is required. For general city Surveillance, COTS server with open platform VMS will be used.	ICCC and in DC
122	1	9.15 Proposed Bill of Material | Data Centre	82	IP: Network Video Recorder - 2 Nos	Kindly Clarify where to be used NVR and how many channels required? Also clarify why this NVR is required since Video Management system is available.	ICCC and in DC
123	1	9.15 Proposed Bill of Material | Data Centre	82	Physical security information management (PSIM) Application	Kindly elaborate or provide the technical specifications/requirement for PSIM	As per RFP
124	1	9.15 Proposed Bill of Material | Data Centre	82	GIS Application Server License Lot 1	The license UOM is mentioned as "Lot". The bidders are expected to quote the required quantity according to sizing against this line item. Please confirm.	Yes - Understanding is correct.
125	1	9.15 Proposed Bill of Material | Data Centre	82	GIS Application desktop License Lot 1	The license UOM is mentioned as "Lot". The bidders are expected to quote the required quantity according to sizing against this line item. Please confirm.	Yes - Understanding is correct.
126	1	9.15 Proposed Bill of Material | ATCS	83	Solar Power System for Blinkers :15	Total number of blinker signal is 104 & solar power system for blinker is 15. Is solar powered system is only for 15 blinkers? & rest of the 89 blinker should work AC supply? Please clarify this point.	As per RFP. Total number of blinkers to be installed are 119 (104 blinkers at 29

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						identified junctions and 15 independent blinkers at other intermediate junctions). Solar power system shall be used at all these junctions and the quantity for the same has been indicated under line item # 11 and 12 under ATCS
127	1	9.15 Proposed Bill of Material | ATCS	83	300 mm LED Aspect RED/AMBER for Blinker Signals :104	Total number of blinker signal is 104 & solar power system for blinker is 15. Is solar powered system is only for 15 blinkers? & rest of the 89 blinker should work AC supply? Please clarify this point.	As per RFP. Total number of blinkers to be installed are 119 (104 blinkers at 29 identified junctions and 15 independent blinkers at other intermediate junctions). Solar power system shall be used at all these junctions

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						and the quantity for the same has been indicated under line item # 11 and 12 under ATCS
128	1	9.15 Proposed Bill of Material | Safety and Surveillance	83	IR Illuminator - 369 Nos.	We understand that IR illuminator is asked for both Fixed and PTZ camera. Usually PTZ camera will come with Inbuilt IR illuminator. Hence kindly revise the quantity to 304 Nos of IR illuminators.	Please refer to Corrigendum.
129	1	9.15 Proposed Bill of Material | Safety and Surveillance	83	4) Mounting Rack (Industrial type) - as per requirement 10) Junction Box- as per requirement	BoQ line items 4 & 10 under safety and surveillance serves the same purpose and hence it is redundant. Kindly delete line item 4 from the BoQ	Please refer to Corrigendum.
130	1	9.15 Proposed Bill of Material | ATCS	84	Adaptive LED Light Strips: 105	Please provide technical specifications for Adaptive Led light strips.	MSI to decide considering the project outcome and the required Operation & Maintenance requirements
131	1	9.15 Proposed Bill of Material | Network Connectivity on Lease	84		Proposed Bill of Material |Network Connectivity on Lease No BOQ line item for Internet for Wi-Fi and other applications , kindly add internet quantity	500 MB per user
132	1	9.15 Proposed Bill of Material | Environmental System	84	Ruggedized/Industrial Network Switch - 5 Nos.	As per the technical requirements, connectivity can be provided through GPRS (2G) / GSM (3G) / LTE (4G) / Wi-Fi / LORA. Hence kindly change the network switch quantity to "As per requirement".	As per RFP

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133	1	9.15 Proposed Bill of Material | TVDS	84	Speed Violation Detection Sensors/ Radars/ Instruments - As per requirements	1) Sensors can be understood as an alias term for cameras. Please clarify if the understanding is correct. 2) Kindly share breakup for SVD for each sub line item	As per RFP It is proposed that the Speed Violation System shall be deployed at 16 locations covering 64 lanes.
134	1	9.15 Proposed Bill of Material | TVDS	84	Speed Violation Detection Sensors/ Radars/ Instruments	Sensors can be understood as an alias term for cameras. Please clarify if the understanding is correct.	As per RFP
135	1	9.16	86	Manufacturers'/Producers' Authorization Form	Our stand is MSI shall indemnify the client against all kinds of patent/copyright infringements for the products manufactured by the MSI similarly the OEM should indemnify the client against all kinds of patent/copyright infringements for the products manufactured by the OEM, we therefore request you to kindly add a relevant clause for infringement indemnity in this MAF: "We <<OEM> undertake to ensure that there would not be any patent or IPR infringement on the products/ deliverables/ services. If however, there is an infringement, we hereby confirm that we indemnify the designated Employer and its nominated agencies from and against all third party claims of infringements of copyright, trade secret, patent or other intellectual property rights by any of the	Please refer to the Corrigendum

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					Goods / Deliverables/ Services manufactured/provided/supplied by us. We hereby confirm that we will defend such claim(s) at our expenses and will pay any costs or damages that may be finally awarded against the Employer. We, however, will not indemnify the Employer if the claim of infringement is caused by (a) The Employer's misuse or modification of the Deliverables; (b) The Employer's failure to use corrections or enhancements made available by us or our Partner SI; (c) The Employer's use of the Deliverables in combination with any product or information not owned or developed or supplied by us. If any of the Deliverables is or likely to be held as infringing, we will at our expense and option either (i) procure the right for the Employer to continue using it, (ii) replace it with a non-infringing equivalent, (iii) modify it to make it non-infringing."	
136	1	9.16	86	Manufacturers'/Producers' Authorization Form	Owing to internal policies certain OEMS may not provide MAFs in the RFP format. We request acceptance of MAFs not strictly as per RFP format.	Please refer to the corrigendum
137	1	9.20 Non-Disclosure Agreement	91	2. Confidential Information does not include information which: a. the Bidder knew or had in its possession, prior to disclosure, without limitation on its confidentiality; b. information in the public domain as a matter of law; c. is obtained by the Bidder from a third party without any obligation of confidentiality; d. the Bidder is required to disclose by	We request you to add the clause : f. All confidential Information shall be duly marked as "Confidential" and it shall not include independently developed by the Contractor"	As per RFP

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				order of a competent court or regulatory Client; e. Is released from confidentiality with the written consent of the Client. The Bidder shall have the burden of proving hereinabove are applicable to the information in the possession of the Bidder.		
138	1	9.17	96	Proposed Bill of Material	We understand that MSI to consider BOQ as per design for items mentioned in RFP BOQ "As per requirement" for all line items. And rest all items will be quoted as per BOQ only and if any variation will be as per quoted unit price. Pl. confirm	As per RFP
139	1	Bill of Quantity B Data Centre (DC) B	98	IP EPABX,AAA,Web content Filtering software quantity are 1 in number	Please clarify high availability is not required for these software/hardware	As per RFP
140	1	10.5. Price Sheet	99	Quantity Proposed (exclusive of spares and consumables)	Please provide the quantity of spares that would be required as a part of this tender.	MSI to ascertain the same to meet the requirements of the RFP
141	1	10.5	102	IP: Network Video Recorder	To optimize the solution, all cameras of DC room can be recorded in same VMS system where city cameras are getting recorded. Thus NVR not required, request to remove line item.	MSI can design the solution based on scope delivery
142	1	10.5	103	Edge AI analytics software (Enterprise License)	In RFP part 2, Analytics needed are centralized thus word "Edge" to be replaced by "Central AI analytics software (Enterprise License)"	Please refer to the corrigendum
143	1	10.5 Price Sheet	103	General Query	39 - ICCC core application 40 - IOT Platform License 55 - Physical security information management (PSIM) Application (may use customized or cots application)	As per RFP

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					Serial no. 39, 40, 55 are the integral part of each other and mostly part of one application. There is no separate specification given for PSIM application. Hope that it is acceptable to quote single application in place of 3 different application. Kindly confirm	
144	1	Volume 1 10.5 (a) CAPEX B. Data Center (DC)	103	49 Edge AI analytics software (Enterprise License) - 4500 Channels	As per BOQ, The AI channels are asked for 4500 channels but the number of cameras including ITMS cameras are around 802. To execute AI based analytics generally it is recommended to have one analytics per camera since these are deep learning analytics. We recommend to consider AI analytics = total number of cameras.	As per RFP
145	1	E. Adaptive Traffic Signal Control System	107	Additional Proposed Clause:	ITMS Platform: 1	As per RFP
146	1	10.5. | Price Sheet | Traffic Violation Detection System	108	Overview Camera with IR Illuminator- 105 Nos.	Overview Cameras are bright enough to capture the violation at night time. Hence, IR Illuminator are not required for Overview Cameras and should be removed from this clause.	Please refer to the corrigendum
147	1	10.5. | Price Sheet | Traffic Violation Detection System	108	Speed Violation Detection Sensors/ Radars/ Instruments- As per requirement	We understand that Speed system is asked under RLVD system for 201 lanes.

Is this requirement (pt. 7) is other than 201 lanes? Please confirm.

If this is an additional requirement for other locations, please mention the number of locations and number of lanes. | It is proposed that the Speed Violation System shall be deployed at 16 locations covering 64 lanes. This is in addition to the RLVD system. |

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148	1	10.5. Price Sheet	125	N.B. For the bandwidth charges (including aggregate bandwidth at DC and Lease Circuit Bandwidth), Lower of the Quoted prices as above or prices as applicable at the time of invoicing shall be considered. Client is entitled to ask for the adequate documentary evidence from the Bidder to support the applicable prices.	The Bandwidth charges shall be payable through Tripartite Agreement to ISP as a general practice. Hence we request you that the prices quoted by the Bidders for Bandwidth should not be considered for evaluation OR Bidders need not quote for the Bandwidth and shall be responsible only for sizing requirements of Bandwidth.	As per RFP
149	1	-	-	General Query	We request RSCL to kindly add below mentioned Pre-qualification criteria for selection of TSP Partner by MSI for provisioning of lease circuits and internet bandwidth. Further to this some of the License mentioned in below criteria are also mandatory requirement as compliance by DoT / TRAI for provisioning of such services hence very necessary from compliance perspective also. PQ Criteria no. 1) TSP/ISP Partner Should be a Class A ISP License holder from DoT. PQ Criteria no.2) TSP/ISP Partner should be a NLD License holder from DoT. PQ Criteria no.3) TSP/ISP Partner should have directly executed at least one smart city project for provisioning of such service .(Ongoing project will be considered)	As per RFP
150	1	-	-	General Query	Marks on Number of following projects: B1: Integrated Command and Control Centre (ICCC) B2: Integrated Traffic Management System (ITMS)	As per RFP

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					B3: Safety and Surveillance B4: Wi-Fi We are assuming if a single contract includes implementations of above solution components in multiple cities those solutions would be counted as individual projects for each city.	
151	1	-	-	General Query	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. DIPP Policy No. P-45021/2/1017 B.E.-II dated 28th May 2018 b. DoT gazette notification dated 29th August 2018 This PMA policy is made mandate by MoUD via notification D.O. No. K-14012/101(17)/2017-SC-III-A dated 27th April 2017. Please do confirm the implementation of the policy. We request you to kindly implement the Go policies meeting the policy guidelines to ensure domestic manufacturers are encouraged to participate. This has been directed by Public Procurement Cell as a mandate compliance requirement for all tenders pertaining to Smart Cities. Kindly confirm.	As per RFP
152	1	-	-	General Query	Kindly consider inclusion of CMMi and ISO quality certification clause to ensure a preference to Quality adhered and Sincere participants.	As per RFP

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					Suggestive clause: Certification with the Sole Bidder or any member of consortium (valid as on date of issuance of the bid): *ISO 9001:2008 *ISO 20000:2011 for IT Service Management *ISO 27001:2013 for Information Security Management System *CMMi Level 3 *CMMi Level 5

Points are allocated as: * Any one ISO certificate - 2 Marks. * Any two ISO certification or CMMi Level 3 - 3 Marks * All ISO certification and CMMi Level 3 - 4 Marks * All ISO Certification & CMMi Level 5 - 5 Marks | |
| 153 | 1 | - | - | General Query | 8.2. Pre-Qualification Bid Covering Letter 9.2. Technical Bid Covering Letter 9.16. Undertaking regarding availability of key expert 9.18. Manufacturers'/Producers' Authorization Form 9.20. Undertaking from sub-contractor 10.1. Commercial Bid Covering Letter 12. Annexure 5 (b) – Bank Guarantee for Earnest Money Deposit

Request you to kindly provide the Complete address Details to submit the formats as per RFP. This also needs to be printed in to Earnest Money Deposit format. | The Address for Submission of Hard Copy of the Bid is mentioned in the Data Sheet of Volume 1 of the RFP |

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154	1	-	-	General Query	Other Smart Elements/Environmental System There is no Line Item for Digital Display Screen in the BOQ. Kindly clarify if the DDS and VMD are same?	Yes - Understanding is correct.
155	1	-	-	General Query	The ICCC platform should be Navigant certified to ensure the quality	As per RFP
156	1	-	-	General Query	Internet bandwidth is missing from BOQ, Price Bid Please provide bandwidth in Mbps for Internet	As per RFP
157	1	-	-	General Query	Pl. clarify no. of Lanes to be considered for TVDS to calculate no. of ANPR cameras Pl. provide qty for Lanes in each arm	As per RFP
158	1	-	-	Additional Proposed BOM	ITMS Platform: 1	As per RFP
159	1	-	-	General Query	Kindly clarify hierarchy of RFP document priority wise which Volume will supersede others?	As per RFP
160	2	Survey and Detailed Design of all Smart Solutions	4	While designing the solution, MSI is expected to consider the aspect of scalability without any additional cost to add additional smart elements which may include the following: · Additional sensors/ IoT devices for future/ new requirements (As and when there is increase in the total devices connected) (e.g. AVLS, Smart Parking, SCADA integration with Downstream applications related to Water management, Electricity, Sewage etc.) · Standards based integration for future/new requirements with applications like eGov applications and related apps, third party systems (Through Open API's for all additional Applications in future) · Helping RSCL in finding solution for new	The Overall Solution Design is based on compute, process, storage and additional user licenses to address the scalability factor. Hence the clause may be modified to: The proposed solution design by the MSI should support scalability which may include the following: · Additional sensors/ IoT devices for future/ new requirements (As and when there is increase in the total devices connected) (e.g. AVLS, Smart Parking, SCADA integration with Downstream applications related to Water management, Electricity, Sewage etc.) · Standards based integration for	As per RFP

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				challenges faced in day to day scenario by customizing the existing smart solutions.	future/new requirements with applications like eGov applications and related apps, third party systems (Through Open API's for all additional Applications in future) · Helping RSCL in finding solution for new challenges faced in day to day scenario by customizing the existing smart solutions.	
161	2	Survey and Detailed Design of all Smart Solutions	4	MSI shall also be responsible for obtaining necessary concurrence on the detailed project design. MSI shall discuss in detail and validate with the Client or its representatives the detailed design of the smart city ICT components and fine tune any requirements All technical data sheets of the products should be submitted ahead of time by the MSI.	If there is any delay in getting the approval due to reasons attributable by the client beyond 15 days, all the requested approval are deemed to be approved.	As per RFP
162	2	Testing	6	Testing	Kindly provide entry and exit criteria of PAT, FAT, PIT, IAT, POP, SIT, SAT, BT, OAT for software components, if applicable.	As per RFP
163	2	Pilot Deployment	6	Failure to successfully demonstrate all required functionalities during pilot implementation shall lead to termination of the contract with no liability to Client.	Since there is a penalty structure already in place in case of malfunctions or similar exigencies, we request that the termination clause linked to performance of Pilot Implementation be deleted. Bidder shall get adequate chance to demonstrate the required functionalities during pilot implementation.	As per RFP
164	2	Pilot Deployment	6	The MSI shall conduct Pilot deployment and testing for meeting Client's business requirements before rolling out the complete system. The pilot will be operated for four weeks to study any issues arising out of the implementation. MSI shall also review health, usage and performance of	Kindly mention the deliverables and timelines for the pilot deployment.	Pilot deployment requirements and timelines will be finalized during

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				the pilot implementation until it has stabilized. Based on Client's feedback for incorporating changes as required and appropriate, MSI shall train staff involved in the Pilot implementation.		inception stage of the project
165	2	Testing	7	Factory Acceptance Tests (FAT): FAT shall be conducted before the component/solution is shipped to Client for installation, and deficiencies shall be rectified before shipping to Client for installation. All solutions furnished by the MSI shall be tested and subjected to a nominal 72-hours burn-in period at the factory. FAT shall be witnessed by Client's representatives at their discretion. Factory acceptance tests shall be conducted on randomly selected final assemblies of all equipment to be supplied. In case any of the selected samples fail, the failed sampled is rejected and additional 20% samples shall be selected randomly and tested. In case any sample from the additional 20% also fails the entire batch may be rejected;	We request you to amend the clause as below: Factory Acceptance Tests (FAT): FAT shall be conducted before the component/ solution is shipped to Client for installation, and deficiencies shall be rectified before shipping to Client for installation. All solutions furnished by the MSI shall be tested and subjected to a nominal 72-hours burn-in period at the factory. FAT shall be witnessed by Client's representatives at their discretion. Factory acceptance tests shall be conducted on randomly selected final assemblies of all equipment to be supplied. In case any of the selected samples fail, the failed sampled is rejected and additional 5% samples shall be selected randomly and tested. In case any sample from the additional 5% also fails the entire batch may be rejected;	As per RFP
166	2	Full Deployment, Documentation and Handover	13	All installation drawings shall be prepared in AutoCAD, GIS and Adobe Acrobat and provided on CD-ROM as well as hard copies. The drawings shall contain sufficient detail including but not limited to equipment dimensions, interfaces, cable details, equipment mounting and fire protection.	Who will be responsible for conducting the survey of the installation site and mapping of the same in GIS format? Please confirm.	MSI shall be responsible for conducting the survey and mapping the same in GIS format.

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167	2	Comprehensive Maintenance for System and Services	16	All spares required for the smooth operation of the smart city ICT components shall be maintained by the MSI for the entire duration of the contract to meet SLA requirements. The cost of the spares, repairs, and replacement shall all be deemed to be included in the price quoted by the MSI. MSI shall also institutionalize structures, processes and reports for management of SLA. Root cause analysis and long term problem solutions shall also be part of MSI scope.	Please provide the quantity of spares that would be required as a part of this tender.	As per RFP

MSI to ascertain the same to meet the requirements of the RFP |
| 168 | 2 | Network connectivity on Lease | 19 | The MSI shall in consultation with RSCL select a telecom operator who can provide the requisite city network backbone and managed infrastructure that will enable connectivity across all field devices, sensors, ICCC and DC & DR on lease basis | Since the method of selection of the bidder is LCBS, the bidders shall have limitations to consult with RSCL to select the telecom operator during the bidding stage. We request you to kindly amend the clause that "MSI shall select a telecom operator who can provide the requisite city network backbone and managed infrastructure that will enable connectivity across all field devise, sensors, ICCC and DC & DR on lease basis" | Please refer to the Corrigendum |
| 169 | 2 | Intelligent Traffic Management System (Integration for AI based intelligent analytics) | 20 | Red light violations, Zebra crossing violations, Speed violations, Free left violations, wrong direction movement, No Helmet, On-street parking, Use of cell phones while driving, No Seat-belt, and Triple Riding. | There are analytics use case mentioned at 3 different sections of the RFP page no, 20, 233 and 301, We understand qty 4500 nos given in RFP BOQ is combination of all, kindly confirm | Yes, the understanding is correct |
| 170 | 2 | Safety and Surveillance | 20 | Integration with existing safety & surveillance systems already implemented as part of the initiative taken by SP Office | We understand that integration is needed with ICCC application for collaboration monitoring, pl. confirm
In addition, kindly clarify no. of cameras to be interfaced and for which all locations? | Yes. MSI to collect the relevant information |

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171	2	Safety and Surveillance	20	Centralized AI based intelligent Video analytics at data centre for all the cameras installed	1) Kindly confirm AI is server based solution. 2) Kindly Confirm whether to consider AI in DR	1) Yes 2) No
172	2	Integration Requirements| Clause no: 10	22	All existing/future solutions related to e-governance, waste management, transportation, smart parking, as well as all future constructions,	Please confirm how many governance modules are there in the existing system and how many modules will predict in the future?	As per RFP MSI to ascertain the same to meet the RFP requirements
173	2	Integration Requirements	22	Smart Wi-Fi - ICCC should be able to map this information on the GIS layer and help authority monitor the Wi-Fi Hotspots across the city.	Who is responsible to carry out the survey of the features for mapping in GIS layers?	MSI shall be responsible for conducting the survey. RSCL shall facilitate in data collection for the same from the respective departments
174	2	Integration Requirements	22	Online GIS Platform: Completely integrated for all City Applications and Services. The GIS Platform shall act as the single unified data map for Rourkela. The Data collected/generated for the maps shall be available to all application/agencies from time to time.	It is assumed that all the data collected/generated will be provided by RSCL for GIS. Kindly clarify	MSI shall be responsible for collection of data for GIS. RSCL shall facilitate in data collection for the same from the respective departments.
175	2	ICCC/FR/6.01	28	· Should provide integration of the Incident Management application with the social media. · Should provide analytics based on the	Sentiment analysis or opinion mining is a difficult sub-field of Natural Language Processing and social media contains text, audio and video. To make an accurate	As per RFP

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				social media feed collected from the open source intelligence and collate with the surveillance inputs to alert the responders for immediate action on the ground. · Should extract messages and display it in an operational dashboard. · Should have ability of scenario reconstruction · Should be able to correlate the extracted message from the social media with existing other events and then should be able to initiate a SOP. · Should be able to take action directly to sensor execution based on requirement. · Should be able to identify the critical information and should be able to link it to an existing SOP or a new SOP should be started. · Should provide notifications to multiple agencies and departments (on mobile) that a new intelligence has been gathered through open source/social media.	comprehension of social media analytics, it is important that newer & established technologies like Deep Learning, a branch of Artificial Intelligence is used for better of city services. Please make use of Artificial Intelligence mandatory in Social Media Analytics (Sentiment Analysis or Opinion Analysis).	
176	2	ICCC/FR/7.01	28	Use of GIS tool which allows easy map editing for wide area monitoring (Compatible with Google map, Bing map, ESRI Arc GIS map, open GIS etc.).	Editing of features are only possible for data generated and hosted in RSCL database. Editing of Google map, Bing map available in service form are non-editable layers. Please describe the requirement.	As per RFP
177	2	ICCC/ FR/30.01	33	Video Display Should have an intuitive built-in video redaction module allows users without advanced video editing knowledge to spend less time when redacting video, while also ensuring accurate results are maintained. · Should have an ability to perform video controls for video systems from workstation · Shall play, fast-forward, rewind, pause,	Most of the specifications mentioned under this section is not a standard ICCC feature, these are relevant to the Video Surveillance/analytics OEM, hence request you to remove this clause from ICCC specifications and add it under Video Surveillance/analytics Specifications.	As per RFP This functionality will be required as part of system operations of ICCC platform.

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				and specify time to play recorded video · Shall take a video still image (snapshot) from live or recorded video · Shall export video for user specified time and duration in standard formats (like mp4, etc.)		Overall Solution should provide the functionality irrespective of the actual module/ component through which the functionality/ feature is supported
178	2	ICCC/FR/36.01	36	Should also be able to ingest other utilities, ERP, e-governance data.	Please provide us the ERPs details, which we have to use for data ingestion. Ex - Name, version, Technology	MSI to ascertain the same
179	2	ICCC/FR/37.01	36	Provides standard appliance or software or hardware combination to connect Iot devices / applications, provide secure connection to IT infrastructure, provide remote lifecycle management including software/firmware downloads and upgrades/updates, provides remote management, self-registration, and local administrative interface.	Please clarify whether MSI needs to provide any edge hardware or the platform should only support integration with edge devices	MSI needs to install edge devices as well as integrate the same with the platform
180	2	ICCC/FR/44.01	37	The Smart City dashboard shall also connect seamlessly to any state level dashboard view of identified and authorized other systems like CM Dashboard etc.	Please lets us know the number of users. Who will access the smart city dashboards? Also please lets us know the approx. numbers of the dashboard we have to develop for efforts estimations.	MSI to ascertain the same to meet the RFP requirements
181	2	ICCC/FR/47.01	38	The platform shall be available with unlimited number of user license for viewing and access across multiple departments, administrators and operators, as and when required without any licensing restriction on	In respect to conclude the required HW Sizing and calculating the system load, require confirmation on the Number of Total & Concurrent Users pertaining to Scanning, DMS and Workflow Solution, a. Please provide number of total DMS	Approx. 150 administrative users (RMC+RDA+R SCL)

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				concurrency of number of simultaneous users.	users (Considering users who will direct login & work) b. Please provide number of concurrent DMS users (Considering users who will direct login & work) c. Please confirm number of total workflow users (For Office Automation Modules & Citizen Centric Modules) d. Please confirm number of concurrent workflow users (For Office Automation Modules & Citizen Centric Modules)	
182	2	ICCC/FR/51.01	40	Advanced Predictive Analytics Should predict insights consuming data from city infrastructure viz., Traffic, Parking, Lighting etc.	Request you to elaborate on the use cases for each of the mentioned departments to have a comprehensive understanding of the expectations.	As per RFP
183	2	ICCC/FR/52.13	45	Platform Should support integrating standard edge appliance used to: connect industrial protocol devices, provide secure connection to cloud infrastructure, provide remote lifecycle management including software/firmware downloads and upgrades, Provide remote management, self-registration, and local administrative interface. · Should support edge appliance integration to abstract downstream industrial protocols and upstream internet protocols. · Edge appliance should be supported in three form factors : Over the Pole, in street Cabinet street appliances Should be light weight and small in size · Smart City platform should be functionally complete on the edge, providing local processing of events, contextualization, transformation, decisions and controls.	Please clarify whether the platform scope is only for integration? The RFP talks about specifications of hardware which is not relevant in this case	As per RFP

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				Business relevant events only passed to DC. · Smart City platform should allow to set or change the behaviour on the edge through policies, which could be defined through Data Centre Integrated Platform. · Edge devices should learn the behaviour as analysing the data to create better decisions with time. Share the outcomes with the cloud/platform to impact other edges. · Should support management tools to view, analyse, report on and modify the edge configurations. · Edges and cloud/On premise instances of platform should create a logical cluster to distribute the workload dynamically between the nodes, if and when applicable. · Edge software should not be dependent on sensors and devices or protocols. Same software blueprint should be deployed and running on all edges. The system shall be able to accommodate different edge analytical software as per the devices being integrated and each of these shall be usable on same deployed servers or other shared servers as per need. Data and Configurations can be different from edge to edge.		
184	2	ICCC/FR/52.13	46	Smart City platform should be functionally complete on the edge, providing local processing of events, contextualization, transformation, decisions and controls. Business relevant events only passed to DC.	Smart City platform should be functionally complete on the edge, providing local processing of events, contextualization, transformation, decisions and controls. Business relevant events only passed to DC. MSI can quote the compute at edge and or DC depending upon their solution.	As per RFP However, MSI may design the solution meeting the functional

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					Overall analytics is a mix of compute at Edge and at DC. Request to allow MSI to provide the appropriate solution as per their solution.	requirements of the RFP
185	2	ICCC/FR/52.20	48	The OS instances should be hardened as per the latest CIS CAT benchmarks with target of T-3 DC compliance requirement or >85% compliance. All actions should be audit-logged. Hardened OS shall have only required applications, process and permissions. All components should be hardened as per industry standards	Please clarify whether this is only for platform OS? If this point is applicable to all applications OS, then move it general section to cover for entire applications suite. There are other applications apart from ICCC platform and this should be applicable to all the OS's across the deployment.	As per RFP
186	2	ICCC/FR/52.22	48	· Platform should support user encrypted storage volumes. Restrict inbound access from public network only on secure ports via DMZ proxy instances. SSH access is restricted with secure key pair and from designated jump hosts alone. User management and authentication is tied to RSCL defined SSO for each access to the databases and physical hardware systems or for configuration systems. Daily reports on system level accesses, system usage performance reports shall be enabled on a dynamic dashboard and any breach in access detected at a later date shall lead to due penalties applicable to the MSI and to the unauthorized user under the IT Act of the Government of India or the state notifications from time to time · System should support following security features User encrypted storage volumes. Restrict inbound access from public	The given specs are covering for the whole infrastructure rather than only for platform. This should be moved from ICCC section to overall DC Security Mentioned requirement can be achieve with infrastructure security components like firewall, VPN server, web security, etc. which MSI will consider to make DC-DR secure, So please move this clause to DC security.	As per RFP This functionality is about the application security of the ICCC platform and not the Infrastructure security. Overall solution should provide functionality irrespective of the actual module / component through which the functionality

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				network only on secure ports via DMZ proxy instances SSH access is restricted with secure key pair and from designated jump hosts alone. User management and authentication is tied to Corporate SSO. Platform should have appropriate technical controls in place to prevent attacks that target virtual infrastructure · Platform should have appropriate controls in place to detect source code security defects, functionalities for any outsourced software development activities from suppliers, open source libraries		/ feature is supported
187	2	ICCC/FR/52.24	49	· Critical production assets: Platform vendor should maintain complete inventory of critical production assets. Asset could be defined as source code, documents, binaries, configuration data, scripts, supplier agreements, SW Licenses and these could be traceable online as well · Patch Management: Platform should have capabilities to patch vulnerabilities across VM infrastructure, applications and systems · Patch timeline / notifications: Platform vendor should provide risk-based systems patching time frames to tenants based on request · Secure SDLC: Platform should support automated source code analysis tool to detect security anomalies / defects in code prior to production	Our understanding is that this clause is part of EMS solution, So please move this clause to EMS section. This is EMS functionality so request you to please remove the same or move the same to EMS section. ICCC has different functionality which is to integrate & manage with all city use cases for the beneficial of Citizen.	As per RFP This functionality will be required as part of system operations of ICCC platform Overall solution should provide functionality irrespective of the actual module / component through which the functionality / feature is supported
188	2	ICCC/FR/52.26	49	Legal / Supplier chain agreements: Platform provider vendor should have policies and	Our understanding is that this clause is part of EMS solution, So please move this	As per RFP

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				procedures established, and supporting business processes and technical measures implemented, for maintaining complete, accurate and relevant agreements (e.g. SLAs) between providers and customers	clause to EMS section. This is EMS functionality so request you to please remove the same or move the same to EMS section. ICCC has different functionality which is to integrate & manage with all city use cases for better Citizen experience.	This functionality will be required as part of system operations of ICCC platform Overall solution should provide functionality irrespective of the actual module / component through which the functionality / feature is supported
189	2	ICCC/FR/52.30	51	Performance monitoring tool shall include following functionalities · Identify infra and/or application components between the user and backend servers that is causing the problems · Providing key performance indicators · Identify the inter-dependencies between application & infra components · Able to provide network/ system node causing the problem · Provide email, SMS and/or mobile alert mechanism if performances fall below predefined thresholds · Performance monitoring shall not adversely affect the performance of the platform · Should display the threat level based on the number of alerts and criticality of the	Our understanding is that this clause is part of NMS solution, So please move this clause to NMS section. This is NMS functionality and NMS will do all this endpoints monitoring, troubleshooting and other feature asked in this section .so request you to please remove the same or move the same to NMS section. ICCC has different functionality which is to integrate & manage with all city use cases for the beneficial of Citizen.	As per RFP

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				alerts using Color coded display. It should also follow a pre-defined system to alert different users on different hierarchy based on the criticality of alert		
190	2	ICCC/FR/52.32	51	Platform provider shall have 3 environments Development environment QA environment Production environment · All 3 environments shall be physically / logically separated · All should have same system & application software versions	Please clarify whether all 3 environments should have separate physical instances. The requested 3 environments will increase the necessary computing capacity drastically. It's sufficient to have only production environment and this is being followed in other smart cities. If this is mandatory then production environment can be separate and QA & Development can be combined.	MSI to define the number of environments as per their design, meeting the functional requirements of this RFP
191	2	ICCC/FR/52.34	51	ICCC platform should be compatible for backup and recovery software/solution implemented, Should support online database backup and recovery Support full, incremental, scheduled and on-demand backups	Our understanding is that this clause is part of Back-up and recovery solution, So please move this clause to backup and recovery section. Our platform support backup and recovery But specification mentioned is Backup tool/server functionality so please delete this section or move it to Backup software section.	As per RFP
192	2	ICCC/FR/54.01	54	Building management system	Kindly provide the Input/output (IO) Summary to design building management system	As per RFP
193	2	ICCC/FR/54.13	59	ICCC should be integrated with all the existing e-Governance services and must be delivered to the services citizens through Website/Portal and Mobile App	As understood from various smart city project experience at different states, Paperless Office Automation Solution / E-Governance System is a very important application for Smart City Initiatives and should consist of the following modules, a. File Movement & Tracking b. Correspondence/DAK Movement & Tracking	As per RFP

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					c. Office Note Approval System d. Grievance Redressal System e. Committee & Meeting Management System f. Legal Case Management g. Parliamentary Query Management Please confirm whether the above modules are already there in existing E-Governance Application and in any case, those modules are not there in existing solution, requesting RSCL Committee to make the needful incorporation in the RFP.	
194	2	ICCC/FR/54.13	59	ICCC should be integrated with all the existing e-Governance services and must be delivered to the services citizens through Website/Portal and Mobile App	As understood from this RFP Statement that the required above DMS & Workflow Solution should have the integration capability with proposed Portal with the following objectives, a. Initiation of any Citizen Centric Service and its Processing (User will initiate the request through needful data feeding at portal and the request will get processed at integrated BPM based Workflow Solution) b. Accessing of any DMS archived documents (User will put the request through portal and respective documents will get retrieved from the backend DMS repository) Please confirm whether the above understanding is correct.	As per RFP
195	2	ICCC/FR/54.13	59	ICCC should be integrated with all the existing e-Governance services and must be delivered to the services citizens through Website/Portal and Mobile App	In assumption to the above understanding is correct, the required DMS & Workflow Management Solution need to be integrated with the following proposed & existing applications, 1. Portal 2. Active Directory 3. SSL	As per RFP

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					4. SMS 5. Email Please clarify whether apart from the above, any other application need to be integrated with DMS & Workflow Solution and if 'YES', requesting RSCL to mention the name of those applications.	
196	2	IOT Framework	60	Should be able to perform Device Management	Our understanding is the Device Management has to be done by respective vertical applications/systems from Security and Management perspective, kindly confirm. Sensor Device Management is generally done by sensor vertical management application neither they will allow or expose API's/SDK's to do this functionality for security reason.	As per RFP
197	2	ICCC/TR/1.01	61	Approximate space of around 20000 sq.ft is proposed for the development of the Integrated Command and Control Centre. The proposed layout comprises of ICCC building with G+3 floor construction.	Kindly clarify that Building civil construction is not part of this RFP	Building construction is outside the scope of this RFP
198	2	ICCC/TR/2.02	62	The native resolution of each Visual Display Unit / Rear Projection Module should be 1920 X 1080 pixels (Full HD) and should have LED as its light source.	We request you to please change the Light source from LED to Laser, as it is a new proven technology and already installed in multiple smart cities and has multiple advantages over LED such as Higher lifetime, more brightness and support to 4K/Multiple Contents.	Please refer to the Corrigendum
199	2	ICCC/TR/2.03	62	Each cube size to be 70" (70 Inches diagonally) or more with complete configuration of (5 cubes x 3 cubes) with covered base. All cubes have to be of the exactly same size, configuration and model wise mandatorily. The wall to be	We request you to please change the size of cubes from 70" to 50". This will have following advantage. This will allow more nos. of cubes to be placed in same given space as compare to	As per RFP

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				installed in curved fashion with all required support system like Controller / stand for DLP Cubes / Interfaces / Connecting cables.	70" screen size. This will result in obtaining more HD screen in the same space which will lead to access more no. of inputs in same space. Therefore, instead of 5x3 cubes (15 HD Screens) we can have 7x4 cubes 0f 50" Laser means 28 HD screen in almost similar space	
200	2	ICCC/TR/2.04	62	The native resolution of each Visual Display Unit / Rear Projection Module should be 1920 X 1080 pixels (Full HD) and should have LED as its light source.	The overall resolution of the Video wall shall be minimum 19000 x 6400 and should have Laser as its light source.	Please refer to the Corrigendum
201	2	ICCC/TR/2.04	62	The native resolution of each Visual Display Unit / Rear Projection Module should be 1920 X 1080 pixels (Full HD) and should have LED as its light source.	The native resolution of each Visual Display Unit / Rear Projection Module should be 1920 X 1080 pixels (Full HD) and should have Laser as its light source.	Please refer to the Corrigendum
202	2	ICCC/TR/2.10	62	The inter screen gap (bezel gap) should be <1 mm	We request you to please include the Rear Access of video wall solutions for maintenance and this will also allow the solution to achieve the inter screen gap of 0.2mm @ 25-30 degrees temperature, which is standard temp. In any control rooms.	As per RFP
203	2	ICCC/TR/2.11	62	Analog D-sub/Ethernet/Digital DVI/Digital HDMI (as per solution)	We request you to please add Full HDBaseT input also along with other inputs mentioned here.	Please refer to the Corrigendum
204	2	ICCC/TR/2.11	62	Input - Analog D-sub/Ethernet/Digital DVI/Digital HDMI (as per solution)	We request you to please add Display port input also along with other inputs mentioned here.	Please refer to the Corrigendum
205	2	ICCC/TR/2.16	63	The Cube shall have redundancy in power supply, LED light source.	We understand that the Power supply of the cube in redundant and will be placed inside the cube itself. Please confirm the same.	Yes, it should be redundant either inside or outside of cube
206	2	ICCC/TR/5.04	65	RAM - Minimum 8 GB DDR3 ECC Memory @ 1600 Mhz. Slots should be free for future	Minimum 8 GB DDR4 ECC Memory @ 2666 Mhz. Slots should be free for future	As per RFP However,

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				upgrade. Minimum 4 DIMM slots, supporting up to 32GB ECC.	upgrade. Minimum 4 DIMM slots, supporting up to 64 GB ECC	bidder may provide equivalent or better solution to meet the RFP requirement
207	2	ICCC/TR/5.06	65	HDD - Minimum 2 TB SATA-3 or latest Hard drive @7200 rpm with Flash Cache of 64GB SSD. Provision for installing 4 more drives.	Minimum 2 TB SATA-3 or latest Hard drive @7200 rpm with Flash Cache of 64GB SSD. Provision for installing 2 more drives	Please refer to the Corrigendum
208	2	ICCC/TR/5.10	65	Ports - Minimum 6 USB ports (out of that 2 in front)	Minimum 6 USB 3.1 ports including 1 Type C port (out of that 2 in front)	As per RFP
209	2	ICCC/TR/5.13	65	PTZ joystick controller (with 2 of the workstations in ICCC)	As per the given specifications, we understand that we need to consider 2 PTZ joystick. Kindly confirm.	Yes with each workstation
210	2	ICCC/TR/5.17	65	Security - BIOS controlled electro-mechanical internal chassis lock for the system.	BIOS controlled electro-mechanical internal chassis lock for the system or chassis physical security lock. 1 OEM proprietary asked	Please refer to the Corrigendum
211	2	ICCC/TR/6.1	65	Online UPS for Field location Adequate capacity to cover all above IT Components at respective field locations	Pls confirm the UPS capacity & backup time	MSI to ascertain the same to deliver the outcome
212	2	ICCC/TR/6.13	66	Online UPS for Field location i) Operating temperature :As per City requirement	As per OEM, 0 - 40 deg operating temperature	As per RFP
213	2	ICCC/TR/6.15	66	Bypass Automatic, Manual Bypass Switch	Manual Bypass Switch shall be excluded as not a standard parameter on LCD in all reputed OEMs	As per RFP
214	2	ICCC/TR/7.1	66	Online UPS for indoor location Adequate capacity to cover all above IT Components at respective location	Pls confirm the UPS capacity	MSI to ascertain the same to deliver the outcome

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215	2	ICCC/TR/7.1	66	Adequate capacity to cover all above IT Components at respective location	Need rating of UPS in KVA On-Line UPS rating is not mentioned in entire specification	MSI to ascertain the same to deliver the outcome
216	2	ICCC/TR/7.4	66	Input - Three Phase 3 Wire for over 5 KVA	Please confirm the rating of UPS for which 3-Phase Input required Below 10KVA UPS rating Single Phase INPUT connectivities required, as maximum site do have cable connectivities of Single Phase IN for UPS upto 10KVA.	As per RFP
217	2	ICCC/TR/7.19	67	Operating Temp - 0 to 50 degrees centigrade	Operating Temperature to be 0 to 40 degrees centigrade, above 40 degree the UPS will be derate. Battery required 26 degree C to operate. As UPS do kept next to Battery, if the operating temperature is 50 degree C then battery will fail.	As per RFP
218	2	ICCC/TR/8.3	67	Processor - Intel Core i7-latest generation (3.0 Ghz) or higher OR AMD A10 7850B (3.0 Ghz) processor or higher OR Equivalent 64 bit x86 processor.	Intel Core i7-latest generation (3.0 Ghz) or higher OR AMD Ryzen 7 pro 1700 processor or higher OR Equivalent 64 bit x86 processor	Please refer to the Corrigendum
219	2	ICCC/TR/8.12	67	Power supply - Maximum Rating 250 Watts, 80 plus certified power supply	Maximum Rating 260 Watts, 80 plus certified power supply	Please refer to the Corrigendum
220	2	ICCC/TR/8.13	67	Keyboard - 104 keys Heavy Duty Mechanical Switch Keyboard (USB Interface) with 50 million keystrokes life per switch. Rupee Symbol to be engraved.	104 keys Heavy Duty Mechanical Switch Keyboard (USB Interface) with 50 million keystrokes life per switch. Rupee Symbol to be engraved. (please allow 3rd party keyboard as we don't have mechanical keyboard)	As per RFP
221	2	ICCC/TR/9.3	68	Processor - Intel Core i7 with latest generation or higher (OR) AMD A10 PRO 7300 (1.9Ghz) Processor or higher (OR) Equivalent 64 bit x86 processor	Intel Core i7 with latest generation or higher (OR) AMD Ryzen 7 Processor or higher (OR) Equivalent 64 bit x86 processor	Please refer to the Corrigendum

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222	2	ICCC/TR/11.4	69	1/3" Progressive Scan CCD / CMOS	1/2.8", 2.0 megapixel, progressive scan, CMOS or better Reason: Smaller the sensor size the wide view it gets	Please refer to the corrigendum
223	2	ICCC/TR/11.6	69	Auto IRIS 2.8-10mm	Auto Iris, 2.8 ~ 12mm, AF automatic focusing and motorized zoom lens Reason: It should be motorise lens so that it can be controlled from ICCC	Please refer to the Corrigendum
224	2	ICCC/TR/11.7	69	Dual streaming with 2nd stream at minimum 720P at 30fps at H.264, H.265 individually configurable	Triple streaming with 2nd stream at minimum 720P at 30fps at H.264, H.265 individually configurable	As per RFP
225	2	ICCC/TR/11.8	69	Colour: 0.1 lux, B/W: 0.01 lux (at 30 IRE)	Colour: 0.005Lux (F1.2, AGC ON) 0Lux with IR Reason: It'll help to see camera in very less light also even with the colour image	Please refer to the Corrigendum
226	2	ICCC/TR/11.14	69	Full duplex, line in and line out, G.711, G.726	Full duplex, line in and line out, G.711/G.726	Please refer to the Corrigendum
227	2	ICCC/TR/11.15	69	MicroSDXC up to 32GB (Class 10) In the event of failure of connectivity to the central server the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the server recording such that no manual intervention is required to transfer the SD card based recordings to server.	MicroSDXC/Micro SD card support up to 256GB. MSI should load 128GB (Class 10) card. In the event of failure of connectivity to the central server the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the server recording such that no manual intervention is required to transfer the SD card based recordings to server. Reason: At least 256 GB should be supported so that at least 3 days could be stored	As per RFP

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228	2	ICCC/TR/11.21	69	NEMA 4X / IP-66 rated & IK 09	IP67 Rated & IK10 Reason: Since it will be outdoor it should bbe IP 67	Please refer to the Corrigendum
229	2	ICCC/TR/11.22	69	Certification> UL2802 / EN, CE ,FCC	IEC, CE and CE 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 Certificate is widely used in the tenders which majorly focus on the safety of the product. UL-2802 being a sub-category of the entire UL category. Thus, requesting to amend the clause to Certification-UL,CE ,FCC	Please refer to the Corrigendum
230	2	ICCC/TR/11.22	69	Certification: UL2802 / EN, CE ,FCC	Requesting you to accept: CE, FCC & UL/EN/BIS • UL, EN and IS (Indian Standard) are equivalent safety standards, all of them being derived from IEC (International Electro-technical Commission), who prepare and publish international standards for Electrical and Electronic Equipment. • The equivalence of UL, EN, IS and IEC is also clearly mentioned in the letter from Joint Secretory, DeitY to Joint Secretory MHA. (Annexure -III) • Ministry of Urban Development (MoUD) issue a order No: K-14012/101(17)/2017-SC-III-A . Where it state that Indian company should not restrict due to foreign certification asked in tender. MoUD Policy Enclosed (Annexure: IV) • Due to security reasons, Ministry of Electronics and Information Technology	Please refer to the Corrigendum

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					(MeitY) has notified a Compulsory Registration Order (CRO) for Electronic Equipment. CCTV Camera and Recorders have been covered under this order from 23rd May' 2018 and the Indian Standard, i.e. IS 13252- Part1 has been made mandatory for CCTV Camera and CCTV Recorders. BIS has adopted IS 13252 -1 as the Indian Standard. (Annexure -V) • The Government has issued Public Procurement (Preference to Make in India) Order 2017 vide the Department of Industrial Policy and Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017 which is further revised vide No. P-4502 I/2/2017-PP (BE-II) dated 28.05.2018 to encourage 'Make in India' states on Page 3, point 10: " For any telecom product, service and work as in Table-A, the procuring entity should not specify to bidder to mandatory qualify any foreign eligibility specifications or certification(s) issued by any foreign testing/security lab(s)" (Annexure -VI) • Therefore, BIS shall be the only certification asked for CCTV cameras and Recorders.	
231	2	ICCC/TR/11.22	69	Certification - UL2802/EN, CE, FCC	Certification - UL, CE, FCC UL2802 is non-standard and is not available across CCTV OEMs. We request you to consider UL, CE and FCC for fair OEM competition.	Please refer to the Corrigendum
232	2	ICCC/TR/11.23	70	Power- 802.3 PoE (Class 0) and 12 VDC /24 VAC	Power- 802.3 PoE and 12 VDC /24 VAC	As per RFP

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					Class 0 is very low power devices whereas CCTV works at around 10W rating.	
233	2	ICCC/TR/12.1	70	The multipoint function be done using a common server running VMware based Appliance Virtualization Platform and support H.323 and SIP optionally supporting H.263 , H.264, H.265 , H.264, H.265 High Profile and H.264, H.265 SVC	We request you to delete H.265, H.265 High Profile and H.265 SVC as they are specific to an OEM	As per RFP
234	2	ICCC/TR/12.2	70	The Video infrastructure should support H.239 standard for sending/receiving multiple streams of video and presentation content. The H.239 support should not cost additional conference ports supporting 1080p30 for presentation and should allow web collaboration plug in for annotation and white boarding and application sharing	Please delete annotation and white boarding as they are specific to an OEM and have no relevance for an MCU	As per RFP
235	2	ICCC/TR/12.6	71	Should Support H.263, H.264, H.265, H.264, H.265 Hi-Profile, VP8.	We request you to delete H.265, H.265 High Profile as they are specific to an OEM	As per RFP
236	2	ICCC/TR/12.19	74	It shall be possible to receive resolutions of 1080p on desktop clients.	We request you to change the clause to "It shall be possible to receive resolutions of 720p on desktop clients" as 1080p resolution is not possible on desktops. 1080p resolution on desktop is specific to an OEM	As per RFP
237	2	ICCC/TR/12.19	74	It shall be possible to annotate over the presentation. The annotations should be sent as part of the standard H.239 stream so it is visible on all other H.239 complaint endpoints (software or hardware) connected to the conference	We request you to delete this clause as it is specific to an OEM	As per RFP
238	2	ICCC/TR/12.19	74	The desktop client should support white-boarding and web collaboration	We request you to delete this clause as it is specific to an OEM	As per RFP
239	2	ICCC/TR/14.1	75	The EPABX should have facility to accept at least 10 PRIs and should scale up to 1000 extensions to support the mix of analogue, digital and IP phones.	We request you to delete digital phones as IP phones are better than digital phones	As per RFP

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240	2	ICCC-NIT/TR/8.01	99	Controlled entries and exits for visitors	Kindly confirm whether we need to include Separate visitor management system along with access control system	MSI to decide as per their design requirement
241	2	Data Centre and Disaster Recovery Centre | Scope of Work	105	Till the designated ICCC building is ready, the MSI shall setup a temporary Data Centre at a space provided by RSCL. It shall be the responsibility of the MSI to migrate the temporary Data Centre to the proposed ICCC building, once ready.	Please share the location of On premise primary data centre	Location of data centre shall be finalized at the time of Requirement Study
242	2	Data Centre Hardware and Software Components | Technical Requirements	106	Data Centre Hardware and Software Components	Please confirm the hardware/software specification provided in this section are not applicable for DR site. Since DR has been demanded on MeiTY cloud and RSCL environment will be deployed as per MeiTy guidelines.	Yes
243	2	DCH/TR/1.01	106	Chassis should have a minimum 6 x 1G SFP or more ports populated with Multi-mode transceivers. It should also support min 4 X10G interface on the same chassis for the redundant link and have support for T1/E1, V.35 or STM interface.	Chassis should have a minimum 6 x 1G SFP or more ports populated with Multi-mode transceivers. It should also support min 2 X10G interface on the same chassis for the redundant link and have support for T1/E1, V.35 Or STM1/STM4 interfaces. Request to rephrase the clause to ensure that the router should have support for various interface types which will provide more flexibility in terms of links termination.	As per RFP
244	2	DCH/TR/1.01	106	Design and Architecture: • Chassis should have a minimum 6 x 1G SFP or more ports populated with Multi-mode transceivers. It should also support min 4 X10G interface on the same chassis for the redundant link and have support for T1/E1, V.35 or STM interface. The router should be provided with Min two Routing	Remove Below: V.35 • The Fixed Router shall have integrated route processor, embedded services processor, and Interface modules and adaptors for future scale. V.35 interface on core is not recommended as it supports only 2Mbps of bandwidth, as	As per RFP

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				module for bringing redundancy • The Fixed Router shall have integrated route processor, embedded services processor, and Interface modules and adaptors for future scale. Router should support a dedicated Processor for forwarding and encryption functions, independent of the Route Processor.	per todays and future bandwidth needs this might not fulfil the requirement.	
245	2	DCH/TR/1.01	106	All modules, fan trays & Power supplies should be hot swappable and should support online insertion and removal. Shall have the support for redundant power supplies. • The router should be able to provide with 2 Operating System/redundant management module for bringing redundancy	Remove Below: fan trays & The router should be able to provide with 2 Operating System/redundant management module for bringing redundancy while we have two route modules it will provide the redundancy for hardware and software.	As per RFP
246	2	Data Centre and Disaster Recovery Centre | Internet Zone	106	IPS/IDS	You have mentioned IPS/IDS in architecture and in scope of work and at number of other places, but there are no specifications mentioned on the same. Kindly add minimum specifications on NIPS so that SI able to provide the same and IPS is required for deep packet inspection at network level and protect from zero day threats along with DoS/DDoS, exploits & various malwares.	Please refer IPS section
247	2	DCH/TR/1.01	107	The router should have min 40 GBPS throughput.	The router should have minimum 20 Gbps throughput. The required interface asked in the RFP is only 10G. In that case, it is impossible for the router to have traffic of 60 Gbps coming in at any single point of time. Even if the interfaces are bundled together, the aggregate bandwidth will never reach that limit. hence, request to reduce the same to	As per RFP

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					20Gbps, else it will be an unnecessary overkill	
248	2	DCH/TR/1.01	107	Router Processors should have minimum 1GB of internal memory to support multiple software images for backup purposes and future scalability. The router should support redundant routing engine with min 4GB of RAM	Router Processors should have minimum 1GB of internal memory to support multiple software images for backup purposes and future scalability. The router should support redundant routing engine with min 8GB of RAM. The RAM being asked for a core router is too low and will impact the overall performance of the device.	As per RFP
249	2	DCH/TR/1.03	107	Should support dual images for redundancy. Should have modular software images, so that each software process runs independent of the other thus allowing for higher stability. Should also support online upgrade of patches for specific processes or ISSU without affecting traffic forwarding operations on the router.	Remove below: Should support dual images for redundancy ADD below: Should support multiple image files in the system. Should support multiple configuration files. If multiple image files present in the router, we can load the image accordingly as per requirement with no need to uploading images to routers. Multiple configuration files helps in easy rollback of last known good configuration.	As per RFP
250	2	DCH/TR/1.06	108	Should support Fast Ethernet and Gigabit Ethernet, 10G Ethernet LAN support with ports in compliance with 802.3 standards.	Fast Ethernet is now obsolete, specifically in Core Router it is also not relevant. Request to please change as "Should support Gigabit Ethernet, 10G Ethernet LAN support with ports in compliance with 802.3 standards."	As per RFP
251	2	DCH/TR/1.07	108	Adapters holding interface modules should be optimized and have sufficient memory/bandwidth support to ensure no hindrance in the overall architecture and	All the interface modules should have sufficient bandwidth support to ensure that it does not become a hindrance in any way in the overall architecture and should	As per RFP

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				should support large routing tables, rich Quality of Service features, and increased scalability.	complement the router's capability to support large routing tables, rich Quality of Service features, and increased scalability. The router has been asked as a fixed form factor and hence the interface module is not applicable, which comes in a chassis based solution. Moreover, separate memory on the interface module is not supported on all the OEM platforms, which will make this point OEM specific and only a single OEM will be able to comply	
252	2	DCH/TR/3.09	109	The solution should be scalable and stable solution to support up to 2000000 endpoints for AAA in future using additional appliances	Please change clause to "The solution should be scalable and stable solution to support 100,000 endpoints for AAA in future using additional appliances" As per RFP solution is required to support 25,000 endpoint from day one and 20Lac endpoint is 80 times which is very high and hence requesting change	As per RFP
253	2	DCH/TR/3.13	110	Appliance should provide disk or file encryption.	Please change the clause to " Solution should support disk or file encryption condition check" Endpoint which is critical component in setup may be checked against disk encryption policies and hence requesting change	As per RFP
254	2	DCH/TR/3.22	110	Solution should have fully integrated support for Microsoft /Linux/Unix allowing health and posture checks on Windows endpoints without the need to install an agent	Please change clause to "Solution should support for Microsoft /Linux/Unix Operating System allowing health and posture checks with or without the need to install an agent" Objective is to check the health of system	Please refer to the Corrigendum

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					before they are allowed access to network and proposed solution should achieve the functional requirement and hence requesting change	
255	2	DCH/TR/3.28	110	The solution should allow for the complete separation of Authentication and Authorization sources. For example, authentication against Active Directory but authorize against Local database	Please change the clause to "The solution should allow for the Authentication and Authorization. In all circumstances users are stored in AD or LDAP or local. Using different would create a confusion and hence requesting change	Please refer to the Corrigendum
256	2	DCH/TR/3.32	111	The solution should have policy creation or equivalent tools to deliver: · Pre-configured templates · Wizard based interface · LDAP browser for quick look-up of AD attributes · Policy simulation engine for testing policy integrity	Please change the clause to "The solution should have policy creation tools or equivalent: · Pre-configured templates · Wizard based interface · LDAP browser for quick look-up of AD attributes" Few of sub-clauses are specific to OEM and hence requesting generalising the requirement	As per RFP
257	2	DCH/TR/3.33	111	The solution should support the following enforcement methods: · VLAN steering via RADIUS IETF attributes and VSAs · VLAN steering and port bouncing via SNMP · Access control lists – both statically defined filter-ID based enforcement, as well as dynamically downloaded ACLs · Roles Based Access or any other vendor-specific RADIUS attribute supported by the network device.	Please change the clause to: "The solution should support the following enforcement methods or equivalent: · VLAN steering via RADIUS IETF attributes and VSAs · VLAN steering and port bouncing via SNMP or equivalent · Access control lists – both statically defined filter-ID based enforcement, as well as dynamically downloaded ACLs · Roles Based Access or any other vendor-specific RADIUS attribute supported by the network device.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					Few of sub-clauses are specific to OEM and hence requesting generalising the requirement	
258	2	DCH/TR/3.43	111	The solution should support Cluster deployment provides High Availability (HA) solution with no touch automatic failover from day one	Please confirm whether Required DMS & Workflow Solution should come with the following Environments, 1. Production (With Active-Active Clustering OR Active-Passive Clustering) 2. DR Environment 3. UAT Environment 4. Development/Test/SIT Environment	High Availability shall be ensured only for production environment, rest all environment shall be decided by MSI to provide outcome
259	2	DCH/TR/3.46	111	The solution should supports Profiling and MDM integration, to gather endpoint attributes for policy enforcement through base appliance or any other integrated solution	Please change the clause to "The solution should supports Profiling and MDM integration, , to gather endpoint attributes for policy enforcement" As per our understanding Rourkela smart city RFP is not looking for mobile device management from day one and hence requesting change. Such integration is supported by all leading OEMs.	As per RFP The solution should support Profiling and MDM integration, to gather endpoint attributes for policy enforcement through base appliance or any other integrated solution
260	2	DCH/TR/3.49	111	The solution should support Advanced Posture Health Classes for Windows and OSX like Disk Encryption, Virtual Machines, USB, P2P apps	Please change the clause to "The solution should support Advanced Posture Health Classes for Windows and OSX like Disk Encryption, Virtual Machines/Service, USB, P2P apps"	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					This is specific to OEM and hence requesting change	
261	2	DCH/TR/3.51	112	The solution should supports Microsoft, Apple, Unix and Linux operating systems	Please change the clause to "The solution should supports Microsoft, Apple / Unix / Linux operating systems This is specific to OEM and hence requesting change	As per RFP It is critical for the proposed solution to support various operating systems to ensure interoperability
262	2	DCH/TR/3.56	112	Guest solution has ability to make changes to a visitor account's session while it is in progress.	Please delete this clause Permitting confirm whether the infrastructure would allow guest users to access network and if so whether those guest users should be allowed to authenticate using these 3rd party applications. It could be highly risky to permit such type of access in smart cities infrastructure and hence requesting removal of clause	As per RFP The objective of this functionality is not to dilute the security
263	2	DCH/TR/4.02	112	Should have real time content classification and security scanning with automatic database updates for various security categories - Advanced malware / Antivirus command and control, Advanced malware / Antivirus payloads, Bot networks, Compromised websites, key loggers, Phishing and other frauds, Spywares	Please change the clause to "Should have real time content classification and security scanning with automatic database updates for security categories- Advanced malware command and control, Advanced malware payloads, Bot networks, Compromised websites, key loggers, Phishing and other frauds, Spywares or equivalent" While leading OEM have categories to support to mentioned threats but	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					terminology used is different. Hence requesting change	
264	2	DCH/TR/4.02	112	Should have real time content classification and security scanning with automatic database updates for various security categories - Advanced malware / Antivirus command and control, Advanced malware / Antivirus payloads, Bot networks, Compromised websites, key loggers, Phishing and other frauds, Spywares	The web traffic only flows through key web protocols, HTTP, HTTPS and FTP but can use any application. Every vendor has different names to categories. So the point should be "Should have real time content classification and security scanning with automatic database updates for various security categories/applications."	As per RFP
265	2	DCH/TR/4.03	112	Should inspect the sensitive content through 1500 pre-defined templates, textual content inside image, cumulative content control and inspection through web channel to prevent the content from being sent over outbound web channel	This is a DLP specification and beyond the scope of proxy. Also textual content inside image is done by OCR which is in the scope of DLP and not proxy. Hence request to remove this specification from web security to DLP section in the RFP.	As per RFP
266	2	DCH/TR/4.03	112	Should have ability to inspect and protect the sensitive data and filter based on incident location	Inspecting and protecting sensitive data comes under the purview of DLP and not web security. Hence request to put the specification in DLP section	As per RFP
267	2	DCH/TR/4.03	112	· Should inspect the sensitive content through 1500 pre-defined templates, textual content inside image, cumulative content control and inspection through web channel to prevent the content from being sent over outbound web channel. · Should have ability to provide geo-location awareness for security incidents. · Should have ability to inspect and protect the sensitive data and filter based on incident location.	Please delete this clause This is specific to OEM and hence requesting change	As per RFP
268	2	DCH/TR/4.03	112	Should inspect the sensitive content through 1500 pre-defined templates, textual content inside image, cumulative content control and inspection through web channel	This a DLP feature and which is already part of the RFP. Therefore, this point should be removed.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				to prevent the content from being sent over outbound web channel		
269	2	DCH/TR/4.04	112	Solution vendor should ensure that 100 predefined categories & 100+ pre-defined protocols	This is a limited OEM specification and hence request it to be modified. Please find the reference: https://www.forcepoint.com/product/feature/master-database-url-categories https://www.forcepoint.com/product/feature/master-database-protocol-categories. Request this to be modified as "Solution vendor should have 78+ URL categories and solution must support single URL in 4 different categories"	As per RFP
270	2	DCH/TR/4.04	112	Solution vendor should ensure that 100 predefined categories & 100+ predefined protocols.	Please change the clause to "Solution vendor should ensure that 80 predefined categories or more & predefined protocols." This is specific to OEM and hence requesting change	As per RFP
271	2	DCH/TR/4.04	112	Solution vendor should ensure that 100 predefined categories & 100+ pre-defined protocols	The web traffic only flows through key web protocols, HTTP, HTTPS, FTP but can use any application. The solution should support multiple applications out of the box. Also, every vendor have different categorization name and different way of grouping them. Therefore the points needs to be changed to "Solution vendor should ensure multiple predefined categories & 100+ pre-defined applications"	As per RFP
272	2	DCH/TR/4.05	112	Solution should be on premises and not with the help of SAAS i.e. mobile user traffic should redirect to on premise solution for policy checks.	This is a limited OEM specification. Hence request this to be removed for greater OEM specification. Please find the reference: https://www.websense.com/content/support/library/web/v80/remote_filtering/first.aspx	As per RFP
273	2	DCH/TR/4.05	112	· Should support same policy enforcement in real time policy sync for users even when they access Internet outside the corporate	Please remove this clause As per our understanding users are static and not roaming and hence this is not	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				network, this should be enforced through an agent deployment on roaming endpoints ((MAC and Windows - MAC OS X 10.10 and MS Windows 10 or above) . · Solution should be on premises and not with the help of SAAS i.e. mobile user traffic should redirect to on premise solution for policy checks.	relevant for smart cities users base and hence requesting deletion	
274	2	DCH/TR/4.06	112	Should have ability to block anonymizer sites or proxy avoidance tools. Should be provided in default protocol database Ghost surf, Google web accelerator, Hopster, Jap, Real tunnel, Socks online, Tongtongtong, Toonel, Tor, Yourfreedom among others	Please remove this clause This is specific to OEM and hence requesting change	As per RFP
275	2	DCH/TR/4.07	113	Should apply security policy to more than 100 protocols in multiple categories more than 15.	Please change to to "Should apply security policy to more than 100 protocols in multiple categories more than 15. or equivalent This is specific to OEM and hence requesting change	Please refer to the Corrigendum
276	2	DCH/TR/4.07	113	Should apply security policy to more than 100 protocols in multiple categories more than 15. This includes the ability to allow, block, log, and assign quota time for IM, P2P, and streaming media and solution should provide at least below mentioned security categories as below right from first day · Advanced Malware Command and Control category · Advanced Malware payload detection category · Malicious embedded links and iframe detection category · Mobile malware category	The web traffic only flows through key web protocols, HTTP, HTTPS, FTP but can use any application. Every vendor has different names for the categories. The point therefore should be changed to - "Should apply security policy to more than 100 application. This includes the ability to allow, block, log, and assign quota time for IM, P2P, and streaming media and solution should provide protection against multiple applications performing Malware Command and Control connection, malicious paylod download, Keylogger and spyware activities etc."	Please refer to the Corrigendum

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				· Key logger and Spyware category · P2P software database from day 1 to control/block the below P2P protocols		
277	2	DCH/TR/4.08	113	· Should have granular control over popular social web applications like Facebook, LinkedIn, Twitter, YouTube, and others. · Should have social control video uploads to Facebook, Twitter, Instagram, YouTube and similar applications. · Should have built-in or custom policies for identifying and segregate You Tube traffic for education only and other irrelevant non-compliance video, · Should simplify design and implementation of policy to ensure user compliance	Please remove this clause As per our understanding users are static and not roaming and hence this is not relevant for smart cities users base and hence requesting deletion	As per RFP
278	2	DCH/TR/4.09	113	Should provide geo-location awareness for security incidents. ☐ Should provide inbuilt capability malicious content of password and unknown encryption files. ☐ Should support to have capability to differentiate between educational and entertainment videos through default categories and should have separate default categories for the same.	Please remove this clause This is specific to OEM and hence requesting change	Please refer to the Corrigendum
279	2	DCH/TR/4.09	113	Should provide inbuilt capability malicious content of password and unknown encryption files.	This point seems incomplete. Moreover, as understood the solution should be able to find malicious content in password protected and unknown encrypted files. Since password-protected file cannot be scanned until the password is known by any solution the point should be : "Should have inbuilt capability to scan encrypted traffic for malicious content"	Please refer to the Corrigendum

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
280	2	DCH/TR/4.09	113	Should provide inbuilt capability malicious content of password and unknown encryption files	This is a limited OEM specification and hence request it to be removed. Please find the reference: https://www.websense.com/content/support/library/data/v85/policy_classifier/web_dlp.aspx. https://www.websense.com/content/support/library/data/v84/policy_classifier/compromise.aspx. For greater performance request to add " Solution should support be able to support streaming media splitting and caching and support content pre population"	Please refer to the corrigendum
281	2	DCH/TR/4.10	113	Should have visibility and blocking for cloud applications and shadow IT application usage for enhanced security	This is a CASB specification and for cloud applications. Hence this is beyond the scope of proxy and comes under purview of CASB and DLP. Hence request it to be removed from this section	As per RFP
282	2	DCH/TR/4.10	113	Should have visibility and blocking for cloud applications and shadow IT application usage for enhanced security.	Please remove this clause As per our understanding users are static and not roaming and hence this is not relevant for smart cities users base and hence requesting deletion	As per RFP
283	2	DCH/TR/5.01	113	The solution should detect and prevent content getting posted or uploaded to specific websites, blogs, and forums accessed over HTTP, HTTPS. The solution should be able to enforce policies by URL's, domains or URL categories either natively or by integrated Web Security solution. The solution should be able to monitor FTP traffic including fully correlating transferred control information and should be able to monitor IM traffic even if it's tunneled over HTTP protocol.	Please change the clause to ""The solution should detect and prevent content getting posted or uploaded to specific websites, blogs, and forums accessed over HTTP, HTTPS. The solution should be able to enforce policies by URL's, domains or URL categories. The solution should be able to monitor FTP traffic including fully correlating transferred control information and should be able to monitor IM traffic even if it's tunneled over HTTP protocol." This clause could give undue advantage to	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					OEM proposing Web Security Solution and unintentionally restrict participation. Hence we request to ensure that Web Security and DLP solution should be from different OEM.	
284	2	DCH/TR/5.03	113	The proposed solution work as a MTA to receive mails from mail server and inspect content before delivering mails to next hop and should quarantine emails that are in violation of company policy.	Please remove this clause MTA is deployed at the perimeter of network and receive all incoming and outgoing mails. As per Bill of Quantity table mentioned in Vol1. Page 97. Point no 50 DLP solution is required for 50 servers only. Please clarify how DLP for Endpoint will be able to achieve MTA functionality. This might give undue advantage to OEM.	As per RFP
285	2	DCH/TR/5.05	114	The solution should support Email DLP deployment from any standard platform/OEM. All licenses required for the same should be included and management should be from the same centralized management platform.	Please change this clause to ""The solution should support Email DLP deployment from any standard platform/OEM. All licenses required for the same should be included " This clause restrict the participation and give undue advantage to one OEM	As per RFP
286	2	DCH/TR/5.06	114	The solution should be able to identify data leaked in the form unknown and known encrypted format like password protected word document. The solution should be able to identify malicious traffic pattern generated by Malware infected PC in order to prevent future data leakage by the malware. The solution should support quarantine as an action for email policy violations and should allow the sender's manager to review the mail and provide permissions for him to release the mail without logging into the UI.	Please change the clause to ""The solution should be able to identify data leaked in the form unknown and known encrypted format like password protected word document. The solution should be able to identify malicious traffic pattern generated by Malware infected PC in order to prevent future data leakage by the malware. " This clause restrict the participation and give undue advantage to one OEM	As per RFP
287	2	DCH/TR/5.07	114	The DLP Solution should natively monitor uploads as well as sharing of data from different assets connected outside the organization and capable of doing	Segmentation of duty should not have any relevance on the data uploads detection and hence needs to be removed, access control is not data loss protection.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				segmentation of duty (SoD) based information security with auto access control on data and information	The DLP Solution should natively monitor uploads as well as sharing of data from different assets connected outside the organization.	
288	2	DCH/TR/5.08	114	The DLP Solution should have capability to integrate with 3rd party Proxy solution for content inspection using ICAP channel or should have DLP engine on OEM provided Proxy itself.	Please remove this clause Proxy is outbound internet access control solution whereas DLP for Endpoint is installed on PC/Server. Both are two different solution and meet the different objective. If DLP is required at gateway level also, request to include the same in Web Security Technical specification mentioned in Vol2 page 115 onwards. This will give undue advantage to OEM	As Per RFP
289	2	DCH/TR/5.09	114	The solution should Provide "Cloud Storage Applications" group which monitor sensitive content accessed by these cloud storage application on the endpoint and prevent sensitive data from uploading to the cloud. For Example (Should support from day 1(Windows 10 and MAC OSX 10.11) - Amazon Cloud Drive, Box, Drop box, Google Drive, Sky Drive, iCloud.	Please remove this clause As per data privacy regulation no data can be stored outside of country boundary. This is not relevant and hence requesting removal	As per RFP
290	2	DCH/TR/6.11	115	The solution should be able to do full binary fingerprint of files / DNA mapping and also should be able to detect even if partial information gets leaks from fingerprinted files or folders by DNA mapping. It should be able to monitor and prevent APT using auto policies management.	DNA mapping is not sure what it means. It should be fingerprinting or hashing.

The solution should be able to do full binary fingerprint of files and also should be able to detect even if partial information gets leaks from fingerprinted files | As per RFP |
| 291 | 2 | DCH/TR/7.01 | 117 | CPU / Form Factor: Intel CPU x86 of 8 Core or better with Blade/ rack format with Intel CPU | Please clarify if Rack format server is also allowed or only Blade format server has to be quoted | MSI may provide Rack or Blade format |

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					This clause specifies "Blade / rack" while there is separate Blade Chassis section which will not apply in case of "Rack" format servers	server as per design requirement
292	2	DCH/TR/7.02	118	No. of CPUs required currently: Min 8 cores using minimum 2 processor sockets, upgradable upto 2 when required	Please delete "upgradable upto 2 when required" Please delete "upgradable upto 2 when required" since 2 processors are being specified as required basic configuration	Please refer to the Corrigendum
293	2	DCH/TR/7.02	118	Min 8 cores using minimum 2 processor sockets, upgradable upto 2 when required	Min 8 cores using minimum 2 processor sockets This is contradicting point with the specification mentioned on point #DCH/TR/7.20. Also, request to confirm which specs MSI shall follow.	Please refer to the Corrigendum
294	2	DCH/TR/7.04	118	Controller for this devices: SAS/SCSI/SSD	Please amend to "Controller for this devices: SAS" SCSI is end-of-life & SSD is a disk format (solid state disk) and hence not relevant	As per RFP
295	2	DCH/TR/7.07	118	Ethernet: 4 x 10 Gbps ports or batter and more as per network design	Ethernet / Converged: 4 x 10 Gbps ports or better and more as per network design. Server shall be populated with all internal I/O slots for higher Bandwidth. Many Blade vendors offers converged solution rather than providing separate Ethernet & FC adapters. Also, request to populate with all Internal I/O slots to higher bandwidth.	As per RFP
296	2	DCH/TR/7.08	118	Management console Port: Should support remote management via 100 Base T port LAN access and web console access functionally	Management console Port: Should support remote management via minimum 100 Base T port LAN access and web console access functionally	Please refer to the Corrigendum

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					100 Base T is end-of-life. Hence either change to 1000 Base T or write "minimum" 100 Base T	
297	2	DCH/TR/7.08	118	Should support remote management via 100 Base T port LAN access and web console access functionally	Should support remote management and web console access functionality. Different Vendors offers remote management via different methodology. Solution should fulfil the required functionality. Kindly update.	Please refer to the Corrigendum
298	2	DCH/TR/7.10	118	Must support RAID controller for RAID 0, 1 or better configurations with 1GB Flash cache memory	Must support RAID controller for RAID 0, 1 or better configurations Blades server comes with maximum two internal drives which can only perform RAID 0 & 1 which is provided default with provided RAID card. Asking for cache will increase the RAID controller card providing no benefit to end customer.	As per RFP
299	2	DCH/TR/7.12	118	· Server should have LCD/LED indicators to identify System Health & failed components. · System management should be through dedicated hardware port based or software based and should not use the adapters provided for the application access	Server should have LCD/LED indicators to identify System Health & failed components. System management should be through dedicated hardware port based or software based. Different Vendors offers their server management via different methodology. Solution should fulfil the required functionality. Kindly update.	As per RFP
300	2	DCH/TR/7.20	119	CPU: · Latest Generation x86-64 Bit Minimum 2.20 GHz with min. 10 Core and 16MB Cache or more. Processor should be from latest announced series	There are two specification for processors, one at DCH/TR/7.01 & other at DCH/TR/7.20. Please clarify which one has to be followed	Please refer to the Corrigendum

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				· Offered Server should be configured with at least 2 Processors		
301	2	DCH/TR/7.20	119	CPU: · Latest Generation x86-64 Bit Minimum 2.20 GHz with min. 10 Core and 16MB Cache or more. Processor should be from latest announced series · Offered Server should be configured with at least 2 Processors	Clarification requested Which specification should be followed since two blade server specifications are mentioned.	Please refer to the Corrigendum
302	2	DCH/TR/7.22	119	Memory Protection: Advanced ECC with multi-bit error protection, Online spare/ memory mirroring	Please amend to: "Supported" Memory Protection: Advanced ECC with multi-bit error protection, Online spare/ memory mirroring Advanced ECC with multi-bit error protection is included by default in an Intel server with Intel chipset. Even "Online spare" / "memory mirroring" features are included but only one can be implemented at a time (like a RAID controller can support RAID 5 & RAID 6 but only one of these RAID types can be configured at a time though you may change to the other in future, if required).	As per RFP
303	2	DCH/TR/7.24	119	Storage Controller: 12Gb/s SAS Raid Controller with RAID 0, 1 or better and shall have at least 1GB flash backed write cache.	Storage Controller: 12Gb/s SAS Raid Controller with RAID 0,1 or better Blades server comes with maximum two internal drives which can only perform RAID 0 & 1 which is provided default with provided RAID card. Asking for cache will increase the RAID controller card providing no benefit to end customer.	As per RFP
304	2	DCH/TR/7.26	119	Server Connectivity to SAN: Should be capable of supporting 16 Gbps Dual port Fiber Channel HBA internal to the Server.	Server Connectivity to SAN: Should provide 16 Gbps Dual port Fiber Channel HBA internal to the Server or through converged	Please refer to the Corrigendum

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					adapter. Many Blade vendors offers converged solution rather than providing separate Ethernet & FC adapters. Request to allow.	
305	2	DCH/TR/7.27	119	Bus Slots: Minimum of 2 Nos of x16 PCIe 3.0 based mezzanine slots supporting Converged Ethernet/Ethernet/ FC adapters/SAS adaptors with extra availability	Bus Slots: Minimum of 2 Nos of x16 PCIe 3.0 based mezzanine slots supporting Converged /Ethernet/ FC adapters/SAS adaptors Blade servers typically comes with 2 PCI-e slots and does not offer any PCI slot as extra availability. Request to relax this point for wider participation.	Please refer to the Corrigendum
306	2	DCH/TR/7.29	119	OS Support : Microsoft Windows Server Redhat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) VMware	Kindly confirm whether open source operating system can be used	As per RFP
307	2	DCH/TR/8.03	120	RACK-U & Backplane: Should support up to 10U chassis. Redundant active backplane or passive backplane. Overall, it must ensure high availability all the time	Please amend to: RACK-U & Backplane: Should support up to 10U chassis. Redundant active backplane or passive backplane OR no backplane. Overall, it must ensure high availability all the time For Ethernet & converged switching, Dell has architected no-backplane design in the current generation Blade Chassis technology. This allows for support for longer future generation technologies (like network speeds). This ensures providing high availability all the time	Please refer to the Corrigendum
308	2	DCH/TR/8.04	120	Must be configured for redundant power supplies, fans. Necessary PDUs to be provided. Power supplies, fans should be capable of reconfigure without manual intervention	Must be configured for redundant power supplies, fans. Power supplies, fans should be capable of reconfigure without manual intervention PDU's are provided by the Rack vendor	Please refer to the Corrigendum

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					where the Blade chassis are populated. Kindly update the specs.	
309	2	DCH/TR/8.05	120	Network Connectivity: Should have support on enterprise L3 features supporting SDN, FC, FCOE, DCB & Scalable to support 40G when required	Please delete "FC" i.e. please amend to: Network Connectivity: Should have support on enterprise L3 features supporting SDN, FCOE, DCB & Scalable to support 40G when required As per DCH/TR/8.07, the RFP specifies dedicated separate FC switches. Hence the "FC" feature specified in this clause (DCH/TR/8.05) may not be used at all. But if retained, it will increase cost of switch with no gain.	Please refer to the Corrigendum
310	2	DCH/TR/8.05	120	Should have redundant 10Gbps L2/L3 Ethernet switching to connect all the blades to the LAN and should be configured to minimize the no. of ports in the external	Solution should have redundant 10Gbps L2/L3 Ethernet or Converged switching to connect all the blades to the LAN and should be configured to minimize the no. of ports in the external switch. Many Blade vendors offers converged solution rather than providing separate Ethernet & FC adapters. Request to allow.	Please refer to the Corrigendum
311	2	DCH/TR/8.05	120	Should be minimum 2*10 Gbps uplink ports & 1G x 2 Ports from each 10Gbps switch to external LAN connectivity.	Solution Should provide minimum 4*10 Gbps uplink ports from each 10Gbps switch to external LAN connectivity. 22Gbps bandwidth for uplink is very less, minimum 40Gb bandwidth shall be provided.	As per RFP MSI may provide equivalent or better solution to meet the RFP requirements
312	2	DCH/TR/8.05	120	Shall be capable of increasing the number of NICs per connection without adding extra Blade I/O modules, and reducing cabling uplinks to the data centre network	Request authority to delete this clause as no. of blade I/O modules in chassis are directly proportional to no. of NIC's configured in each blade server. Any server OEM can easily provide 40Gbps network	Please refer to the Corrigendum

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					bandwidth per server with a single Ethernet 20Gb 2-port adapter.	
313	2	DCH/TR/8.05	120	Should have support on enterprise L3 features supporting SDN,FC, FCOE,DCB & Scalable to support 40G when required	Should have support on enterprise L2 / L3 features supporting 40G when required Blade chassis or solution does not require L3 functionality since Blade solution connects with External Leaf or Access switch which are typically L3 enabled switches hence all desired functionalities can be achieved from the same.	Please refer to the Corrigendum
314	2	DCH/TR/8.05	120	Shall be capable of providing 10x10Gbps uplinks to connect to other Standard Data Centre Ethernet switches	Solution shall be capable of providing 10x10Gbps uplinks to connect to other Standard Data Centre Ethernet switches Many Blade vendors offers converged solution where redundant switch segregates LAN & FC traffic.	As per RFP MSI may provide equivalent or better solution to meet the RFP requirements
315	2	DCH/TR/8.06	120	Should be configured with redundant hot pluggable management module to manage the blades using GUI	Blade solution should be configured with redundant management module to manage the blades using GUI Different vendors has different architecture where Management module sits outside the chassis and inside intelligent switch provided as a part of Blade solution. Since this is a separate switch it can't be hot swappable.	Please refer to the Corrigendum
316	2	DCH/TR/8.06	120	Each NIC shall be capable of tailoring the network bandwidth with their own dedicated, bandwidth per 10Gb downlink connection.	Each Blade NIC shall be capable of tailoring the network bandwidth with their own 10Gb connection.	As per RFP
317	2	DCH/TR/8.06	120	Min. 2 or more Physical/logical LAN ports for Virtualization	Request to remove this point Not all Blade solutions provide any physical ports/ Logical LAN ports for virtualization. Port virtualization happens at the Blade	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					server level. Kindly change the specifications.	
318	2	DCH/TR/8.07	120	Should provide Redundant fibre switches with minimum 16 ports each to connect server to external SAN switch	Blade solution should provide Redundant fibre or converged switches providing minimum 6* 16Gbps FC ports each to connect server to external SAN switch Request to allow vendor to offer their converged solution. Also, current specs does not clarifies the bandwidth per port. Kindly update.	Please refer to the Corrigendum
319	2	DCH/TR/8.07	120	Should provide Redundant fibre switches with minimum 16 ports each to connect server to external SAN switch	Request authority to update the clause to "Should provide Redundant fibre switches with minimum 12 ports each to connect chassis to external SAN switch". This clause is proprietary to single vendor and majority of leading vendors have max. 12 ports for uplink connectivity per chassis interconnect.	Please refer to the Corrigendum
320	2	DCH/TR/9.01	121	Architecture · The Switch should support non-blocking Layer 2 switching and Layer 3 routing · There switch should not have any single point of failure like CPU, switching fabric, support module, power supplies and fans etc. should have 1:1/N+1 level of redundancy. · Switch support on line hot insertion and removal of different parts like modules/power supplies/fan tray should not require switch reboot and disrupt the functionality of the system · Switch should support the complete STACK of IP V4 and IP V6 services · Switch and different modules used should function in line rate and should not	We would like to bring in your notice that globally chassis based deployment are declining due to upfront capex and opex requirements. Considering the same, CLOS based architecture is preferred. We request you to consider CLOS based core switch which will be more cost effective, scalable and more robust. Kindly amend the clause as "There switch should not have any single point of failure like CPU, switching fabric, support module, power supplies and fans etc. should have 1:1/N+1 level of redundancy or CLOS based architecture." Kindly confirm.	As per RFP MSI may design the solution to meet the RFP requirements

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				have any port with oversubscription ratio applied		
321	2	DCH/TR/9.02	121	Port / Module Requirement · Need to have 48 X 1G/10G Ports populated with following interfaces. • 12 x 1 G SFP; 12 RJ45 SFP & 18 Port SFP+ • 6 X 40GBE QSFP Fiber interface (Two wire Multi Mode/LC/ Two wire single mode- LC Fiber interface using OM4 minimum distance of 150 mtr)	Remove Below: Need to have 48 X 1G/10G Ports populated with following interfaces. Single mode Vendors have different types and combinations of line cards, also the Single mode creates confusion in selection of transceivers as already multimode also mentioned.	As per RFP
322	2	DCH/TR/9.02	121	6 X 40GBE QSFP Fiber interface (Two wire Multi Mode/LC/ Two wire single mode- LC Fiber interface using OM4 minimum distance of 150 mtr)	4 X 40GBE QSFP Fiber interface (Two wire Multi Mode/LC/ Two wire single mode- LC Fiber interface using OM4 minimum distance of 150 mtr) Request to reduce the number of interface to 4 instead of 6 as one of the later clauses already asks for all the links to be configured in redundant mode and hence , the total number of 40G interface will anyway be 8	As per RFP
323	2	DCH/TR/9.03	121	Switch should support Min. 12,000 IPv4/IPv6 routes entries in routing table and should support at least 4,000 multicast routes or more	Switch should support Min. 12,000 IPv4/IPv6 routes entries in routing table and should support at least 8,000 multicast routes or more The number of multicast routes is very less in a network where the most of the applications like Video and IP camera feeds would be multicast based. Hence, we strongly believe that the number of multicast routes should be increased so that it does not become a bottleneck in the network.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
324	2	DCH/TR/9.03	121	· Switch should support up to 2.4 TBps of switching capacity including the services:	· Switch should support up to 12 TBps of switching capacity including the services: The overall capacity being asked for in the RFP is very low for a core switch which is expected to have multiple 10G and 40G links and is also expected to scale to 100G in the future. Keeping the overall throughput low will allow the bidders to quote low priced and deteriorated models which will be an issue in the future as it will not be able to meet the scalability requirement on the same hardware.	As per RFP
325	2	DCH/TR/9.03	121	Switch should support minimum 100 VRF instances or better	Switch should support minimum 512 VRF instances or better Pls increase the number of VRF support per CORE switch to at least 512 to ensure that there is no scalability issue in the device and the same switch model should be able to accommodate the future scale requirement without needing to change or upgrade the box	As per RFP
326	2	DCH/TR/9.04	121	Switch should support Python, NetConf, XML, Bash like services but not limited to.	Switch should support Python/NetConf/XML/ Bash like services Please rephrase the clause for more OEM participation	As per RFP
327	2	DCH/TR/9.10	123	Scalability ·The Switch should support 1/10/40 G Scalable to 100G for future Scalability · The Switch should have minimum 4 Slots for future scalability. All the links configured should be in redundant configuration on two different cards in different slots	Considering the CLOS based architecture, the capacity requirements can be suitably met by requisite hardware/ switch. In this context, the clause is required to be amend as "The Switch should have minimum 4 Slots for future scalability. All the links configured should be in redundant configuration on two different cards in	As per RFP MSI may design the solution to meet the RFP requirements

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					different slots or should support 25% empty interface to support future scalability". Kindly confirm.	
328	2	DCH/TR/9.03	121	Performance Requirement · Switch should support Min. 12,000 IPv4/IPv6 routes entries in routing table and should support at least 4,000 multicast routes or more · Switch should support Graceful Restart for OSPF, BGP etc. · Switch should support minimum 100 VRF instances or better · Switch should support up to 2.4 TBps of switching capacity including the services: • Switching • IP Routing (Static/Dynamic) • IP Forwarding • Policy Based Routing • QoS • ACL and Other IP Services • IP V.6 host and IP V.6 routing	Change Below: · Switch should support up to 8 TBps of switching capacity including the services: request to change this, as the switch should be scalable to 40G and 100G ports, then the switch capacity should be more, this will ease up scaling the port speeds for future.	As per RFP
329	2	DCH/TR/9.05	121	Layer3 Features · Switch should support all physical ports to use either in Layer2 or Layer 3 mode and also should support layer 3 VLAN Interface and Loopback port Interface · Switch should support static and dynamic routing using: • Static routing • OSPF V.2 using MD5 Authentication • ISIS using MD5 Authentication • BGP V.4 using MD5 Authentication • Should support route redistribution between these protocols · Switch should recon verge all dynamic routing protocol at the time of routing	Remove Below: VRF Edge routing and should support VRF Route leaking functionality Switch should support Multicast routing of minimum 8 way Equal Cost Multi Path load splitting .However, the MSI shall do the required hard ware sizing VRF Edge routing and route leaking is terminology of one vendor, please remove or change to route import and export.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				update changes i.e. Non-Stop forwarding for fast re-convergence of routing protocols · Switch should connecting multiple MPLS service provider using multi instance routing using VRF, VRF Edge routing and should support VRF Route leaking functionality · Switch should be capable to work as DHCP server and relay · Switch should provide multicast traffic reachable using: • PIM-SM • PIM-SSM • IGMP V.1, V.2 and V.3 · Switch should support Multicast routing of minimum 8 way Equal Cost Multi Path load splitting .However, the MSI shall do the required hard ware sizing		
330	2	DCH/TR/9.07	122	Switch should support for stringent security policies based on time of day of Layer-2 to Layer-4	Switch should support Time based security policies. Please rephrase the clause for more OEM participation.	Please refer to the Corrigendum
331	2	DCH/TR/9.10	123	The Switch should support 1/10/40 G Scalable to 100G for future Scalability	Request the clarity on 100G requirement. Server and edge connectivity will be on 10G and 40G option is there for scalability for backbone requirement. So keeping 100G option will unnecessary increase the solution cost, requesting to remove 100G support.	As per RFP
332	2	DCH/TR/9.10	123	Scalability · The Switch should support 1/10/40 G Scalable to 100G for future Scalability · The Switch should have minimum 4 Slots for future scalability. All the links configured should be in redundant	Scalability · The Switch should support 1/10/40 G optional scalable to 100G for future Scalability · The Switch should have minimum 4 Slots or able to Stack for future scalability. All the links configured should be in redundant configuration on two	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				configuration on two different cards in different slots	different cards in different slots Justification: This is vendor neutral which should be with fixed or chassis switch	
333	2	DCH/TR/10.01	123	Architecture: · Should support a minimum of 48 nos. 10/100/1000 Ethernet Ports · Should support a minimum of 4*10G SFP+ Uplinks · Should support 1G/10G trans receivers	We request you to kindly amend the clause as "Should support 1G/10G MSA compliant transceivers". This will ensure that the transceivers are interoperable within different OEMs and there are no bottlenecks and dependency on single OEMs. Kindly confirm.	As per RFP
334	2	DCH/TR/10.01	123	Should support a minimum of 4*10G SFP+ Uplinks	Should support a minimum of 2*10G SFP+ Uplinks

Looking at the overall architecture, the access switches will connect to the CORE switches and 2 uplink interfaces will be sufficient to alter to the requirement. Asking for 4 *10G interface will be an overkill. | As per RFP |
| 335 | 2 | DCH/TR/10.02 | 123 | Performance and Scalability · Should support Forwarding bandwidth of Min 100 Gbps · Should support Full-duplex Switching bandwidth of Min 200 Gbps · Should support 64-Byte Packet Forwarding Rate of Min 100 Mbps · Should support multi Core CPU · Should support minimum 128 MB of Flash memory · Should support minimum of 512 MB of DRAM · Should support 1000 Active VLANs · Should support Jumbo frames of 9K bytes · Should support up optimum number of Unicast MAC addresses and stacking | Remove below: Should support Forwarding bandwidth of Min 100 Gbps · Should support Full-duplex Switching bandwidth of Min 200 Gbps · Should support 64-Byte Packet Forwarding Rate of Min 100 Mbps · Should support minimum 128 MB of Flash memory · Should support minimum of 512 MB of DRAM

Add Below: Should support switching capacity of Min 226 Gbps Should support minimum 2GB of Flash Memory Should support minimum of 2GB of DRAM | As per RFP |

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					((48 (1G) + 4 (10G) + 2(40)) x 2 (FD)) =256Gbps of switching performance. This for 48 1Gbps, 4x10Gbps and 2x40gbps (stack/VC). Suggest to change the RAM and Flash to accommodate more logs on the switch for better troubleshooting.	
336	2	DCH/TR/10.03	124	Stacking · Should enable all switches to function as a single virtual switch · Should support Stacking functionality min 70 GBPS up to 6 switch · Should be Hot-swappable · Should support single IP address management for the group of switches · Switch proposed shall be compatible with any future upgradations/Models for the next 5 years minimum post go live	We understand dedicated stacking bandwidth is required to support the stacking functionality. In order to have no bottlenecks in terms of capacity to support stack capability, we request to consider minimum 100Gbps stack ports. Kindly add the clause "Should support stacking bandwidth of minimum 400Gbps". Kindly confirm.	As per RFP
337	2	DCH/TR/10.03	124	Stacking · Should enable all switches to function as a single virtual switch · Should support Stacking functionality min 70 GBPS up to 6 switch • Should be Hot-swappable • Should support single IP address management for the group of switches • Switch proposed shall be compatible with any future upgradations/Models for the next 5 years minimum post go live	Remove Below: · Should support Stacking functionality min 70 GBPS up to 6 switch Add Below: · Should support Stacking functionality min 80 GBPS up to 8 switch More stacking bandwidth is better throughput. Suggest to change the stack bandwidth to 80Gbps. Suggest to change the no of switches in stack to 8, as this will provide future scale.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
338	2	DCH/TR/10.04	124	Poe & PoE+ · Should support PoE (IEEE 802.3af) and 802.3at standards · Should support flexible power allocation across all ports, Min or Maximum · Should support 24 ports up to 15W POE and 30W POE+ · Should support reporting of actual PoE drawn per port	We would like to bring in your notice that it is extremely critical to have PoE power configurable capability in the switch. In line to same, the clause to be amended suitably as "Should support PoE power regulation per port, reporting of actual PoE drawn per port". Kindly confirm.	As per RFP
339	2	DCH/TR/10.04	124	PoE & PoE+ • Should support PoE (IEEE 802.3af) and 802.3at standards • Should support flexible power allocation across all ports, Min or Maximum • Should support 24 ports up to 15W POE and 30W POE+ • Should support reporting of actual PoE drawn per port	Remove below: • Should support 24 ports up to 15W POE and 30W POE+ · Should support reporting of actual PoE drawn per port Add Below: · Should support 24 ports up to 30W POE+ power and 48 ports upto 15W POE Power. POE+ power required for future POE powered devices, ex. WLAN AP, IP-CCTV and other devices. Suggest to go for 30W/15W for 24/48 ports.	As per RFP
340	2	DCH/TR/10.05	124	Power Supply: Should support an auto-ranging power supply for min power consumption and internal redundant Power supply	We understand the redundant power supply asked here is field replaceable. In line to same to bring more clarity the clause to be amended as "Should support an auto-ranging power supply for min power consumption and internal field replaceable power supply". Kindly confirm.	As per RFP
341	2	DCH/TR/11.13	125	All 96 x FC ports for device connectivity should be 4/8/16 Gbps auto-sensing Fibre Channel ports.	All 96 x FC ports for device connectivity should be 4/8/16 Gbps auto-sensing Fibre Channel ports. Same switch shall also	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					support 32Gbps Ports for future upgradability. 32Gbps switches are already launched an slowly entire industry will move of this speed. Request to update the specifications for MSI's to quote the latest generation switch.	
342	2	DCH/TR/12.03	125	Support de-duplication at source and at target (disk) on any commodity storage volume. Based on policy backup software should be able to move data to a tape library automatically	Proposed solution should support global and inline data duplication using automated variable block length deduplication technology in integration with Purpose Built Backup Appliance. As per RFP backup target would be on tape whereas de-duplication can done on disk appliance. Hence request you to either remove this clause or should consider the disk appliance as suggested.	Please refer to the Corrigendum
343	2	DCH/TR/12.06	125	Should be able to backup any applications in online mode through online backup agents irrespective of the number of servers / CPUs, configuration of the servers , etc.	The backup solution should also support online LAN Free SAN based backups of databases through appropriate agents; Important Applications being Oracle, Microsoft SQL Server, Exchange, SharePoint, IBM DB2 UDB, Informix, Lotus Notes/Domino, MySQL, SAP, SAP HANA & Sybase irrespective of the number of servers / CPUs, configuration of the servers , etc. We request department to define the widely used database as per current workload so that support for the same can provided/ensured. Hence please incorporate the suggested change.	Please refer to the Corrigendum
344	2	DCH/TR/12.10	125	Should have the ability to integrate with archival software and create a single	Should be removed.	MSI may choose tape or

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				repository for backup and archive for space efficiency and easier data management.	As per RFP backup target would be on tape whereas to maintain the single repository for both archival and backup, it should be on disk backup appliance. So request you to either delete this clause or add the disk appliance specs as suggested.	disc, as per design
345	2	DCH/TR/13.01	126	Should support hardware fail open cards for critical interfaces and appliances level NGFW appliance should have inbuilt storage of 250 GB or more SSD / HDD. 8 x 10/100/1000 Base-T Copper Ports, 4 x 10G SFP ports from day 1 and support for addition of 2 x 40G SFP ports. Dedicated Management and Sync Ports	Solution for the fail open cards is required if the solution is deployed in the IPS or on bridge mode. High Availability is already considered for the NGFW. Inbuilt storage of the SSD and HDD also varies and minimum required as logs will be stored to the central server.

Should support High Availability or hardware fail open cards for critical interfaces. NGFW appliance should have inbuilt storage of 400 GB SSD / HDD. 8 x 10/100/1000Base-T Copper Ports, 4 x 10 GB 10G SFP ports from day 1 and support for addition of 2 x 40G SFP ports. Management and Sync Ports | As per RFP |
| 346 | 2 | DCH/TR/13.01 | 126 | NGFW appliance should have inbuilt storage of 250 GB or more SSD / HDD. 8 x 10/100/1000 Base-T Copper Ports, 4 x 10G SFP ports from day 1 and support for addition of 2 x 40G SFP ports. Dedicated Management and Sync Ports | Should have 2 expansion slots and should have minimum 6 x 10/100/1000BaseT ports and 4 x 1G SFP ports. The router should also have support for 2 X10G ports for future scalability.

Please rephrase the clause as the same configuration can be provided in a fixed form factor device as well. Moreover, pls also consider to include at 2 X10G interfaces for future expansion so that if the requirement increases in the future, the 10G interfaces can be added with al required accessories (like modules, license | As per RFP |

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					etc.) without changing the physical hardware	
347	2	DCH/TR/13.01	126	Should be based on multi core processors and not on proprietary hardware platforms like ASICs, Should have minimum 16 GB memory with option of upgradable to 64 GB or more. Hardware should have field upgradable capabilities for upgrading components like network cards, RAM, power supplies, fan etc.	Solution will be provided with the throughput and the connections mentioned, RAM will be fixed or upgradable that needs to be neutralized as it depends on multiple variants of appliances. Justification: Should be based on multi core processors or proprietary hardware platforms like ASICs, Should have minimum 16 GB memory. Hardware should have field upgradable capabilities for upgrading components like network cards etc.	As per RFP
348	2	DCH/TR/13.01	126	Should be based on multi core processors and not on proprietary hardware platforms like ASICs, Should have minimum 16 GB memory with option of upgradable to 64 GB or more. Hardware should have field upgradable capabilities for upgrading components like network cards, RAM, power supplies, fan etc.	Please change the clause to "Should be based on multi core processors and not on proprietary hardware platforms like ASICs, Should have minimum 16 GB memory with option of either upgradable up to 192 GB or included day one. Hardware should have field upgradable capabilities for upgrading components like power supplies, fan etc.

To upgrade a RAM MSI has to open the appliance which could introduce static charge and spoil platform. Hence all field maintenance should be done externally like replacing Power Supply or FAN which doesn't require opening appliance. Hence requesting change | As per RFP |
| 349 | 2 | DCH/TR/13.01 | 126 | Should have minimum 40 Gbps throughput, and should be able to handle all peak loads. Throughput capacity of VPN should not be less than 15 Gbps | Please change the clause to "Should have minimum 40Gbps throughput. Throughput capacity of VPN should not be less than 5 Gbps"

As per Section "Network Connectivity on Lease" Vol2 page 194, external gateway | As per RFP |

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					internet services to be provisioned considering 30,000 concurrent users. 70 Gbps of firewall throughput is way high and would unnecessarily increase the overall cost of solution. Hence request to change the throughput to reasonable value along with IPS functionality running together.	
350	2	DCH/TR/13.01	126	General · Should be a purpose built appliance based solution with integrated functions like Firewall, VPN and User awareness. The product licensing should be device based and not user/IP based (should support unlimited users except for VPN). The hardware platform & Firewall with integrated SSL/IPsec. · Should have minimum 70Gbps throughput. Throughput capacity of VPN under test conditions should not be less than 15 Gbps. · Should support Max 2,50,00,000 concurrent sessions for data. · Should support at least 1,80,000 connections per second. · Should be based on multi core processors and not on proprietary hardware platforms like ASICs, Should have minimum 16 GB memory with option of upgradable up to 32 GB. Hardware should have field upgradable capabilities for upgrading components like network cards, RAM, power supplies, fan etc. · Solution should have following deployment modes mandatory: a) L3 Mode, b) L2/Transparent Mode. · Should be deployed in High Availability.	Request to add the following: 1) The OEM must demonstrate security effectiveness over the years and must have at least 99% exploit block rate as per NSS Labs SVM in last 3 years for Next Generation Firewall. Justification: Security effectiveness in last 3 years ensures the capability of the solution to block the current threats and reveals the capability and focus of the OEM in terms of research and development for ever increasing cyber threat landscape.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				· Should support hardware fail open cards for critical interfaces. NGFW appliance should have inbuilt storage of 900 GB SSD / HDD. 8 x 10/100/1000Base-T Copper Ports, 4 x 10 GB 10G SFP ports from day 1 and support for addition of 2 x 40G SFP ports. Dedicated Management and Sync Ports		
351	2	DCH/TR/13.03	126	Support by the security gateway and VPN module: tokens (i.e. -Secure ID), TACACS, RADIUS and digital certificates. Should support Ethernet Bonding functionality for Full Mesh deployment architecture.	Please change the clause to "Solution should support by the security gateway and VPN module or dedicated solution: tokens (i.e. -Secure ID) / TACACS/TACACS+, RADIUS and digital certificates". Please confirm whether MSI can design solution as per their architecture Different MSI might like to architect solution different and hence should have flexibility to include VPN internally or externally	Please refer to the Corrigendum
352	2	DCH/TR/13.04	127	Solution shall support configuration of dual stack gateway on a bond interface or on a sub-interface of a bond interface. Solution should Support 6 to 4 NAT, or 6 to 4 tunnel.	Solution should Support 6 to 4 NAT, or 6 to 4 tunnel, this point should be removed since it is part of CGN solution not Firewall Solution shall support configuration of dual stack gateway on a bond interface or on a sub-interface of a bond interface. Solution should Support 6 to 6 NAT, or 4 to 4 tunnel.	As per RFP
353	2	DCH/TR/13.05	127	Should include static analysis technologies like antivirus, anti-malware/anti bot however in an integrate mode with the solution.	Please change the clause to "Should include static analysis technologies like antivirus or anti-malware/anti bot however in an integrate mode with the solution." Please confirm whether MSI has flexibility to design their solution. Please confirm whether zero-day/unknown threat to be protected from day one Different OEM use different mechanism to	As per RFP

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					protect organization against zero-day attack. Few uses Anti-Virus while other uses Anti-Malware. Hence requesting change.	
354	2	DCH/TR/13.06	127	Solution should have an ability to remove all the active content, macros, block the malicious contents while sending document to the end user as clean document.	This point is specific to the CDR solution specific to the OEM and hence needs to be removed. Solution like Web Security already proposed in the details will be able to capture and provide protection on the same.	As per RFP
355	2	DCH/TR/13.06	127	Solution should have an ability to remove all the active content, macros, block the malicious contents while sending document to the end user as clean document.	Please remove this clause This clause restrict the participation and give undue advantage to one OEM	As per RFP
356	2	DCH/TR/13.06	127	Solution should be able to provide with Forensic tools which give details like Infected Users/Device, Malware type, Malware action etc.	This the Endpoint based solution not the NGFW, specific to OEM. EDR solution will able to capture all forensics, AV solution is also there to detect any block and hence needs to be removed.	As per RFP
357	2	DCH/TR/13.06	127	Security · Should inspect the web sessions (HTTP and HTTPS both) to detect and notify the malicious web activity including malicious file downloads through the internet. Third Party/Separate appliance for SSL offloading will not be accepted. · The proposed solution should dynamically generate real-time malware intelligence for immediate local protection via integration with the separate Automated Management and Event Correlation System. · Solution should have an ability to	1) Request to add the following: The solution proposed should have the capability to identify and prevent unknown malware and zero-day threats. 2) The solution should have the feature of emulating such suspected attacks locally in a sandbox provide a verdict within an average of 3 minutes. The sandbox should be capable of providing a capacity of emulating 2000 unique files per hour. Justification: 1) The asked features does not cover the requirement of protections against the unknown malware and zero-day attacks which are prevailing in the cyber	As per RFP

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				remove all the active content and macros sending only a clean document to the end user. · Solution should be able to detect & prevent the Bot communication with ICC. · Solution should have n Multi-tier engine to detect & prevent Command and Control IP/URL and DNS. · Solution should be able to detect & prevent unique communication patterns used by BOTs i.e. Information about Botnet family. · Solution should be able to detect & prevent attack types i.e., such as spam sending click fraud or self-distribution, that are associated with Bots. · Solution should be able to block traffic between infected Host and Remote Operator and not to legitimate destination. · Solution should be able to provide with Forensic tools which give details like Infected Users/Device, Malware type, Malware action etc.	world and can launch targeted attacks. Since Smart City projects involves massive public interactions, it is recommended to ensure the protections against unknown threats. 2) The local sandbox ensures that any data or even the hash value of any such file which might be suspected would not leave the country to the OEM cloud to protect he data integrity policy of the organization.	
358	2	DCH/TR/13.07	128	The Log Viewer should have the ability view all of the security logs of all functions managed by the solution in one view pane (helpful when troubleshooting connectivity problem for one IP address)	Request to add the following: The log viewer should be integrated with the security management solution application / appliance. In case of software based solution, the logging solution must have at least 4 X 1 TB HDD in RAID 5 for storing logs. Justification: The hardware capacity for the logging solution was not mentioned in the RFP which may lead to confusion amongst the bidders and might not match the requirement of RSCL.	As per RFP

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359	2	Application Delivery Controller (ADC) and Web Application Firewall (WAF) with Link Load Balancer	128	New Clause Request	The device should support next generation features like Virtualization that can that virtualizes the Device resources—including CPU, memory, network, and acceleration resources to provide complete separate environment from applications and management perspective. Suggested Clause: Should be appliance based solution with purpose built hardware for high performance with ADC-VX/Virtualization feature that virtualizes the Device resources—including CPU, memory, network, and acceleration resources. Each virtual ADC instance contains a complete and separated environment of the Following: a) Resources, b) Configurations, c) Management d) OS The proposed device should support up to 60 Virtual Instances.	As per RFP
360	2	Application Delivery Controller (ADC) and Web Application Firewall (WAF) with Link Load Balancer	128	New Clause Request	Industry Standard Certification should be considered in order to have benchmark and get healthy competition among the Industry Technology Leaders. Pls note that Gartner Leader Quadrant qualifies 3 OEM's. for the ADC. Suggested Clause: OEM should be present in Gartner's	As per RFP

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					LEADER magic quadrant for ADC in the latest published report.	
361	2	DCH/TR/14.01	128	Hardware & Performance · Should provide integrated functionalities of server load balancer, DNS, SSL and WAF. · Should provide 8 x 10G ports and 4/6 x 40G QSFP+ ports · Should support minimum SSL TPS of 80k (RSA 2k keys) and minimum 48K (with ECDSA 256 key). · Should support minimum 10 Gbps hardware/software based Compression throughput · Should support minimum 20 Million L4 connection · Should have SSH,TELNET,CLI, Direct console, SNMP per cluster with in building reporting · Should support to third party function for other network	The device should support next generation features like Virtualization that can virtualizes the Device resources—including CPU, memory, network, and acceleration resources to provide complete separate environment from applications and management perspective. The performance figures wrt to SSL CPS should be inline with other capacity requirements mentioned in terms of throughput, L4 Connections etc, hence we request to amend this clause to ensure healthy competition. Suggested Clause: Hardware & Performance · Should provide integrated functionalities of server load balancer, DNS, SSL and WAF. · Should provide 8 x 10G ports and 4/6 x 40G QSFP+ ports · Should support minimum SSL TPS of 70k (RSA 2k keys) and minimum 40K (with ECDSA 256 key). · Should support minimum 10 Gbps hardware/software based Compression throughput · Should support minimum 20 Million L4 connection · Should have SSH,TELNET,CLI, Direct console, SNMP per cluster with inbuilding reporting · Virtualization that can virtualizes the Device resources—including CPU,	As per RFP

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					memory, network, and acceleration resources to provide complete separate environment from applications and management perspective with Support upto 60 Virtual Instance.	
362	2	DCH/TR/14.01	128	Should have SSH,TELNET,CLI, Direct console, SNMP per cluster with inbuilding reporting	Telnet is an insecure way to access the CLI of the device and hence not recommended to be used by Security Practitioner as it risks entire network security, Alternatively, SSH is a more secure way of accessing the device CLI since it encrypts the username and password. Request you to change the clause to: " Should have SSH, CLI, Direct console, SNMP per cluster with inbuilding reporting"	As per RFP
363	2	DCH/TR/14.01	128	Should support to third party function for other network	This clause gives UNDUE advantage to a single OEM. Running third party network functions on general purpose VMs risk security of entire appliance and should not be allowed. If department is ready to risk security of appliance and network, it can be allowed. Request you to change the clause to" Should support multiple network functions like WAF, DDOS, SSL VPN etc. from same OEM and running on same OS.	As per RFP
364	2	DCH/TR/14.01	128	Should support minimum 10 Gbps hardware/software based Compression throughput	Software based compression uses system CPU and impacts the overall performance of appliance while HW based compression improves overall performance of appliance. Request you to change the clause to: "Should support minimum 40 Gbps SSL and hardware based Compression throughput"	As per RFP
365	2	DCH/TR/14.01	128	Should provide integrated functionalities of server load balancer, DNS, SSL and WAF.	With reference to DNS functionality, does it need to provide DNS Server and DNS	As per RFP

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					Firewall both, as both are required part of solution. Please confirm.	
366	2	DCH/TR/14.01	128	Should provide 8 x 10G ports and 4/6 x 40G QSFP+ ports	There should be equal number of 10G and 40G ports. We request you to amend this clause as "Should provide 8 x 10G ports and 8 x 40G QSFP+ ports"	As per RFP
367	2	DCH/TR/14.02	128	Should offer out of band programming for control plane along with data plane scripting for function like content inspection and traffic management	This clause is favourable to specific OEM. We request to amend same as "Should offer scripting for function like content inspection and traffic management"	As per RFP
368	2	DCH/TR/14.02	128	Should support centralized Security policies enforcement, SSL Certificates management for workloads on Private DC and public cloud authorized by Government of India	This clause is favourable to specific OEM. We request to amend as " Should support centralized Security policies enforcement for workloads on Private DC and public cloud authorized by Government of India"	As per RFP
369	2	DCH/TR/14.02	128	Should support File Upload Violation & scanning for malicious content in Uploads through ICAP/PBR integration	ICAP and PBR are two different features and don't provide equivalent functionality. PBR does not support "File Upload Violation & scanning for malicious content". Please change this clause as Should support File Upload Violation & scanning for malicious content in Uploads through ICAP integration"	As per RFP
370	2	DCH/TR/14.02	128	Should be able to perform TCP multiplexing and TCP optimization, SSL Offloading with SSL session mirroring / persistence mirroring /any other method to communicate by ADC and HA devices hardware based compression, caching etc. in active-passive mode. Should be able to load balance both TCP and UDP based applications from L2 to L7 including Websocket	SSL Session Mirroring and Persistence Mirroring are two different features - SSL Session mirroring allows SSL session to continue working while Persistence Mirroring ensures that Application Server is not changed during failover and applies to non SSL Sessions only. Please confirm, if you don't want SSL Session Mirroring across HA appliances? Alternatively, it should be changed to - Should be able to perform TCP multiplexing and TCP optimization, SSL Offloading with SSL session mirroring, persistence	As per RFP

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					mirroring /any other method to communicate by ADC and HA devices hardware based compression, caching etc. in active-passive mode. Should be able to load balance both TCP and UDP based applications from L2 to L7 including Web socket	
371	2	DCH/TR/14.03	129	Security · Should provide comprehensive security both at network and application level via WAF and SSL Virtual Private Network module on a single device. Should support File Upload/Download Violations and Leech Protection · Should support Page prefetch management and Server offline takeover · Geolocation IP address database to identify the source of the attack origin and IP Reputation Mechanism to identify the Blacklisted TOR Networks or Proxy IP address to Block the request immediately. · Should have both positive and negative security model with machine learning capabilities to detect and prevent vulnerabilities and anomalies in application traffic and unknown attacks. · Machine learning should be based on true ML algorithms, and not just automation of dynamically learnt rules. · New/updated modules of applications should be learnt dynamically, and WAF should also provide the option of deploying the rules learnt dynamically for these new modules without manual intervention. · WAF correlation should also identify complex attack chains, and not just	As per industry standards the SSL VPN is supposed to be a part of Firewall/UTM solutions. Hence we request to delete SSL VPN functionality. Also the challenge response mechanism should be advanced so it does not result into bad user experience, hence advance techniques like device fingerprinting which will identify the bots very precisely and blocks them should be considered. Leech protection is only related to cpanel. Instead broader term should be used such as Brute force Protection. Suggested Clause: Security · Should provide comprehensive security both at network and application level via WAF and SSL. · Should support File Upload/Download Violations and Leech Protection/Brute Force protection · Geolocation IP address database to identify the source of the attack origin and IP Reputation Mechanism to identify the Blacklisted TOR Networks or Proxy IP address to Block the request immediately. · Should have both positive and negative	As per RFP

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				aggregate events based on attacks or sources along with advanced BOT detection mechanism based on smart combination of signature-based and heuristic analysis · Should be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking. · Should support File Upload Violation & scanning for malicious content in Uploads through ICAP integration/any other standard integration · Should be stable and not affect service availability even upon any system fault · System should be able to encrypt the user credentials in real time ,any other sensitive parameter as defined by department to protect from key loggers and credential stealing malware residing in the end users system · Should support SSL offloading using both RSA and ECC based keys · Solution should be able to detect the presence of Remote Access Trojans (RATs) residing in the user's web browser. · Solution should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism · Able to defend against browser based key loggers that attempt to capture user's	security model with machine learning capabilities to detect and prevent vulnerabilities and anomalies in application traffic and unknown attacks. · Machine learning should be based on true ML algorithms, and not just automation of dynamically learnt rules. · New/updated modules of applications should be learnt dynamically, and WAF should also provide the option of deploying the rules learnt dynamically for these new modules without manual intervention. · WAF correlation should also identify complex attack chains, and not just aggregate events based on attacks or sources along with advanced BOT detection mechanism based on smart combination of signature-based and heuristic analysis · Should be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking. · Should support File Upload Violation & scanning for malicious content in Uploads through ICAP integration · Should support SSL offloading using both RSA and ECC based keys · Solution should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism/Fingerprinting · Solution should integrate with AD,	

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				key strokes and steal user credential · SSL VPN for remote user access and management with AD, LDAP, Radius and TACACS integration for authentication · Solution should integrate with AD, LDAP, Radius, TACACS with inbuilt OTP mechanism for 2 Factor Authentication	LDAP, Radius, TACACS with 2 Factor Authentication	
372	2	DCH/TR/14.03	129	System should be able to encrypt the user credentials in real time ,any other sensitive parameter as defined by department to protect from key loggers and credential stealing malware residing in the end users system	Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. This clause is favourable to specific OEM, so request you to delete this clause	As per RFP
373	2	DCH/TR/14.03	129	Able to defend against browser based key loggers that attempt to capture user's key strokes and steal user credential	Developers themselves implement form field obfuscation to achieve this goal, so more or less, if the site is built according to best practices, this is not useful. This clause is favourable to specific OEM, so request you to remove this clause	As per RFP
374	2	DCH/TR/14.03	129	Solution should be able to detect the presence of Remote Access Trojans (RATs) residing in the user's web browser.	It must be understood that WAF.js does understand any exploitation attempts executed on the browser side, for e.g, if a script is being executed at the browser level itself, WAF.js will understand that the DOM environment is being manipulated. This clause is favourable to specific OEM, hence request you to remove the clause	As per RFP
375	2	DCH/TR/14.03	129	Solution should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism	This clause is favourable to specific OEM. Please amend this clause as "Solution should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism/ Java scripts"	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
376	2	DCH/TR/15.02	130	Should provide a high performance architecture with comprehensive layered malware protection including Threat Intelligence, and Gateway Antivirus/Antimalware or both and advance sandboxing all from a single OEM and should not be a combination from different OEM's	Restricting it to single OEM can create security gap hence request this to be modified as "Should provide a high performance architecture with comprehensive layered malware protection including Threat Intelligence, and Gateway Antivirus/Antimalware or both and advance sandboxing all from a single OEM or combination from different OEM's"	As per RFP
377	2	DCH/TR/15.03	130	Should integrate with the proposed Advance Endpoint Protection solution along with the proposed Network IPS and Web Proxy solution in an automated manner.	This is limited OEM specification and would restrict it to one OEM for Network IPS and APT. Also Advanced Endpoint is not asked for. Central AV is being asked for in the RFP. Hence request this to be modified as "Should integrate with the proposed Central AV solution along with the solution in an automated manner"	Please refer to the Corrigendum
378	2	DCH/TR/15.03	130	Should integrate with the proposed Advance Endpoint Protection solution along with the proposed Network IPS and Web Proxy solution in an automated manner.	Please change the clause to "Should integrate with the proposed other security solution if possible. This clause would give undue advantage certain OEM and hence requesting change	Please refer to the Corrigendum
379	2	DCH/TR/15.06	130	Should provide broad Virtual Machine support: Sandbox analysis environment matches target and Analyze objects and executables with the applications on the following platforms: · Supports x32 and x64 Windows platforms · Supports Windows Server and Desktop OS · Supports custom image creation · Android The above functionality may be provided using multiple solutions as well	32 bit machines are not used now and server OS is restricted from executing any file and hence sandboxing is not required for 32 bit system and server OS. Hence requesting this point to be modified as "Should provide broad Virtual Machine support: Sandbox analysis environment matches target and Analyse objects and executables with the applications on the following platforms: · Supports x64 Windows platforms · Supports Desktop OS · Supports custom image creation · Android	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					The above functionality may be provided using multiple solutions as well	
380	2	DCH/TR/15.06	130	Should provide broad Virtual Machine support: Sandbox analysis environment matches target and Analyze objects and executables with the applications on the following platforms: · Supports x32 and x64 Windows platforms · Supports Windows Server and Desktop OS · Supports custom image creation · Android The above functionality may be provided using multiple solutions as well	Please change the clause to ""Should provide broad Virtual Machine support: Sandbox analysis environment matches target and Analyze objects and executables with the applications on the following platforms: · Supports x32 and x64 Windows platforms · Supports Windows Server or Desktop OS" Objective of Sandboxing is to perform static and dynamic analysis of malware in contained environment. Custom Imgare creation and Android are not common mechanism used by leading vendor and hence requesting change	As per RFP
381	2	DCH/TR/15.07	130	Should be enterprise wide scalable and with the ability to handle up to 10,000 objects per day / per appliance and to be upscaled as per the requirements.	Please change the clause to "Should be enterprise wide scalable and with the ability to handle up to 10,000 objects per day / per appliance or 1,000 unique files/day." For 30,000 concurrent users, 10,000 object / day is too high and hence requesting change. Also different OEM have different understanding about object and file type and hence requesting change	As per RFP
382	2	DCH/TR/15.09	130	Should support at least 10 multiple simultaneous VM images for target specific Sandboxing to identify malware.	Please change the clause to "Should support at least 50 multiple simultaneous VM images or more for target specific Sandboxing to identify malware" For sandbox to process so many files a day, it is required to have more VM running simultaneously and hence requesting change	As per RFP

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383	2	DCH/TR/15.25	131	Appliance should come with pre-installed images and licenses with the ability to upload gold image and analyze threats under conditions of actual host environment	Please remove this clause This is specific to OEM and hence requesting change	As per RFP
384	2	DCH/TR/15.25	131	Appliance should come with pre-installed images and licenses with the ability to upload gold image and analyze threats under conditions of actual host environment	Every customer has a different environment, therefore OS Versions and builds change customer to customer. Existing image used in customer's environment are needed for which it is already licensed, so no need of procuring more licensed OS images. Therefore, the point should be changed to " Appliance should have the ability to upload gold image and analyze threats under conditions of actual host environment"	As per RFP
385	2	DCH/TR/16.12	132	Multipath: Multi-path & Load balancing, MPXIO, IPMP, LACP protocol should be supported.	Kindly request to update this clause as "Multi-path & Load balancing, MPXIO protocol should be supported". IPMP and LACP are NAS protocols typically used for Solaris environment and not for smart city apps. Kindly remove these protocols so that leading storage OEM's can participate.	As per RFP
386	2	DCH/TR/17.03	133	Power · Should have DC Redundant power input · Power consumption max 15 W · POE/POE+ Budget: 120-240 watts. · Simultaneous 802.3at PoE+ support on all Copper Port	We understand the No PoE power load expected of the switch is capped to max 15W. Kindly confirm.	Please refer to the Corrigendum
387	2	DCH/TR/17.03	133	POE/POE+ Budget: 120-240 watts.	POE Budget – anything between the ranges of 120-240 watts. Please reduce the power budget to 170W which would be sufficient to cater to the POE requirements. Since the switch will have 8 POE/POE+ interface, the POE power requirement will never exceed 170W	As per RFP

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388	2	DCH/TR/17.03	133	Power consumption max 15 W	For 8 port PoE+ switch, mentioned power consumption value is not possible for any OEM. For fully PoE+ load the max power consumption of the switch would be 320Watt. Request to modify the clause.	As per RFP
389	2	DCH/TR/17.03	133	Simultaneous 802.3at PoE+ support on all Copper Port	Simultaneous 802.3at POE/PoE+ support on all Copper Port

Please rephrase the clause to ensure that the ports should ideally support either POE or POE+ as most of the devices would be POE based | Please refer to the Corrigendum |
| 390 | 2 | DCH/TR/17.04 | 133 | VLAN support (as per industry standard)
· Minimum 1024 active VLANS
· Dynamic VLAN with VTP / MVRP
· IP subnet VLAN
· 802.1v
· 802.1ad (q-in-q)
· Private VLAN | We would like to bring in your notice that "MVRP" was previously also known as GVRP. In line to same, we request you to amend the clause as "Dynamic VLAN with VTP/ GVRP/ MVRP". Kindly confirm. | Please refer to the Corrigendum |
| 391 | 2 | DCH/TR/17.04 | 133 | Dynamic VLAN with VTP / MVRP | VTP is Cisco proprietary protocol. Please consider Dynamic VLAN assignment with VTP/ GVRP / MVRP. | Please refer to the Corrigendum |
| 392 | 2 | DCH/TR/17.05 | 133 | DHCP Server ipv4 & ipv6, Client, Relay, Snooping , option 82/Relay, | DHCP Server will be configured in Core switch or central dedicated DHCP server to allocate the IP for all the end devices. It is not require at edge switch end. Please remove the same. | As per RFP |
| 393 | 2 | DCH/TR/17.05 | 133 | 802.1x support,MAC-based Authentication | 802.1x support, MAC-based Authentication, Macsec

Reason: Macsec is totally secure solution. | As per RFP |
| 394 | 2 | DCH/TR/17.06 | 133 | IGMP snooping - v1,v2,v3, MLD snooping , MVR | We can achieve the MVR functionality through IGMP snooping and PIM-SM. Request to consider MVR/PIM-SM. | As per RFP However, MSI can provide equivalent or better solution |

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						to meet the functional requirements of the RFP
395	2	DCH/TR/17.07	133	RADIUS (Authentication and Accounting), TACACs+ 3.0 , RMON I and II, DNS Server, Client and Proxy, Configurable LLDP-MED values	The DNS server feature is use for name to IP resolution and it is not require at edge switch. Request to consider the same.	Please refer to the Corrigendum
396	2	DCH/TR/17.07	133	Support for RFC 2544	Support for RFC 2544 or equivalent Reason: This RFC is OEM specific. Different O&M is used by different vendor, so that other OEM can also qualify	Please refer to the Corrigendum
397	2	DCH/TR/17.07	133	Support for RFC 2544	Request to remove RFC 2544. All the require factory test report will submit with product.	Please refer to the Corrigendum
398	2	DCH/TR/17.07	133	PoE management - Scheduling of Power Delivery, Power limit by device type and Power delivery prioritisation	PoE management - Power should be dynamically allocated based on requirement of device Reason: All the latest switches dynamically allocate power to the device. Manually allocation is quite old technology.	As per RFP
399	2	DCH/TR/17.07	133	Switch Port Analyzer per vlan	Remove this clause Reason: Current switches Dynamically provides pre-defined policy configuration to authenticated clients — VLAN, ACL, BW	As per RFP
400	2	DCH/TR/17.08	133	CISPR 22,24; ICES-003 Class A;EN 61000-4-2 Electro Static Discharge; EN 61000-4-3 Radiated RF; EN 61000-4-4 Electromagnetic Fast Transients;EN 61000-4-5 Surge; EN 61000-4-6 Conducted RF; EN 61000-4-8 Power Frequency Magnetic Field; EN 61000-4-9 Pulsed Magnetic Field	CISPR 22,24; ICES-003 Class A;EN 61000-4-2 Electro Static Discharge; EN 61000-4-3 Radiated RF; EN 61000-4-4 Electromagnetic Fast Transients;EN 61000-4-5 Surge; EN 61000-4-6 Conducted RF; EN 61000-4-8 Power Frequency Magnetic Field; EN 61000-4-9 Pulsed Magnetic Field Immunity; RoHS and WEEE compliant;	As per RFP

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				Immunity; RoHS and WEEE compliant; NEMA- TS2	NEMA- TS2 or equivalent Reason: This RFC is OEM specific. Equivalent certifications so that other OEM's can also qualify.	
401	2	DCH/TR/17.08	134	RoHS and WEEE compliant	RoHS OR WEEE compliant Please rephrase as all the OEMs do not pursue all similar type certifications	As per RFP
402	2	DCH/TR/17.08	133	Industry Certification · CISPR 22,24; ICES-003 Class A;EN 61000-4-2 Electro Static Discharge; EN 61000-4-3 Radiated RF; EN 61000-4-4 Electromagnetic Fast Transients;EN 61000-4-5 Surge; EN 61000-4-6 Conducted RF; EN 61000-4-8 Power Frequency Magnetic Field; EN 61000-4-9 Pulsed Magnetic Field Immunity; RoHS and WEEE compliant; NEMA- TS2	Have all the major certification except ICES-003 Class A and have CISPR 32 instead of 22, 24. Request to consider the same and allow us to participate.	As per RFP
403	2	DCH/TR/17.09	134	Operating Condition · Temperature and humidity as per city condition and requirement	We would like to bring it in your notice that mentioning the clear temperature and humidity requirements will help potential bidders to quote a quality product. The industry standard environment condition of for Industrial Grade switches are as below:- Operating temperature: -40 degC to +75 degC Storage temperature: -40 degC to +85 degC Operating Humidity: 0% to 95% non-condensing, including Coastal Environment. Please confirm.	As per RFP
404	2	DCH/TR/18.13	134	Metering for Input Voltage, Output Voltage and frequency, battery voltage, output current etc.	Output Current shall be excluded as not a standard parameter on LCD in all reputed OEMs	Please refer to the Corrigendum
405	2	DCH/TR/19.01	134	Server Load Balancer	Server Load Balancer is a sub functionality of ADC and is not required with modern	As per RFP

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					application architecture. Department could consider removing requirement of Server Load Balancer as it will not provide any benefit and will provide saving to department.	
406	2	DCH/TR/19.01	134	Should be high performance purpose built next generation multi-tenant hardware with multi-core CPU support. Platform should support multiple network functions including application load balancing, application firewall, SSL VPN & global server load balancing functions with dedicated hardware resources for each virtual instance.	Please confirm whether MSI is free to design SSL VPN solution as per their architecture SSL VPN has been asked in Technical Specification of "Data Centre Firewall for Internet and Intranet (from different OEM)" and "Server Load Balancer" and "Centralized AV and Anti-Spam"	Yes to cater to the requirement of scope
407	2	DCH/TR/19.01	134	Should be high performance purpose built next generation multi-tenant hardware with multi-core CPU support. Platform should support multiple network functions including application load balancing, application firewall, SSL VPN & global server load balancing functions with dedicated hardware resources for each virtual instance.	As per industry standards the SSL VPN is supposed to be a part of Firewall/UTM solutions. Hence we request to remove this feature. Suggested Clause: Should be high performance purpose built next generation multi-tenant hardware with multi-core CPU support. Platform should support multiple network functions including application load balancing, application firewall & global server load balancing functions with dedicated hardware resources for each virtual instance.	As per RFP
408	2	DCH/TR/19.02	134	Platform should have option to support 3rd party network functions from day one	The device should support next generation features like Virtualization that can that virtualizes the Device resources—including CPU, memory, network, and acceleration resources to provide complete separate environment from applications and management perspective.	As per RFP

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					Suggested Clause: The proposed Solution should have ADC-VX/Virtualization feature that virtualizes the Device resources—including CPU, memory, network, and acceleration resources. Each virtual ADC instance contains a complete and separated environment of the Following: a) Resources, b) Configurations, c) Management, d) OS	
409	2	DCH/TR/19.02	134	Platform should have option to support 3rd party network functions from day one	This clause gives UNDUE advantage to a single OEM. Running third party network functions on general purpose VMs risk security of entire appliance and should not be allowed. If department is ready to risk security of appliance and network, it can be allowed. Request you to change the clause to" Should support multiple network functions like WAF, DDOS, SSL VPN etc. from same OEM and running on same OS.	As per RFP
410	2	DCH/TR/19.03	134	The appliance should have minimum 8 x10G SFP+ data interfaces from day one	Since Server Load Balancer will be connected to Core Switch on multiple 40G ports, please change clause as below: "The appliance should have minimum 8 x10G SFP+ and 4x 40 G data interfaces from day one "	As per RFP
411	2	DCH/TR/19.04	134	The appliance should support Minimum 64GB RAM and 1*SSL ASICS/FGPA/cards with network virtual function support	Memory requirement is dependent on operating system of appliance and varies from OEM to OEM Request you to change this clause as : " The appliance should support Minimum	As per RFP

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					48GB RAM and SSL ASICS/FGPA/cards with network virtual function support"	
412	2	DCH/TR/19.05	134	Next generation multi-tenant platform should support traffic isolation, fault isolation and network isolation in order to meet the architectural environment. Each network function should have assigned dedicated hardware resources including I/O interfaces, memory, CPU, SSL card in order to ensure every network functions performs without affecting other functions	Assigning dedicated resources to network functions restrict the utilisation of resources as one network function might be startving for additional resources while other has idle resources. For a best deployment architecture - resources should be assigned dynamically while maintaining separation between functions so request you to change as - Next generation multi-tenant platform should support traffic isolation, fault isolation and network isolation in order to meet the architectural environment. Each network function should have assigned dedicated/dynamically hardware resources including I/O interfaces, memory, CPU, SSL card in order to ensure every network functions performs without resource crunch.	As per RFP
413	2	Data Centre Hardware and Software Components | Online UPS	134	General Query	As per BoQ, online UPS is to be considered for CCC. In technical specifications, 500 VA UPS is asked. 500 VA UPS wouldn't be sufficient to cater power for CCC. Kindly clarify.	MSI to decide capacity based on design
414	2	DCH/TR/19.06	135	The device should support up to 65 Gbps of System throughput	Considering the SSL TPS and other parameters 65 Gbps of throughput from SLB device will increase the sizing of the overall solution. Request you to change the clause to "The device should support up to 50 Gbps of System throughput"	As per RFP
415	2	DCH/TR/19.07	135	Platform should support multiple network functions in order to cater current and future requirements and performance numbers including throughput, connections, SSL	When a Server Load balancer has been asked as a dedicated device then why there is a need for 16 virtual instances. Request you to change the clause to "Platform	As per RFP

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				throughput and SSL transactions. Should support upto 16 Network Virtual Functions	should support multiple network functions in order to cater current and future requirements and performance numbers including throughput, connections, SSL throughput and SSL transactions. Should support upto 8 Network Virtual Functions"	
416	2	DCH/TR/19.07	135	Platform should support multiple network functions in order to cater current and future requirements and performance numbers including throughput, connections, SSL throughput and SSL transactions. Should support upto 16 Network Virtual Functions	The device should support next generation features like Virtualization that can that virtualizes the Device resources—including CPU, memory, network, and acceleration resources to provide complete separate environment from applications and management perspective. Also keeping future scalability in consideration higher performance figures and scalability should be considered. Suggested Clause: The proposed Solution should have ADC-VX/Virtualization feature that virtualizes the Device resources—including CPU, memory, network, and acceleration resources. Each virtual ADC instance contains a complete and separated environment of the Following: a) Resources, b) Configurations, c) Management, d) OS The proposed device should support upto 30 Virtual Instances.	As per RFP

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417	2	DCH/TR/19.08	135	Load balancer network function with minimum 15 Gbps of system throughput	Request you to delete this clause as the throughput requirement is already mentioned in clause 19.06	Please refer to the Corrigendum
418	2	DCH/TR/19.09	135	Should support up to 4 Million RPS per system	The performance figures should be clearly defined for Layer 4 and layer 7 traffic, also the figures should be inline with other capacity requirements mentioned in terms of throughput. Hence we request to amend this clause to ensure healthy competition. Suggested Clause: Should support up to 2 Million Layer 7 RPS and 1 million layer 4 CPS.	As per RFP
419	2	DCH/TR/19.10	135	Should support upto 35000 SSL Transactions per second	The appliance should support SSL offloading with ECC cipher suite which is the industry standard and provide superior encryption when compared to RSA with very less resources. Suggested Clause: Should support upto 50k SSL CPS/TPS with RSA 2k key and upto 25k SSL CPS/TPS with ECC.	As per RFP
420	2	DCH/TR/19.16	135	Script based functions support for content inspection, traffic matching and monitoring of HTTP, SOAP, XML, diameter, generic TCP, TCPS. Load balancer should support e-Policies to customize new features in addition to existing feature/functions of load balancer	E-policies is an OEM specific terminology which is a process of managing application traffic through scripting based language. Every OEM uses their won terminology to perform similar functions. Hence, request you to change the clause to "Script based functions support for content inspection, traffic matching and monitoring of HTTP, SOAP, XML, diameter, generic TCP, TCPS. Load balancer should support e-Policies or equivalent to customize new features in addition to existing feature/functions of load balancer"	As per RFP

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421	2	DCH/TR/19.20	135	Should support standard compression with re duplication and differencing to avoid re transmission of any content received earlier	Request to provide more clarity on requirement or make this clause as optional	As per RFP
422	2	DCH/TR/19.22	135	Proposed solution should support remote access which is 100% client less for web based applications	As per industry standards SSL VPN is supposed to be a part of Firewall/UTM solutions. Hence we request to delete this clause. Suggested Clause: Kindly remove this clause	As per RFP
423	2	DCH/TR/19.23	135	Should support for CIFS file share and provision to browse, create and delete the directories through web browser	We request to delete this clause to ensure healthy competition Suggested Clause: Kindly remove this clause	As per RFP
424	2	DCH/TR/19.24	135	Should maintain original server access control policies while accessing the file resources through VPN	As per industry standards the VPN is supposed to be a part of Firewall/UTM solutions. Hence we request to delete this clause. Suggested Clause: Kindly remove this clause	As per RFP
425	2	DCH/TR/19.26	136	Should have secure access solutions for mobile PDAs, Android, Windows and iOS based smart phones and tablets	As per industry standards the SSL VPN is supposed to be a part of Firewall/UTM solutions. Hence we request to delete this clause. Suggested Clause: Kindly remove this clause	As per RFP
426	2	DCH/TR/19.27	136	Should Support IPV6 and HA using standard VRRP protocol or equivalent	It should be standard VRRP only, allowing equivalent protocol will encourage solution with proprietary protocol which will be big challenge for integration/deployment.	As per RFP
427	2	DCH/TR/19.28	136	Proposed solution should provide machine authentication based on combination of HDD ID, CPU info and OS related	As per industry standard the remote authentication should be a part of Firewall/UTM solutions.	As per RFP

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				parameters i.e. MAC address to provide secure access to corporate resources.	Hence we request to delete this clause. Suggested Clause: Kindly remove this clause	
428	2	Server Load Balancer	136	New Clause Request	Industry Standard Certification should be considered in order to have benchmark and get healthy competition among the Industry Technology Leaders. Pls note that Gartner Leader Quadrant qualifies 3 OEM's. For the ADC. Suggested Clause: OEM should be present in Gartner's LEADER magic quadrant for ADC in the latest published report.	As per RFP
429	2	DCH/TR/20.01	136	Single Agent: Should be only single agent that combines all the critical components for total security on the endpoint. (Antivirus, Antimalware, Firewall, VPN Client, Virtual Browser etc.)	VPN client and virtual browser is not part of anti-virus solution and anti-virus client is different from VPN client. Hence request this point to be modified as "Single Agent: Should be only single agent that combines all the critical components for total security on the endpoint. (Antivirus, Antimalware, Firewall, etc.)" Also request to clarify the number of client AV licenses required	As per RFP
430	2	DCH/TR/20.01	136	Single Agent: Should be only single agent that combines all the critical components for total security on the endpoint. (Antivirus, Antimalware, Firewall, VPN Client, Virtual Browser etc.)	VPN and Virtual Browser are not AV features. Therefore the point should be changed to "Single Agent: Should be a single agent that combines all the critical components for comprehensive security on the endpoint. (Antivirus, Antispyware, device control, desktop firewall, Desktop HIPS, application control and Endpoint Detection & Response etc.)"	As per RFP
431	2	DCH/TR/20.01	136	Single Agent: Should be only single agent that combines all the critical components for total security on the endpoint. (Antivirus,	Please change the clause to "Should be agent that provide critical components for total security on the endpoint. (Antivirus,	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				Antimalware, Firewall, VPN Client, Virtual Browser etc.)	Firewall, Virtual Browser etc.). Please confirm whether MSI are free to decide whether the functional requirement can be met using single agent or multiple Restricting to Single Agent won't limit the choice of OEM MSI can position and they should have flexibility to design the architecture.	
432	2	Centralized AV and Anti-Spam	137	Gateway Security: · Should provide fast protection at the gateway across multiple protocols for inbound and outbound web traffic · The solution should provide protection against malware threats on all Web 2.0 file transfer channels · The solution should offer in built URL filtering with flexible policy controls, and in- depth reporting and alerts (the URL filtering license is required)	Please confirm whether Gateway AV functionality to be achieved using Web Security Solution or using Centralized AV and Anti-Spam There is duplication of functionalities asked in RFP. Gateway AV has already been asked in Web Security Solution and asking the similar capabilities in Centralized AV and Anti-Spam would increase the overall cost of solution and introduce latency in network	Not part of this RFP
433	2	DCH/TR/22.06	142	Solution should be able to connect to various applications with independent databases so as to include all user profiles from those applications and have seamless integration with proposed SIEM	As per our understanding the proposed solution should support logs forwarding to security information and event management tool and both solutions should be on premise solutions from single oem for tight integration. Kindly confirm if our understanding is correct.	Yes, understanding is correct
434	2	DDOS (Distributed Denial of Service)	144	New Clause Request	Industry Standard Certification should be considered in order to have benchmark and get healthy competition among the Industry Technology Leaders. Pls note that Forrester Leader Quadrant qualifies 5 OEM's. for the DDoS . Suggested Clause:	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					The proposed product should be in Forrester's Leader quadrant for DDoS as per latest published report and must be at least EAL 4+ certified	
435	2	DDOS (Distributed Denial of Service)	144	New Clause Request	Suggested Clause: EMERGENCY RESPONSE TEAM: The OEM has to provision for knowledgeable and specialized security experts who provide 24x7 (SLA defined), Real Time Professional Services for the network facing denial-of-service attack in order to restore network and service operational status. The service should NOT be a part of TAC support or SoC Team support, rather it should be OEM Professional Services team handling these kind of attack scenarios	As per RFP
436	2	DCH/TR/25.01	144	Hardware & Performance • Secure application delivery functionalities should be offered from a same or different OEM. • Should provide integrated functionalities of Link Load Balancing, SSL and DDoS Protection. • Should have Min 8 x 10G ports and 4 x 40GE QSFP+ ports • Should provide minimum throughput of 60 Gbps	All the Stateful devices like firewall,ADC,LinkLoad balacner,UTM holds IP at there interface is prone to DDoS Attack. Attackers can target interface IP's to Flood and make device/service unavailable to legitimate users. DDoS being a perimeter device should be place in stealth mode/invisibly into the network to avoid itself being targeted by a DDoS Attack. Hence it Should be dedicated box not a subset/license over any proxy/ADC/Firewall/Any stateful device. So, Functionality Of ADC or Link load balancing should not be a part of DDoS. As per industry standard DDoS Mitigation is sized with Max DDoS Flood Attack Prevention Rate which is measured in	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				• Should support minimum SSL TPS of 80k (RSA 2k keys) and minimum 48K (with ECDSA 256 key). • Should support minimum 30 Gbps hardware/software based Compression throughput • Should support minimum 35 Gbps of SSL throughput • Should provide HW/SW based SYN cookies Protection • Should support minimum 2M DNS Query Per Second • Should support minimum 30 Million or more L4 connection Should be capable of handling DOS/DDOS traffic according to throughput of network devices and requirements	MPPS (Million packets per second). Also, feature set such as SSL throughput, compression is related to DDoS over ADC instead of dedicated DDoS. The Ports mentioned is not Sync with the other perimeter device such as Router which is asked with 10G Ports. Suggested Clause: Hardware & Performance The DDoS mitigation solution should be a dedicated purpose built appliance based solution not a part of Firewall/UTM/Router/ADC | Mitigation Capacity/Throughput of 60 Gbps. | Latency should be less than 70 microsecond. | 25 Mpps flood attack prevention rate. | Legit Concurrent Sessions of 12 M & Max Attack Concurrent Sessions should be unlimited. | SSL/TLS Connections per Second should be 95kCPS. | Should have Min 8 x 10G ports scalable upto 20X10G ports. | Should provide HW/SW based SYN cookies Protection | Should be capable of handling DOS/DDOS traffic according to throughput of network devices and requirements.	
437	2	DCH/TR/25.01	144	Should provide integrated functionalities of Link Load Balancing, SSL and DDoS Protection	This point is specific to Adc vendor, in order to participate all other vendors request to modify this clause as " Should have a dedicated, Purpose built DDoS mitigation appliance, and not a part of ADC appliance"	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
438	2	DCH/TR/25.01	144	Should support minimum 30 Gbps hardware/software based Compression throughput	Software based compression uses system CPU and impacts the overall performance of appliance while HW based compression works on dedicated circuitry and improves overall performance of appliance. Request you to change the clause to: "Should support minimum 30 Gbps hardware based Compression throughput"	As per RFP
439	2	DCH/TR/25.01	144	Should provide HW/SW based SYN cookies Protection	SYN Cookies are primary DDoS attack Vector and should be protected on a dedicated hardware. System CPU is never used for SYN Cookies Protection as it will crash entire appliance resulting network and application outage. Is department ready to accept network outage with SYN Cookies protection in SW? Alternatively it should be changed to - Should provide HW based SYN cookies Protection	As per RFP
440	2	DCH/TR/25.02	145	Should provide SSL offloading with the SSL connection and persistence mirroring during the HA failover	This specific function is for Server load balancer and not for Anti-DDoS , Also this clause is favourable to specific OEM, hence request you to remove this clause.	As per RFP
441	2	DCH/TR/25.02	145	Availability Features: • Should offer programming / scripting for function like content inspection and traffic management • Should provide SSL offloading with the SSL connection and persistence mirroring during the HA failover • Should support global server load balancing between DC and cloud based DR. The proposed solution should support Link Load Balancing functionality.	DC-DR failover capabilities and Link load balancer are covered in Server load balancer and not a part of Anti-DDoS, again this clause is favourable to specific OEM , so request to remove this clause	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				Should support File Upload Violation & scanning for malicious content in Uploads through ICAP/PBR integration		
442	2	DCH/TR/25.02	145	Availability Features: • Should offer programming / scripting for function like content inspection and traffic management • Should provide SSL offloading with the SSL connection and persistence mirroring during the HA failover • Should support global server load balancing between DC and cloud based DR. The proposed solution should support Link Load Balancing functionality. Should support File Upload Violation & scanning for malicious content in Uploads through ICAP/PBR integration	Feature set such as Scripting, GSLB, Mirroring, Persistency is related to ADC instead of dedicated DDoS. Hence We request you to dilute Clause to ensure Dedicated DDoS Market Leader to Participate. Suggested Clause: Availability Features The Solution should have Fail-open/ Fail-close feature so that the service should be available all the time.	As per RFP

443	2	DCH/TR/25.03	145	Security Functionalities
				 • Should provide comprehensive security both at network and application level via Layer 3 to Layer 7 DDoS and SSL on a single device.
				 • Detects and prevents zero-day DNS-flood attacks.
				   ▪ DNS query limit
				   ▪ DNS Nxdmain attack protection
				   ▪ DNS TCP active authentication mechanism
				 • Should support integration with proposed WAF solution.
					The challenge response mechanism should be advanced so it does not result into bad user experience, hence advance techniques like Device fingerprinting which will identify the bots very precisely without any manual intervention to block them should be considered. The RFP talks about Zero day attack, in order to protect from Zero day attack the device should have behavioural Analysis engine that learns behaviour of the traffic inspected and in case of a Zero Day attack it should generated footprint to block the attack in REAL TIME BASIS (SIGNATURE LESS TECHNOLOGY) automatically (i.e. without human intervention). This detection should	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				• Should be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking. • Should provide protection against SYN Flood, DoS/DDoS attack (including VOIP/SIP based DDoS), DNS based attack, Zero-day attacks • Should be stable and not affect service availability even upon any system fault • Should have functionality to signal to Cloud Scrubbing center • Should detect any DDoS traffic and mitigate any DDoS attack without interrupt legitimate traffic and customer services. • Detection and Mitigation of volumetric DDOS traffic should occur within 3 min. • Should support SSL offloading using both RSA and ECC based keys • Should perform comprehensive counter measure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and	be done in few seconds as 3 Minute outrage of Critical Infrastructure can end up in monetary/business losses. The motive to integrate WAF is to reduce latency by putting WAF in OOP (Out of path) mode and blocking the attack at perimeter level by DDoS which is detected By WAF. Hence we request dilute this clause as OOP deployment mode is not asked in WAF. Suggested Clause: Security Functionalities · Should provide comprehensive security both at network and application level via Layer 4 to Layer 7 DDoS and SSL on a single device. · Detects and prevents zero-day DNS-flood attacks. § DNS query limit § DNS Nxdmain attack protection § DNS TCP active authentication mechanism. · Should be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking. · Should provide protection against SYN Flood, DoS/DDoS attack (including VOIP/SIP based DDoS), DNS based attack, Zero-day attacks · Should be stable and not affect service availability even upon any system fault · Should have functionality to signal to	

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				protect attacks in real time through inbuilt Captcha/ any other Mechanism. • Geolocation IP address database to identify the source of the attack origin and IP Reputation Mechanism to identify the Blacklisted Networks or Proxy IP address to Block the request immediately. • Protection from DNS based attacks originated from Botnets of connected IOT devices like sensors like CCTV cameras, parking sensors, thermostat etc. Should be capable to block traffic based on source country and internet, crowd sharing.	Cloud Scrubbing center · Should detect any DDoS traffic and mitigate any DDoS attack without interrupt legitimate traffic and customer services. ·Zero day attacks Protection with "Automatic Real Time Signature" generation based on Rate Variant, Rate Invariant algorithms & Challenge Response Mechanisms; within few seconds, without any human intervention. · Should perform comprehensive countermeasure to protect against zero day attack, Challenge – Response Mechanism, which should be able to detect and protect attacks in real time through inbuilt Captcha Mechanism/device fingerprinting. · Geolocation IP address database to identify the source of the attack origin and IP Reputation Mechanism to identify the Blacklisted TOR Networks or Proxy IP address to Block the request immediately. · Protection from DNS based attacks originated from Botnets of connected IOT devices like sensors like CCTV cameras, parking sensors, thermostat etc. | Should be capable to block traffic based on source country and internet, crowd sharing.	
444	2	DCH/TR/25.03	145	Should be able to take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking	Threat intelligence feed should be available from same OEM, and not a white label solution from different third party. It is highly recommended to have a threat intel feed from same OEM to have a correct actionable against attacks. And proactively mitigate 0 day attacks. Hence request you to modify this clause as "Should be able to	As per RFP

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					take threat intelligence feed to reveal inbound communication with malicious IP addresses, and enable granular threat reporting and automated blocking. Whereas Threat Intelligence feed should from a same OEM and not from different OEM (white label)"	
445	2	DCH/TR/25.04	146	Proposed solution should be manageable from the same management platform which manages WAF and DDoS	Request to remove this clause as this clause is favourable to specific OEM	As per RFP
446	2	DCH/TR/26.01	146	Should be capable to integrate/ encompass log, packet and end point data with added context and threat Intelligence	Shall we read Packet and log as Packet / Logs and one is required as mentioned in other points

Reason: In entire SIEM specks Logs/packet has been asked | Please refer to the Corrigendum |
| 447 | 2 | DCH/TR/26.01 | 146 | Should provide complete network visibility through deep packet inspection high-speed packet capture and analysis. | Should provide complete network visibility through deep log/ packet inspection high-speed packet/log capture and analysis.x

Reason: In entire SIEM specks Logs/packet has been asked | Please refer to the Corrigendum |
| 448 | 2 | DCH/TR/26.01 | 146 | Solution should provide role based encryption and decryption up to field level devices with critical logs will be captured at any state of data (Rest, Move or Use) | Should provide log de-identification using format preserving encryption at source itself | Please refer to the Corrigendum |
| 449 | 2 | DCH/TR/26.01 | 146 | Should be capable to integrate/ encompass log, packet and end point data with added context and threat Intelligence | We request to change it to below:

Should be capable to integrate or encompass logs/packet and endpoint data with added context and threat intelligence. Justification: In entire SIEM specifications, Logs/packet has been asked. Most of the leading SIEM solutions work on | Please refer to the Corrigendum |

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					logs and logs have context and other relevant information to identify an incident. If dedicated packet capture solution is required, we request the RFP mention that it has to be integrated with proposed SIEM solution.	
450	2	DCH/TR/26.01	146	Should provide complete network visibility through deep packet inspection high-speed packet capture and analysis.	We request to ask for dedicated pacture capture solution. SIEM solutions primarily work on logs. We request you to change it to below Should provide complete network visibility through deep log/ packet inspection, high-speed packet/log capture and analysis. Justification: In entire SIEM specifications, Logs/packet has been asked	Please refer to the Corrigendum
451	2	DCH/TR/26.01	146	Solution should provide role based encryption and decryption up to field level devices with critical logs will be captured at any state of data (Rest, Move or Use)	Most of field level devices does not have ability to send logs in encrypted fashion, e.g. Cisco/Linux devices send events in syslog plain text. But once these event logs received by SIEM, it must ensure event log data is encrypted while it is moving between different components of SIEM architecture for processing/storing. Hence request you to remove this clause or change this to "The data communication between SIEM architecture components must be encrypted for confidentiality purpose"	Please refer to the Corrigendum
452	2	DCH/TR/26.09	146	Should support minimum 30,000 EPS including log management and peak up to 100000 at burst.	Ideally the log management devices sized to 2x of the requirement (30K EPS) for peak similar to IT Infra resources sized to handle the surge. But here in this case the peak sized to more than 3x of the requirement, which does not make sense as the	As per RFP

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					supporting IT infra itself is very unlikely to generate such load and oversized Log management would attract additional hardware/storage cost which is at no use. Hence request you to change this clause to "Should support minimum 30,000 EPS including log management and peak up to 60,000 at burst, and solution must be scalable in the units of 30K EPS/peak 60K with dedicated appliance."	
453	2	DCH/TR/26.10	146	Correlation Engine appliance should be consolidated in a purpose build appliance and should provide minimum 20,000 EPS and should be able to handle all peak spikes.	While requirement for log collection and management is 30,000 EPS and peak up to 100,000 at burst; why is the correlation engine capacity requirement down sized to 20,000 EPS? Ideally it should be sized to as Log Management 30K EPS and packet capture so that correlation engine have every data for correlation and analytics. Hence recommend to change this clause to "Correlation Engine appliance should be consolidated in a purpose build appliance and should provide minimum 100,000 EPS to correlate both Log and Packet data and accommodate future growth without having to add additional hardware and should be able to handle all peak spikes."	As per RFP
454	2	DCH/TR/26.15	147	Should store RAW log/packet DATA for 7 days and normalized log/packet data for 30 days for forensics.	What is the link (e.g. internet) bandwidth and its peak throughput for which Deep packet inspection to be deployed? If customer does not have these details handy, we recommend to start packet capture solution for min 1Gbps and peak 2Gbps. Please confirm or provide accurate information for appropriate sizing.	As per RFP

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455	2	DCH/TR/26.20	147	Solution should be able to detect malicious payload in network traffic · Detect and reconstruct files back to its original type · Detect hidden or embedded files · Detect and flag out renamed files	Need to be deleted Reason: In entire SIEM specks Logs/packet has been asked	Please refer to the Corrigendum
456	2	DCH/TR/26.20	147	Solution should be able to detect malicious payload in network traffic · Detect and reconstruct files back to its original type · Detect hidden or embedded files · Detect and flag out renamed files	Need to be deleted. As this is not a functionality of SIEM. We request you to please ask for dedicated packet capture solution. Justification: This isn't a functionality of SIEM.	Please refer to the Corrigendum
457	2	DCH/TR/26.21	147	The solution should have the ability to capture network traffic and import PCAP files using the same infrastructure.	Need to be deleted. As this is not a functionality of SIEM. We request you to please ask for dedicated packet capture solution. Justification: This isn't a functionality of SIEM.	Please refer to the Corrigendum
458	2	DCH/TR/26.21	147	The solution should have the ability to capture network traffic and import PCAP files using the same infrastructure.	Need to be deleted Reason: In entire SIEM specks Logs/packet has been asked	Please refer to the Corrigendum
459	2	DCH/TR/26.21	147	The solution should have the ability to capture network traffic and import PCAP files using the same infrastructure.	Amendment Request: The solution should have the ability to capture network traffic and import PCAP files using the same infrastructure and following are the minimum suggested features of packet capture : -Perform meta data extraction, meta-indexing, anomaly detection and data enrichment into Antimalware/Dynamic Analysis and various threat intelligence. Submit details on solution capability, what security threats it can detect and what it	Please refer to the Corrigendum

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					cannot detect without relying on any 3rd party tools - Perform flow generation and analysis and must perform aggregation of all traffic pertaining to a single session within a single flow record. - Integrate with internal &external Threat Intelligence and assign risk scores to individual network hosts, devices or segment etc. based on traffic analysis and TI to generate security alerts. Submit details on risk scoring mechanism and what external threat intelligence sources are used. - ProvideLayer-2 to Layer-7 analytics for network & application security monitoring such as preview with customizable levels of session fidelity; data visualization; timeline analysis of suspect sessions; detailed artefact; and trend analysis etc. Submit details layer wise (L2-L7) threats detection and monitoring capability. What parameters are monitored for security monitoring at L2 layer, L3 layer ...layer7 - provide complete control over traffic capture filters, providing the ability to filter network traffic, either during capture or when replaying captured traffic later, inclusively or exclusively - have capability to integrate with SIEM to have unified visibility. Submit details on SIEM integration and workflow depicting mechanism how alerts are sent to SIEM with all mandatory alert fields -Reconstruction complete session, file and object. Provide in data visualization, timeline analysis, IP geolocation, and trend	

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					analysis to quickly identify and shut down attack activity	
460	2	DCH/TR/26.22	147	Should encompass log, packet and end point data with added context and threat Intelligence. Should provide complete network visibility through deep packet inspection high-speed log/packet capture and analysis.	Amendment Request: Should encompass log, packet and end point data with added context and threat Intelligence. Should provide complete network visibility through deep packet inspection high-speed log/packet capture and analysis. Threat intelligence with capabilities of security research and analysis from across the globe. Request to add the below minimum features for threat intelligence Threat intelligence with capabilities of security research and analysis from across the globe. Threat intelligence portal should have following features: - Vendor Threat Intelligence should have intelligence build using monitoring of following minimum events: a. More than 200K sensors monitoring networks b. More than 5 billion emails per day c. More than 1 billion web requests a day d. More than 50M attack sensors in 150 countries e. More than 1 trillion rows of telemetry -Provides comprehensive vulnerability coverage across 50K+ technologies from more than 15K vendors -IP, Domain, URL, URL Count, Hostility, Reputation, Confidence, Behaviour, Consecutive Days, Listing over a 90 day window, Geo-location Attributes, Industry Attributes, Ownership Attributes, Registration Attributes, Attack Behaviour Details, Malware Behaviour Details,	As per RFP

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					Phishing Behaviour Details, Fraud Behaviour Details, Bot Behaviour Details, CnC Behaviour Details, Spam Behaviour Details -Threat intelligence OEM has to be a different OEM than Firewall, NIPS and SIEM	
461	2	DCH/TR/26.26	147	Solution should be able to support real time correlation based on min 15000 EPS which is 50% of total , historic correlation, Advance correlation, statistical correlation , application analytics through number of rules and use cases on same appliance or HW	This requirement contradicts with DCH/TR/26.10. However, why is the correlation engine capacity requirement being down sized to 15,000 EPS, while requirement for log collection and management is 30,000 EPS? Ideally it should be sized to same as Log Management (30K EPS) and packet capture data otherwise correlation engine always receive partial data and lead incident detection failure. Hence recommend to remove this clause	Please refer to the Corrigendum
462	2	DCH/TR/27.03	148	Should have performance capability of processing upto 50,000 messages per hour.	Please confirm if the actual value it 50,000 messages per day As per Section "Network Connectivity on Lease" Vol2 page 194, external gateway internet services to be provisioned considering 30,000 concurrent users. 2,00,000 messages per hour is very high and appears to be typo error. Request to clarify the values to ensure proper solution is proposed	As per RFP
463	2	DCH/TR/27.08	148	Should have up to 1500 predefined content rules inbuilt with Email Security & embedded in the product	Please change clause to "Should have predefined content rules inbuilt with Email Security& embedded in the product"	As per RFP
464	2	DCH/TR/27.13	148	Should have capabilities to quarantine mails with content that violates the policy and notify sender or sender's manager automatically. The mails that are	Please change the clause to "Should have capabilities to quarantine mails with content that violates the policy and notify sender or sender's manager automatically. The mails	As per RFP

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				quarantined because of content control policies should be released if the sender's manager replies to the notification mail	that are quarantined because of content control policies should be released by administrator" Email administrator should be able to release a mail if they think it is legitimate mail	
465	2	DCH/TR/27.15	149	Should monitor and control sensitive email if download to mobile device through active sync and block at gateway level	Please remove this clause This is specific to OEM and hence requesting change	As per RFP
466	2	DCH/TR/27.32	150	Should support custom report creation in HTML, Excel/CSV and PDF.	Please change the clause to "Should support custom report creation in HTML, Excel/CSV and PDF" Different OEM use different mechanism hence requesting change.	As per RFP
467	2	DCH/TR/28.04	150	Encryption: AES, Format-preserving encryption FF3	Encryption: AES, Format-preserving encryption FF1. FF3 to be deleted Reason: On April 12th, 2017, the National Institute of Standards and Technology (NIST) announced a cryptanalytic attack on the AES FFX Format-preserving Encryption (FPE) mode FF3, and as a result, NIST have revised Special Publication 800-38G, the document that specifies approved AES FFX FPE modes. As a result of the identified weaknesses in the FF3 mode, NIST no longer considers FF3 suitable FPE mode - AES-FF1 algorithm is not affected by the FF3 vulnerability. Thus, FF1 mode of encryption must be used.	Please refer to the Corrigendum

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					https://csrc.nist.gov/news/2017/recent-cryptanalysis-of-ff3	
468	2	DCH/TR/28.05	151	Performance: 400,000 credit card size encryption transactions per second (e.g. single thread, 32 core, 16GB, C)	To be deleted Reason: This clause should be removed as there are no credit card related transactions in smart city project	Please refer to the Corrigendum
469	2	DCH/TR/28.06	151	Policy and key administration: Centralised Security Manager	Policy & Key Management: "Centralized" & "Stateless" - No Key database should be required; keys to be generated on the fly Reason: Stateless Key Management permits simple load balancing and high availability which is not possible in case of key vaults or databases	As per RFP
470	2	DCH/TR/29.01	151	The solution should be able to protect data-at-rest against root/system privileged user account access. It should also protect file level encryption	The solution should be able to provide End-to-end protection for complete data-centric security to neutralize data breach impact from point of data creation throughout the information lifecycle—in use, in motion, at rest. Reason: Not just data-at-rest protection BUT End-to-end data-centric protection should be provided	As per RFP
471	2	DCH/TR/29.03	152	The proposed tokenization and masking solution should provide REST API	The proposed tokenization and masking solution should provide Web Services APIs (SOAP and REST) & Client side APIs ((C, Java, .Net) when client-side FPE is desired. Reason: Solution should not just be limited to provide REST API only	Please refer to the Corrigendum
472	2	DCH/TR/29.03	152	The data masking solution should support - dynamic masking through policy based masks - Teradata V14 and V14.1 database	The data masking solution should support - dynamic masking through policy based masks - Teradata V14 and V14.1 database	Please refer to the Corrigendum

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				encryption with UDF - vaultless tokenization - vault based tokenization - gateway to encrypt data stored on S3 and Box - Should protect data at rest, motion and use	encryption with UDF - Stateless tokenization - gateway to encrypt data stored on S3 and Box - Should protect data at rest, motion and use Reason: Remove vault based tokenization as it dramatically affects the speed, security, scalability, manageability (Backup & Disaster Recovery)	
473	2	DCH/TR/29.05	153	The proposed data protection solution should support a centralized policy and key management, with highly configurable security and policy enforcement provide granular access control and audit.	The proposed data protection solution should support a centralized policy and key management, with highly configurable security and policy enforcement provide granular access control and audit. Additionally - Proposed solution should have the capability to embed information into the encrypted data so that the access policy remains with the data to enable data centric protection without changing the size of the data field. Reason: Solution should be capable to provide true data-centric protection, where the data policy travels with the data itself	As per RFP
474	2	DCH/TR/30.01	153	Shall support Native data capacity of 100TB (uncompressed) expandable to 200TB (compressed).	Proposed appliance should be sized appropriately for backup of XXTB of (FileSystem, Database & VM Data) as per below backup policies a. Daily Incremental Backup – retained for 4 weeks in disk based appliance b. Weekly Full Backup for all data types – retained for 1 month in disk based	As per RFP

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					appliance c. Monthly Full Backups – Retained for 12 Months in the same appliance d. Yearly Full Backups - Retained for 5 years in the same appliance. The solution should be quoted with a minimum usable capacity of XX TB and should be scalable upto XXTB or higher for long term retention. Any additional capacity required as per above mentioned retention policy sizing needs to be provided by the bidder/OEM for an entire warranty period of the disk appliance. We request department to look for Purpose Built Backup Appliance instead of Tape library to have the backup solution implemented as per industry standard of disk to disk backup. Note:- Department can replace XX with their actual data backup requirement so that bidders can quote accordingly	
475	2	DCH/TR/31.04	155	Solution should be capable of reporting rule based vulnerabilities and should be EAL 4 Certified	This is referring to a particular vendor. This must be removed or changed to "Solution should be capable of reporting rule based vulnerabilities and should be EAL 2+ Certified"	As per RFP
476	2	GIS/FR/1.01	159	MSI shall integrate all spatial & non-spatial data of this project into an Enterprise Geodatabase and develop a GIS portal with required GIS functions, Tools, Analysis & Dashboard to provide web access to all users of the project	Bidder is responsible for generation of Spatial and non-spatial data or RSCL will provide the GIS data for integration. If data needs to be prepared by bidder than high resolution satellite imagery or drone/UAV imagery will be required for GIS mapping. Whether imagery will be provided	As per RFP

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					by RSCL or needs to procured/acquired by bidder. Please clarify whether data model for Enterprise geodatabase will be provided or bidder needs to prepare?	
477	2	GIS/FR/1.07	160	Data Design, Modelling and Services: • MSI shall finalize the data list with all its structure & metadata for approval; • MSI shall carry out data integration requirement study with stakeholders and submit SRS (System Requirement Study) and Architecture document for approval by considering following factors (not limited to): Best GIS practices shall be followed in spatial positional accuracy, GIS layers overlay matching accuracy, data correctness and completeness; All the data generated, stored, linked as a part of this project from various modules shall be available as necessary to integrate with GIS portal through web services or data sharing through live/real time, offline, periodical, etc. as deemed to be appropriate; Apart from other modules data, all other required data for GIS portal shall be carried out with suitable data design and data modelling; All required Data Modelling, Design shall be carried out by MSI to get Design Document approved from Rourkela Smart City; Scale of mapping shall be 1:1000 or better as per requirement; Integration of Government-to-Customer	Is RSCL considering GIS data creation & modelling that supports rule based model on industry standard such as Topology, Spatial connectivity rules, relationship, GIS layer domains and subtypes, GIS Geometric network, industry specific editing rules and future scalability? Please clarify.	Yes

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				(G2C), Government-to-Government (G2G) & Government-to-Business (G2B) data; Integration, export & import of various formats of data such as KML, JSON, XLS, XML, etc.;		
478	2	GIS/FR/1.07	160	3D Data of city	We understand that 3D data will be provided by RSCL and the required GIS platform solution must have capability to build 3D application using the same? Please clarify?	No. MSI is expected to design the 3D data of Rourkela city
479	2	GIS/FR/1.07	160	3D Data of city.	1) Please clarify what level of 3d data of city will be required? 2) How many buildings 3D data will be required? 3) Who will going to give Building level height for 3d Data of city? Please also clarify the methodology of capturing- By survey or Stereo pair Image data	MSI to make its own assessment through pre-proposal survey to meet the functional requirement of the RFP
480	2	GIS/FR/1.07	160	Data creation - Necessary Field Survey, collection from various sources, compilation, digitization, accurate geo-referencing of spatial & Image data, migration, data conversion, integration, Enterprise Geodatabase preparation (in any OGC format) & maintenance shall be carried out by MSI;	1) Please Clarify, who will going to prepare Base maps? 2) Who will provide going to provide all secondary departmental information?	1) MSI will prepare the base maps 2) MSI will collect the information from the concerned departments and RSCL shall facilitate in collecting the same
481	2	GIS/FR/1.07	160	Data creation - Necessary Field Survey, collection from various sources, compilation, digitization, accurate geo-	1) What is the scope of field survey? Please let us know the area of the city to be surveyed and the various component	MSI to make its own assessment

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				referencing of spatial & Image data, migration, data conversion, integration, Enterprise Geodatabase preparation (in any OGC format) & maintenance shall be carried out by MSI;	required to be surveyed with tentative quantity? 2) Does the department give all the necessary data for base map creation or MSI need to conduct city survey for base map preparation?	through pre-proposal survey
482	2	GIS/FR/1.07	160	Scale of mapping shall be 1:1000 or better as per requirement;	1) What is the specification of satellite image for mapping scale 1:1000? 2) Who will going to provide image data, MSI or RSCL? As it very difficult to create base map from existing HRSI images available in commercial market.	1) MSI to ascertain the same to meet the functional requirement of the RFP 2) MSI shall be responsible for preparation of the image data
483	2	GIS/FR/1.07	160	Scale of mapping shall be 1:1000 or better as per requirement;	Pls quantify the Area of interest in sqkm to generate the base map.	MSI to make its own assessment through pre-proposal survey in consultation with RMC and RDA
484	2	GIS/FR/1.07	160	MSI shall carry out data integration requirement study with stakeholders and submit SRS (System Requirement Study) and Architecture document for approval by considering following factors	Which are the systems planned for integration. Pls define the scope for integration.	MSI to ascertain the same through pre-proposal survey
485	2	GIS/FR/1.07	160	Integration of Government-to-Customer (G2C), Government-to-Government (G2G) & Government-to-Business (G2B) data;	>Is the functionality expected from the software or the integration to be performed with G2C, G2G, G2B. >If the scope is for integration pls list the systems to be integrated.	MSI to ascertain the same through pre-proposal survey

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486	2	GIS/FR/1.07	160	Integration, export & import of various formats of data such as KML, JSON, XLS, XML, etc.;	Is the functionality expected from the software. Pls conform.	As per RFP
487	2	GIS/FR/1.07	160	3D Data of city.	Is the functionality expected from the software. Pls conform.	As per RFP
488	2	GIS/FR/1.07	160	MSI shall carry out collection of data from various agencies or Government departments. All required data (spatial and non-spatial) are to be arranged by MSI. Rourkela Smart City will help by issuing required authorization letters;	>What is the data referred here. >Which are the various agencies or government departments involved in the project. >What is the expected outcome from the collected data.	MSI to make its own assessment through pre-proposal survey
489	2	GIS/FR/1.07	160	Data creation - Necessary Field Survey, collection from various sources, compilation, digitization, accurate geo-referencing of spatial & Image data, migration, data conversion, integration, Enterprise Geodatabase preparation (in any OGC format) & maintenance shall be carried out by MSI;	>All the services mentioned here are very high level. Quantifying / sharing the available information will help in planning the efforts. >Necessary Field Survey - Survey is generic term. Based on the scope MSI will decided on the survey since the survey scope is not clearly defined.	MSI to make its own assessment through pre-proposal survey
490	2	GIS/FR/1.07	160	Some of the Government department's original records/drawings/maps/files may not be shared outside their office premises because of classified information, security & safety concerns. In such cases, the MSI shall compile/extract those source information at respective departments premises/onsite with necessary operational setup at their own expenses;	>Pls provide the list of government departments were such datas are available. >What is the size of records/drawings/maps. How many are in A4, A3, A2, A1, A0. >Whether basic infra will be provided in onsite for the operational setup.	MSI to ascertain the same through pre-proposal survey
491	2	GIS/FR/1.07	160	After successful Go-live and implementation, the Maintenance & Operation of GIS shall be carried out during MSI's contract period by taking care of Data Management, 24/7 availability of Database, periodical data updation, editing & performance management.	Pls elaborate - periodical data updation, what is the scope for updation.	As per RFP

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492	2	GIS/FR/1.07	160	Data Design, Modelling and Services: MSI shall carry out data integration requirement study with stakeholders and submit SRS (System Requirement Study) and Architecture document for approval by considering following factors (not limited to): Best GIS practices shall be followed in spatial positional accuracy, GIS layers overlay matching accuracy, data correctness and completeness; All the data generated, stored, linked as a part of this project from various modules shall be available as necessary to integrate with GIS portal through web services or data sharing through live/real time, offline, periodical, etc. as deemed to be appropriate; Apart from other modules data, all other required data for GIS portal shall be carried out with suitable data design and data modelling; All required Data Modelling, Design shall be carried out by MSI to get Design Document approved from Rourkela Smart City; Scale of mapping shall be 1:1000 or better as per requirement; Integration of Government-to-Customer (G2C), Government-to-Government (G2G) & Government-to-Business (G2B) data; Integration, export & import of various formats of data such as KML, JSON, XLS, XML, etc.;	To achieve the desired scale of mapping very high resolution imagery with spatial resolution of 0.3 m will be required. Drone image acquisition techniques will provide a very high resolution imagery which will be more useful for accurate mapping. Please clarify the nature of image data for procurement / acquisition.	As per RFP However, MSI may design its solution to meet the functional requirement of the RFP
493	2	GIS/FR/1.07	160	Data Design, Modelling and Services: -3D Data of city.	For 3D city data Stereo satellite imagery will be required for 3D data generation. Whether stereo imagery (from satellite platform or Drone/UAV platform) will be	MSI to ascertain the same through

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					provided by RSCL or bidder needs to acquire / procure. Is there any scope of 3D city model generation. if yes than kindly provide level of details required for the data to be prepared (e.g. LOD 0, LOD 1, LOD 2 etc.)	pre-proposal survey
494	2	GIS/FR/1.07	160	Data Design, Modelling and Services: Data creation - Necessary Field Survey, collection from various sources, compilation, digitization, accurate geo-referencing of spatial & Image data, migration, data conversion, integration, Enterprise Geodatabase preparation (in any OGC format) & maintenance shall be carried out by MSI;	Is there any scope of DGPS survey for GCP collection as it is an integral part of image rectification process as well as GIS data referencing (main source of positional accuracy). Kindly provide details of field survey that needs to be carried out by the bidder other than GCP collection Survey using DGPS.	MSI to ascertain the same through pre-proposal survey
495	2	GIS/FR/1.07	160	Data creation - Necessary Field Survey, collection from various sources, compilation, digitization, accurate geo-referencing of spatial & Image data, migration, data conversion, integration, Enterprise Geodatabase preparation (in any OGC format) & maintenance shall be carried out by MSI;	1) What is the scope of field survey? Please let us know the area of the city to be surveyed and the various component required to be surveyed with tentative quantity? 2) Does the department give all the necessary data for base map creation or MSI need to conduct city survey for base map preparation?	MSI to ascertain the same through pre-proposal survey. MSI to conduct survey to create Base map for GIS platform
496	2	GIS/FR/1.07	160	Scale of mapping shall be 1:1000 or better as per requirement;	1) What is the specification of satellite image for mapping scale 1:1000? 2) Who will going to provide image data, MSI or RSCL? As it very difficult to create base map from existing HRSI images available in commercial market.	1) MSI to ascertain the same to meet the functional requirement of the RFP 2) MSI shall be responsible for

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						preparation of the image data
497	2	GIS/FR/1.07	160	3D Data of city.	1) Please clarify what level of 3d data of city will be required? 2) How many buildings 3D data will be required? 3) Who will going to give Building level height for 3d Data of city? Please also clarify the methodology of capturing- By survey or Stereo pair Image data	MSI to make its own assessment through pre-proposal survey to meet the functional requirement of the RFP
498	2	GIS/FR/1.08	160	Should be capable of integrating with existing GIS data available with RSCL/ State Government/ RMC/RDA.	Pls provide the expected systems from RSCL/ State Government/ RMC/RDA which is to be integrated.	MSI to ascertain the same through pre-proposal survey
499	2	GIS/FR/1.08	160	Should be capable of integrating with existing GIS data available with RSCL/ State Government/ RMC/RDA.	1) Please clarify, what level of existing GIS map data is available with RSCL/ State Government/ RMC/RDA. 2) Give in detail, the formats of vector/raster type data. 3) For integrating existing data type, so data model creation and data migration process should be include in BOQ.	MSI to ascertain the same to meet the functional requirements of the RFP
500	2	GIS/FR/1.17	161	Standardization and Interoperability – the proposed Web GIS Map engine shall be OGC (Open Geospatial Consortium) and SWE (Sensor Web Enablement) compliant	1) As per OGC standard, SWE standard is for different types of sensor to be integrate with web. The Sensor must provide API`s which is interoperability with any GIS platform. Please clarify in these regards.	As per RFP
501	2	GIS/FR/1.18	161	3D view options of buildings & terrain;	1) Is 3d module required for the GIS solutions? If yes, it must be added in BOQ. 1) It is required to display Base map on 3d view w.r.t terrain. 2) Is any 3d analysis is required? For example: Profile, Lineofsight etc on 3d view.	As per RFP

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502	2	GIS/FR/1.18	161	The client side user interface & map display Performance shall ensure real-time response (within 2 sec) at any given point of time & ensure uninterrupted performance;	1: Kindly specify number of concurrent users of GIS system at any given time. 2: Response time can only be achieved within RSCL controlled network. On third party network client bandwidth is unknown and beyond MSI control.	Approx. 15000 concurrent users
503	2	GIS/FR/1.18	161	The client side user interface & map display Performance shall ensure real-time response (within 2 sec) at any given point of time & ensure uninterrupted performance; · The web user interface for the GIS map shall allow basic functionalities including (but not limited to) zoom factor/scale based feature loading, variable symbology, linetype scaling, cartography standards, etc.; · The system should have secured access; · Efficient search tools & print tools; · Efficient query tools – Spatial Query & non-spatial query; · 3D view options of buildings & terrain; · Role based access allowing various functionalities at different roles.	All these are assumed as the software capabilities. Pls conform.	Yes, the understanding is correct
504	2	GIS/FR/1.19	161	GIS base map shall include following, but not limited to these data with attributes which shall be finalized during study phase; • Road Network • Rail Network • Administrative Boundaries • Building footprints and names	Kindly clarify if RSCL will provide available data of Pincode polygons, locality and sub-locality polygons for address layer as well?	Base maps are MSI responsibility. MSI should be able to integrate with the GIS data provided by different departments across RMC and Govt of

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						Odisha GIS initiative. MSI should be able to fetch such data and load the same in GIS platform for further use by RSCL
505	2	GIS/FR/1.19	161	GIS base map shall include following, but not limited to these data with attributes which shall be finalized during study phase; • Road Network • Rail Network • Administrative Boundaries • Building footprints and names	Kindly confirm if RSCL will procure or already have Satellite images of pan city area for Base map preparation?	Base maps are MSI responsibility. MSI should be able to integrate with the GIS data provided by different departments across RMC and Govt of Odisha GIS initiative. MSI should be able to fetch such data and load the same in GIS platform for further use by RSCL
506	2	GIS/FR/1.19	161	GIS base map shall include following, but not limited to these data with attributes which shall be finalized during study phase; • Road Network • Rail Network	Does the department give all the necessary data for base map creation or MSI need to conduct city survey for base map preparation?	MSI to conduct survey to create Base map for GIS platform

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				• Administrative Boundaries • Building footprints and names		
507	2	GIS/FR/1.19	161	Points of Interest data, not limited to: Address Layers (Pin code, Locality, Sub-Locality etc.), Utility Networks (OFC, Water, Sewer, Drainage etc.),	1) Who will give address layers, utilities network and other utilities or services Location/Secondary information?	MSI will collect the relevant information. RSCL shall facilitate in obtaining the same from concerned departments
508	2	GIS/FR/1.19	161	Points of Interest data, not limited to:	1) Who will be providing point of interest data information? 2) Point of interest data which is mention in RFP is fixed or it can be varied while base map preparation?	MSI will collect the relevant information. RSCL shall facilitate in obtaining the same from concerned departments
509	2	GIS/FR/1.19	161	GIS base map shall include following, but not limited to these data with attributes which shall be finalized during study phase; · Road Network · Rail Network · Administrative Boundaries · Building footprints and names · Points of Interest data, not limited to: Health Services (Hospitals, Blood Banks, and Diagnostics Centre, Ambulance Services, Other Medical Services etc. Community services (Fire stations, Police stations, Banks, ATMs, Post offices, Educational facilities, Govt. Buildings etc.) Business Centres (Shopping malls, Markets, Commercial complexes etc.	Please clarify whether the data already available for creation of layer or survey need to be done to get the data.	MSI will conduct a survey to obtain relevant data for creation of layer. RSCL shall facilitate in data collection from the concerned departments

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				Residential areas (Apartments, Housing societies) Transportation (Bus stops/Terminus, Parking areas, Petrol Pumps, Airports etc.) Recreation facilities (Restaurants, Theatres, Auditoriums etc. Other utilities such as travel and tourism facilities, religious places, burial grounds, solid waste locations · Land-Cover (Green areas, Open areas, Water bodies) · Address Layers (Pin code, Locality, Sub-Locality etc.) · Utility Networks (OFC, Water, Sewer, Drainage etc.) · Locations of other Municipal Assets · Education (Primary/Secondary/High School/Colleges) · Religious structures · Community centres		
510	2	GIS/FR/1.19	161	GIS base map shall include following, but not limited to these data with attributes which shall be finalized during study phase; · Administrative Boundaries · Building footprints and names · Address Layers (Pin code, Locality, Sub-Locality etc.) · Utility Networks (OFC, Water, Sewer, Drainage etc.) · Locations of other Municipal Assets · Education (Primary/Secondary/High School/Colleges)	>It is assumed that Administrative Boundaries will be provided by RSCL. >Whether the scope of Building footprints is limited to the names or the door numbers to be captured. >It is assumed that Address Layers source information (Pin code, Locality, Sub-Locality etc.) will be provided by RSCL. >What is the scope of Utility network? It is assumed that the source information of all the utility network will be provided by RSCL. Utility survey will not be in the scope of MSI. > Pls define / list the other municipal assets to be captured.	MSI to ascertain the same through pre-proposal survey

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					> It is assumed that the source information for education will be provided by RSCL.	
511	2	GIS/FR/1.19	161	GIS base map shall include following, but not limited to these data with attributes which shall be finalized during study phase; · Road Network · Rail Network · Administrative Boundaries · Building footprints and names · Points of Interest data, not limited to: Health Services (Hospitals, Blood Banks, and Diagnostics Centre, Ambulance Services, Other Medical Services etc. Community services (Fire stations, Police stations, Banks, ATMs, Post offices, Educational facilities, Govt. Buildings etc.) Business Centres (Shopping malls, Markets, Commercial complexes etc. Residential areas (Apartments, Housing societies) Transportation (Bus stops/Terminus, Parking areas, Petrol Pumps, Airports etc.) Recreation facilities (Restaurants, Theatres, Auditoriums etc. Other utilities such as travel and tourism facilities, religious places, burial grounds, solid waste locations · Land-Cover (Green areas, Open areas, Water bodies) · Address Layers (Pin code, Locality, Sub-Locality etc.) · Utility Networks (OFC, Water, Sewer, Drainage etc.) · Locations of other Municipal Assets · Education (Primary/Secondary/High School/Colleges)	Please clarify whether the attribute information for all the GIS layers will be provided by RSCL or bidder has to conduct field survey for the same.	MSI will conduct a survey to collect relevant information for all the GIS layers

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				· Religious structures · Community centres		
512	2	GIS/FR/1.19	161	Points of Interest data, not limited to: Address Layers (Pin code, Locality, Sub-Locality etc.), Utility Networks (OFC, Water, Sewer, Drainage etc.),	1) Who will give address layers, utilities network and other utilities or services Location/Secondary information?	MSI to conduct a survey to collect the relevant information
513	2	GIS/FR/1.21	164	The application Shall have support for CQL Filters to obtain better Analytical capabilities	Please include the SQL filter for better analytical capabilities. Suggested: The application Shall have support for CQL/SQL Filters to obtain better Analytical capabilities.	MSI can decide to include any filter to provide the outcome meeting RFP requirements
514	2	GIS/FR/1.21	164	The WebGIS Application shall be highly scalable to serve increasing number of user with no extra cost	Enterprise web GIS applications must be scalable for any future need. However, the current proposition would be based on the requirement within its defined boundary scope of work. Any increase in user numbers outside the scope of work of RFP would going to increase the number of hardware and software. For factoring hardware & software sizing are based on the usage of entire system and on no. of users, department's applications and integrations. We request authority to clarify the usage of GIS application in terms of users & usage for the entire duration of the project to effectively size the hardware & software. Please remove the clause of no extra cost. Suggested: You may also mean that the web-GIS application shall be highly scalable to serve increasing number of viewers at no extra cost.	As per RFP MSI to make its own assessment.

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515	2	EMS/TR/1.01	165	Proposed EMS solution should be ITIL processes for service delivery certified on at least 10+ processes to ensure processes are well defined.	Our submission is to either remove this clause or rephrase the clause as "Proposed EMS solution should be ITIL processes for service delivery certified on at least 6+ processes to ensure processes are well defined." We request you to make it a level playing field for products with 6 processes certificate. By virtue of which this is favouring to the specific vendor. Pink Elephant is a renowned provider for ITIL certification for helpdesk tool.	As per RFP
516	2	GIS/FR/1.22	165	· Integration with external system such as State Remote Application Centre, State Disaster Management System, etc., if required; · Integration with Open Data System;	>Pls list the number of application to be integrated in State Remote Application Centre, State Disaster Management System, etc. >Which Open data system integration is planned for the project.	MSI to make its own assessment through a pre-proposal survey
517	2	EMS/TR/1.01	165	· In addition to hardware and software requirements as prescribed in this RFP, SI is required to also design size, supply, implement and maintain an Enterprise Management System (EMS). The EMS shall be able to support the proposed hardware and software components deployed over the tenure of the Contract. The EMS shall be capable of providing early warning signals to the Helpdesk Agents on the performance issues, and future infrastructure capacity augmentation. The EMS shall also support single pane / dashboard with visibility across multiple areas of applications for monitoring.	Requesting you to please update the clause as follows: "· In addition to hardware and software requirements as prescribed in this RFP, SI is required to also design size, supply, implement and maintain an Enterprise Management System (EMS). The EMS shall be able to support the proposed hardware and software components deployed over the tenure of the Contract. The EMS shall be capable of providing early warning signals to the Helpdesk Agents on the performance issues, and future infrastructure capacity augmentation. The EMS shall also support single pane / dashboard with visibility across multiple areas of applications for monitoring. EMS components must be from	As per RFP MSI may propose single or multiple OEM to cater to the functional requirement of the RFP

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					the same OEM." Justification: Proposing multiple system will bring along complexity and inconsistency in environment. EMS consists of multiple components. Having all these components from the same OEM will ensure that the components are pre-integrated and adequately tested and hence time to value realization is quick and issues of integration does not arise.	
518	2	EMS/TR/1.01	165	Proposed EMS solution should be ITIL processes for service delivery certified on at least 10+ processes to ensure processes are well defined.	The proposed ITSM tool should be certified for at least the following ITIL processes which are commonly used: Incident Management, Problem Management, Change Management, Service Level Management, Knowledge Management, Asset Management, Request Fulfilment, Availability Management, Service Catalog Management and Service Asset and Configuration Management (SACM). The certification should be from a globally recognized body. Justification: Multiple leading Service Management OEMs are listed under 'Pink Elephant' PinkVerify certifications website. This is the ideal way to demonstrate the top IT organizations for selection of mature IT service management solution.	As per RFP
519	2	EMS/TR/1.01	165	Proposed EMS must be ISO 27001 certified to ensure data and cyber security compliance	In addition to the OEM's certification for ISO 27001, the proposed applications for EMS should be ISO 27034-1 certified for security compliance. Justification: While ISO 27001 certification shows that the OEM organization follows	As per RFP

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					certain processes to deal with information security issues, it does not really assure you that the application(s) is/are risk free. ISO/IEC 27034 specifically deals with application security. Furthermore, application security is not only about protecting an application, but rather about protecting sensitive information involved by the use of an application. ISO/IEC 27034 provides clear guidance on why and how organizations can identify, define and verify the security on a sensitive applications. It also shows their conformance towards a measurable level of trust defined by ISO/IEC 27034. This is done so that no sensitive information can be accessed, modified or lost by any unexpected event or unauthorized person, internally or externally. Therefore, when ISO/IEC 27034 is well implemented and managed by an organization, it will not only help to provide expected and verifiable evidence to demonstrate that adequate protection of sensitive applications is in place, but it will also help to support the organization's Information Security Management System (ISMS) and the ICT security. Every organization has to protect sensitive information, such as information collected, computed, stored and communicated by their applications. Any breach or loss of sensitive information can produce an unacceptable impact. At a minimum it is imperative that software vendor organizations' ISO 27001 certification	

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					should also cover ISO/IEC 27034 standards.	
520	2	DCH/TR/30.01	153	Shall support Native data capacity of 100TB (uncompressed) expandable to 200TB (compressed).	Proposed appliance should be sized appropriately for backup of XXTB of (File System, Database & VM Data) as per below backup policies a. Daily Incremental Backup – retained for 4 weeks in disk based appliance b. Weekly Full Backup for all data types – retained for 1 month in disk based appliance c. Monthly Full Backups – Retained for 12 Months in the same appliance d. Yearly Full Backups - Retained for 5 years in the same appliance. The solution should be quoted with a minimum usable capacity of XX TB and should be scalable upto XXTB or higher for long term retention. Any additional capacity required as per above mentioned retention policy sizing needs to be provided by the bidder/OEM for an entire warranty period of the disk appliance. Note: - Department can replace XX with their actual data backup requirement so that bidders can quote accordingly Justification: We request department to look for Purpose Built Backup Appliance instead of Tape library to have the backup solution implemented as per industry standard of disk to disk backup.	As per RFP
521	2	EMS/TR/9.01	173	The proposed system shall enable the server room to centrally manage user access privileges and allow deploying baseline security polices so that the right	Requesting you to please move this to respective section in RFP. Justification: The requested functionality is not the feature of 'Traffic Analysis' instead it	As per RFP

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				people have access to the right information. It shall proactively secure access to data and applications located on Linux, UNIX and Windows system servers	is feature of Identity and Access Management Layer	
522	2	EMS/TR/9.01	173	The proposed solution shall keep historical rate and protocol data for a minimum of 12 months (most recent) in its current long term operating database. All data in that database shall have a maximum 15 minute window granularity without roll up. A user shall be able to select any 15 minute window over the last 12 months and display unique utilization and protocol data for every monitored interface.	Requesting you to please rephrase the clause to more generic like "The proposed solution shall keep historical rate and protocol data for a minimum of 12 months (most recent) in its current long term operating database. A user shall be able to select any time window over the last 12 months and display unique utilization and protocol data for every monitored interface." Justification: The time grain of 15 minutes is too small for 12 months of data to be presented in any format either in graph or tabular format. This requirement will require huge storage requirement and will overkill the cost of the project.	As per RFP
523	2	EMS/TR/9.01	173	The solution shall provide a central web based integration point reporting and able to report from a single console across 100,000 interfaces.	Requesting you to please confirm if the proposed NMS solution MUST have at least 3 deployments in Indian Government/ Public Sector, monitoring & managing 10,000+ network nodes in each of such deployments. Customer names, solution details and OEM undertaking needs to be provided at the time of bidding? Justification: To ensure that the proposed NMS/EMS is proven at the scalability required for the said project and is operational in the Indian Public Sector space and thereby avoid risk of being a test bed for solutions not known to scale up to the requisite levels.	As per RFP
524	2	EMS/TR/9.01	174	The proposed system shall be capable of automatically detecting anomalous behavior	Requesting you to please move this to 'SIEM' or 'Centralized AV and Anti-Spam' or	As per RFP

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				such as virus attacks or unauthorized application behavior.	other respective section in RFP. Justification: The requested functionality is not the feature of 'Traffic Analysis' instead it is feature of Security Layer	
525	2	GIS/FR/1.07	177	Data creation - Necessary Field Survey, collection from various sources, compilation, digitization, accurate geo-referencing of spatial & Image data, migration, data conversion, integration, Enterprise Geodatabase preparation (in any OGC format) & maintenance shall be carried out by MSI;	1) Please Clarify, who will going to prepare Base maps? 2) Who will provide going to provide all secondary departmental information?	1) MSI will prepare the base maps 2) MSI will collect the information from the concerned departments and RSCL shall facilitate in collecting the same
526	2	EMS/TR/15.03	180	Helpdesk- Integration with Services	Requesting you to please move these requirements into respective section for VOIP requirements in RFP. Justification: Specifications mentioned in this section are not generic EMS Helpdesk requirements, instead these are the Call Centre Helpdesk features like VoIP based EPABX, IVRS, Automatic Call Distribution (ACD), and Voice Logger Server.	As per RFP
527	2	EMS/TR/15.03	181	Able to perform prioritized call routing e. be highly available with hot standby and seamless failover in case of main server failure	Please confirm if the term 'Call' refers to a Trouble Ticket (Support Request / Incident) in the helpdesk system?	Yes
528	2	Disaster Recovery Centre	187	The storage at DRC shall be able to record the feed from all cameras for a minimum of 15 Days.	In BOQ Cloud is mentioned as 20% active, kindly clarify do we need to consider only 20% camera and not all cameras?	100% camera to be covered

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529	2	Disaster Recovery Centre	187	The storage at DRC shall be able to record the feed from all cameras for a minimum of 15 Days. The Data Recovery Centre will be the backup location for all application servers in the data centre.	Kindly confirm its Continuous Recording or only when disaster	It is real-time
530	2	Scope of work copy; Disaster Recovery Centre	187	The storage at DRC shall be able to record the feed from all cameras for a minimum of 15 Days. The Data Recovery Centre will be the backup location for all application servers in the data centre.	From the given statement it can be derived that the DR shall be 100% replica of DC. However refereeing Volume 1, 9.15. Proposed Bill of Material - DR Cost at 20% active i.e. 20% capacity of DC. Please clarify the ambiguity on DR capacity.	100% Replica in functionality, and 30% in capacity in Active-Active mode
531	2	DR/TR/1.3	188	The proposed solution should be able to conduct DR Drills from a centralized location.	Please confirm, how many DR drills to be conducted yearly by the bidder?	2 (Two)
532	2	DR/TR/1.8	189	MSI shall be responsible for providing Cloud service for storing all applications at DR [minimum 30% production capacity	30% load on DR is not practical so looking at other smart city RFP 's request you to please increase it to 50%	As per RFP
533	2	DR/TR/1.8	189	MSI shall be responsible for providing Cloud service for storing all applications at DR [minimum 30% production capacity, RTO – 120 mins, RPO – 15 mins	RTO and RPO time mentioned here is practically not possible. Request to revise it to RTO-240 mins, RPO- 60 mins Please revise RPO and RTO to 60 mins and 240 mins respectively. This is in consistence with other smart cities in the region.	As per RFP
534	2	DR/TR/1.8	189	MSI shall be responsible for providing Cloud service for storing all applications at DR [minimum 30% production capacity, RTO – 120 mins, RPO – 15 mins],	1) As per the clause, we understand that 30% of server and storage to be considered in DR and it is to be stored for 15 days. Kindly confirm

2) Please clarify the meaning of DR Cost at 20% active | As per RFP |
| 535 | 2 | Network Connectivity on Lease \| Scope of Work | 190 | Adding new location – whenever a new location is decided to be added by the RSCL, an order will be placed with MSI at the contracted price. MSI shall carry out | We request you to kindly amend new link delivery time to min. 3-4 weeks' time | As per RFP |

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				site-survey at new location for feasibility of location over wired connectivity. MSI would be required to implement and commission the location within 2 weeks from the date of work order.		
536	2	Scope of Work | Network Connectivity on Lease	190	The network should be capable of providing bandwidth on demand for planned as well as for unplanned activities.	MSI will consider bandwidth as per Specification given and cost for same. Any unplanned requirement shall be met with additional cost, kindly confirm	As per RFP
537	2	Scope of Work | Network Connectivity on Lease	190	Network shall have redundant connectivity, paths to acquire data/ signal / voice / video and be able to reach all controllable devices on a real time basis instantly for necessary commands and controls.	We understand that Network shall have redundant connectivity for core and aggregation. Kindly confirm	Yes
538	2	Scope of Work | Network Connectivity on Lease	190	Total bandwidth of minimum 10 Gbps for the entire network.	Total bandwidth of minimum 10 Gbps for the entire network and in BOQ it is as per requirement Please allow it as per bidder design	As per RFP However, MSI may make its own assessment
539	2	Adaptive Traffic Signal Control System | Scope of Work	198	The MSI should implement adaptive LED lighting strips before the Zebra crossings in respective junctions. These lighting strips should be synchronised with the adaptive traffic signals.	This is very new technology getting implemented in experimental basis and not Proven and having a lot of wear and tear. Also these has to be removed and reinstalled whenever there is relaying of road is there during next 5 years which is very uncertain. Thus request to remove this from RFP.	As per RFP
540	2	ATCS/FR/1.1	200	Non-intrusive video-based traffic controller/system should be used to analyze the volume of traffic at junction to manage the traffic lights.	Non-intrusive video-based traffic controller should be used to analyze the volume of traffic at junction to manage the traffic lights. The traffic controller shall be able to take input of vehicle by vehicle data for counts and classification in addition to the vehicle presence data from the detectors.	As per RFP

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					Justification: This is in accordance to the traffic detectors which have count & classification data as well	
541	2	ATCS/FR/1.1	200	Non-intrusive video-based traffic controller/system should be used to analyze the volume of traffic at junction to manage the traffic lights.	Recommend use of 4D radars Justification: Radars have a long range of 175 meters and perform in adverse weather conditions like fog, dust heavy rain with no maintenance cost They can provide simultaneous tracking of 125 vehicle and provide data refresh in 75 ms and help with advanced ATCS systems along with various other traffic data	As per RFP However, MSI may provide equivalent or better solution to meet the functional requirement of the RFP
542	2	ATCS/FR/1.1	201	The detector shall be able to detect the presence of vehicles near stop-line in non-lane based mixed traffic flow conditions	The detector shall be able to generate vehicle by vehicle data for counts and classification & have atleast 8 vehicle presence zones. Justification: This is for better understanding of the traffic and will result in better optimisation by using simulation	As per RFP
543	2	ATCS/FR/1.1	201	Wireless Slave Controller/system shall operate on command of Controller/system. The Vehicle detector interface shall support inductive loop/Camera/microwave based vehicle detection.	The Vehicle detector interface shall support inductive loop/camera/microwave based vehicle detection. Justification: No wireless system is proposed due to interference and prevent hacking	As per RFP However, MSI may provide equivalent or better solution to meet the functional requirement of the RFP
544	2	ATCS/FR/1.1	201	The controller/system shall be able to interface with a wide variety of detectors using an industry standard open collector interface	The controller/system shall be able to interface with a wide variety of detectors using an industry standard open collector interface as well can communicate through Ethernet port.	As per RFP However, MSI may provide equivalent or

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					Justification: In accordance to the traffic detectors specifications.	better solution to meet the functional requirement of the RFP
545	2	ATCS/FR/1.1	202	The Master Controller/system shall provide dedicated ATCS interface.	The controller shall provide dedicated ATCS interface.\n\nJustification: No wireless system is proposed due to interference and prevent hacking	As per RFP\n\nHowever, MSI may provide equivalent or better solution to meet the functional requirement of the RFP
546	2	ATCS/FR/1.1	202	The Master Controller/system cabinet shall have provision to install video detection card for vehicle detection dedicated cameras.	Kindly delete this clause\n\nJustification: Not needed as the video detectors will give processed data from industrial PC to the controller directly via Ethernet port.	As per RFP
547	2	ATCS/FR/1.1	202	The controller/system shall allow interfacing with the ATCS application using an industry standard protocol such as UTMC/UG405 or NTCIP. No proprietary communications protocol shall be allowed, in any case.	The controller shall allow interfacing with the ATCS application using an industry standard protocol such as UTMC/UG405 only. No proprietary communications protocol shall be allowed, in any case.\n\nJustification: No wireless system is proposed due to interference and prevent hacking	As per RFP
548	2	ATCS/FR/1.1	201	Wireless Slave Controller/system shall operate on command of Controller/system. The Vehicle detector interface shall support inductive loop/Camera/microwave based vehicle detection.	Wireless Controller are not suitable as the junctions are in the city, where the traffic congestion is high and will therefore have issues related to communication between master and slave controller due to low radio	As per RFP\n\nHowever, MSI may provide equivalent or better solution

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					frequency. Request you to consider Wired Controller Solution instead of Wireless	to meet the functional requirement of the RFP
549	2	ATCS/FR/3.1	202	The application shall interface with a popular microscopic traffic flow simulation software for pre and post implementation analysis and study of the proposed ATCS control strategy.	The application shall be supplied along with a interfaced popular microscopic traffic flow simulation software for pre and post implementation analysis and study of the proposed ATCS control strategy. Justification: This is to avoid OEMs who will say that their system can interface however the same was not asked to be supplied along with ATCS in this tender.	As per RFP
550	2	ATCS/FR/1.1	202	The controller/system shall allow interfacing with the ATCS application using an industry standard protocol such as UTMC/UG405 or NTCIP. No proprietary communications protocol shall be allowed, in any case.	1. UG405 is the standard for ITS applications in UK and Europe. In US the standard is NTCIP. No certifying agency or testing platform for the UG405 or NTCIP compliance is available in India. 2. Purpose of specifying standards for ITS application is the interoperability of multiple applications on single platform. For this purpose Govt. of India is considering one M2M for the ITS applications in India, and usage of UG405 is not expected in the country. NITI Aayog is in the process of preparing a policy document on de-facto standards for Smart Cities. 3. To achieve Integration with other ICT components, ATCS API can be shared. Therefore, we request you to remove the specific clause.	As per RFP
551	2	ATCS/FR/3.1	203	ATCS application should be capable of displaying live video from CCTV cameras	Pls allow to view CCTV viewing from Command and control software or through	MSI to design the solution to

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				that have been deployed for traffic surveillance.	Video management system to avoid duplicity of functionality	meet the RFP requirements
552	2	ATCS/FR/3.1	203	ATCS application should be capable of displaying live video from CCTV cameras that have been deployed for traffic surveillance.	Not able to understand why ATCS application would display live video from CCTV Cameras as ATCS Application has no correlation with Traffic Surveillance. Kindly delete the clause.	As per RFP
553	2	ATCS/FR/3.2	203	Live video feed – The operators shall be able to see the live video feed from CCTV cameras that have been deployed for traffic surveillance.	Not able to understand why ATCS application would display live video from CCTV Cameras as ATCS Application has no correlation with Traffic Surveillance. Kindly delete the clause.	As per RFP
554	2	ATCS/FR/3.2	203	Live video feed – The operators shall be able to see the live video feed from CCTV cameras that have been deployed for traffic surveillance	Live video feeds from the CCTV cameras deployed for traffic surveillance will be seen through ICCC. Please confirm.	Yes
555	2	ATCS/TR/1.2	205	The controller/system shall be powered through solar power with 6-9 hours power backup and adhering to the SLAs.	The controller/system shall be powered through solar power along with backup from the mains with 6-9 hours power backup and adhering to the SLAs. Justification: Backup from mains will ensure system is up during cloudy weather as well	As per RFP
556	2	ATCS/TR/1.1	205	Number of signal plans: 32 minimum	Indian standard Technology developed by CDAC which is customized for Indian roads, is using 24 plans which are more than sufficient for any typical Signalised Intersection thus request to change as below, " Number of signal plans: 24 minimum " .	As per RFP
557	2	ATCS/TR/1.2	205	The controller/system shall be powered through solar power with 6-9 hours power backup and adhering to the SLAs.	We understand that power backup of 6-9 hours is through combination of raw power and solar both.	As per RFP
558	2	ATCS/TR/4.1	206	Solar Panels and power back up of 6-9 hours and adhering to the SLAs - quantity	Kindly clarify 6-9 hours of battery backup is mandatory or not. 9 hours of solar backup	As per RFP

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				of solar module and battery bank to be calculated keeping in view complete intersection load with Power Backup	for complete intersection will increase the cost and the physical passive infra including batteries and panels. Kindly clarify whether we can consider the power backup to meet the SLA requirements.	
559	2	ATCS/TR/8.3	207	The machine vision system hardware shall consist of three components: - Camera based vehicle detection shall be provided consisting of black & white detection camera, 640x480 resolution, 20 FPS minimum frame rate. - A modular cabinet interface unit - A communication interface panel	The mentioned detection camera resolution i.e. 640x480 is not sufficient because of the following reasons: 1) In order to cover upto 4 lanes, cameras detection resolution should be atleast 2520x1980 (min. 5 MP) to meet the desired requirement and it should be day-night cameras with color in day and monochrome at night. 2) Live view at Command control centre.	Please refer to the Corrigendum
560	2	ATCS/TR/8.4	207	The lens type shall be wide angle lens for stop line detection up to 4 lanes minimum.	The mentioned detection camera resolution i.e. 640x480 is not sufficient because of the following reasons: 1) In order to cover upto 4 lanes, cameras detection resolution should be atleast 2520x1980 (min. 5 MP) to meet the desired requirement and it should be day-night cameras with color in day and monochrome at night. 2) Live view at Command control centre.	Please refer to the Corrigendum
561	2	ATCS/TR/8.16	207	Placement of detection zones shall be by means of a laptop with Windows 10 or other standard operating system as applicable, a wireless keyboard and a wireless mouse. The laptop's monitor shall be able to show	All the activities and requirement mentioned in clause 8.16, 8.17 and 8.18 will be done from Command control centre, hence all these points are not required and should be removed.	As per RFP

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				the detection zones superimposed on images of traffic scenes		
562	2	ATCS/TR/8.17	207	The detection zones shall be created by using a mouse to draw detection zones on the Laptop's monitor. Using the mouse and keyboard it shall be possible to place, size, and orient detection zones to provide optimal road coverage for vehicle detection. It shall be possible to download detector configurations from the Laptop to the field device.	All the activities and requirement mentioned in clause 8.16, 8.17 and 8.18 will be done from Command control centre, hence all these points are not required and should be removed.	As per RFP
563	2	ATCS/TR/8.18	208	The computer's mouse and keyboard shall be capable to edit previously defined detector configurations to permit adjustment of the detection zone size and placement, to add detectors for additional traffic applications.	All the activities and requirement mentioned in clause 8.16, 8.17 and 8.18 will be done from Command control centre, hence all these points are not required and should be removed.	As per RFP
564	2	Minimum Functional Requirements | ANPR & RLVD	211	Minimum Functional Requirement	There are no mention about the numbers of Lane to be covered by ANPR and RLVD system. The Lanes are very important parts to select the Camera for the better performances	As per RFP
565	2	TVDS/FR/1.13	212	The system shall at least have 95% of violation detection accuracy as the minimum accuracy level irrespective of the type of violation, time and condition of the violation in the field.	The detection accuracy is subjected to environmental condition, day/ night time, camera's calibration, font size, font type etc. Hence requesting to revise the clause as - The system shall at least have an accuracy of 80% or better during the day time and 60% or better during the night time with a standard number plate.	As per RFP
566	2	TVDS/FR/4.3	214	The speed violations system shall be installed on mid-blocks or designated areas as identified during design stage.	1) As per the clause, we understand that SVD is not be installed on the given 29 ITMS Junctions. Kindly confirm	1) Yes 2) Speed Violation Detection System is

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					2)Kindly share the no of locations where SVD is to be considered	proposed to be installed at 16 locations
567	2	TVDS/FR/5.1	214	The non-intrusive system shall identify the violation where either the Free Left is blocked by other vehicles or violation occurred when no free left is allowed.	To achieve this functionality, additional one camera with pole needs to be installed. Kindly include the same in the BoQ. Also suggest in how many locations it is to be installed.	MSI to ascertain the same in consultation with the respective department
568	2	TVDS/FR/12.4	215	The system shall be very robust to variation in License Plates in terms of font, size, contrast and colour and work with good accuracy.	The variation in fonts, size etc. will lead to reduced accuracy in detection as well as in OCR. Request you to limit this requirement to detect, capture and convert the standard license plates (HSRP or equivalent straight English fonts)	As per RFP
569	2	TVDS/FR/12.7	215	The system shall be able to process and read number plates of vehicles with speeds up to 120 km/h with the minimum specified accuracy requirement.	Please note that 120 KMPH speed is not practical in city conditions. Hence requesting to revise the speed limit to 60 - 80 KMPH	As per RFP
570	2	TVDS/FR/13.42	219	The e-challan system software shall at a minimum comprise the following - - Postal dispatches - Postal Statement - Postal returns and return info feeding	The scope of e-Challan system is up to generation of the challan for the identified violators. All the postal related activities such as dispatch, postal statements, and postal returns shall come under the scope of MSI or Employer. Please confirm	As per RFP
571	2	TVDS/TR/1.25	220	IP66 and IK10	IP67 and IK10 Reason: Since it is outdoor it should be IP 67	Please refer to the Corrigendum
572	2	TVDS/TR/1.28	220	50m or more (External only)	100m or more (Internal/External) Reason: We should be able to 100 meter at least in outdoor application	Please refer to the Corrigendum

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573	2	TVDS/TR/1.3	220	Shutter speed - 1s to 1/30,000s	Shutter speed required for Number capture is within the limit of 1/10000s and as we go on increasing the shutter speed, light capture ability of camera decreases and needs bright light to capture the details. Request you to please consider range of 1s to 1/10000s.	Please refer to the Corrigendum
574	2	TVDS/TR/1.19	220	Security - User Authentication, water mark, IP address Filtering	Watermarking is part of VMS.	Please refer to the Corrigendum
575	2	TVDS/TR/1.24	220	Built-in Micro SD/SDHC/SDXC slot, up to 128 GB. The vendor should provide 128GB SD Card for the same.	Built-in Micro SD/SDHC/SDXC slot, up to 256 GB. The vendor should provide 128GB SD Card for the same. Reason: It should be 256 GB to store at least 3 days	As per RFP However, MSI may provide equivalent or better solution to meet the functional requirement of the RFP
576	2	TVDS/TR/2.2	221	H.264/H.265, MJPEG/ MPEG-4 or better	H.264 is the old video compression technology, whereas, H.265 is the latest video compression technology. This compression technology which is being used by many leading brands and helps to reduce more than 50% bandwidth and storage consumption, keeping the same image level performance as H.264 Thus, reducing the load over network and storage complexity. Thus will be more economical solution. Thus, kindly make it mandatory for the quoting H.265 compatible for the CCTV Camera. Thus requesting you to amend the clause to Video Compression-H.264, H.265 ,MJPEG/ MPEG-4 or better	As per RFP

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577	2	TVDS/TR/2.13	221	Audio Capture Capability, G.711, G.726	Audio Capture Capability, G.711/G.726	Please refer to the Corrigendum
578	2	TVDS/TR/2.18	221	NEMA 4X / IP-66, IK10 rated	IP67 and IK10 Reason: Since it is outdoor it should be IP 67	Please refer to the Corrigendum
579	2	TVDS/TR/2.14	221	Micro SDXC up to 64GB (Class 10) In the event of failure of connectivity to the central server the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the server recording such that no manual intervention is required to transfer the SD card based recordings to server.	MicroSDXC/Micro SD card support up to 256GB. MSI should load 128GB (Class 10) card. In the event of failure of connectivity to the central server the camera shall record video locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically merged with the server recording such that no manual intervention is required to transfer the SD card based recordings to server. Reason: It should be able to store at least 3 days recording	As per RFP However, MSI may provide equivalent or better solution to meet the RFP requirements
580	2	TVDS/TR/2.20	221	Minimum 2 Input & 1 Output contact for 3rd part interface	One Alarm input is sufficient so serve the purpose, also in order to economic solution, requesting to amend the clause to Alarm I/O-Minimum 1 Input & 1 Output contact for 3rd part interface	As per RFP
581	2	TVDS/TR/1.29	221	Regulatory- CE/FCC/EN/BIS/IS and UL certified	Requesting you to accept: CE, FCC & UL/EN/BIS • UL, EN and IS (Indian Standard) are equivalent safety standards, all of them being derived from IEC (International Electro-technical Commission), who prepare and publish international standards for Electrical and Electronic Equipment. • The equivalence of UL, EN, IS and IEC is also clearly mentioned in the letter from	As per RFP

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					Joint Secretory, DeitY to Joint Secretory MHA. (Annexure -III) • Ministry of Urban Development (MoUD) issue a order No: K-14012/101(17)/2017-SC-III-A. Where it state that Indian company should not restrict due to foreign certification asked in tender. MoUD Policy Enclosed (Annexure: IV) • Due to security reasons, Ministry of Electronics and Information Technology (MeitY) has notified a Compulsory Registration Order (CRO) for Electronic Equipment. CCTV Camera and Recorders have been covered under this order from 23rd May' 2018 and the Indian Standard, i.e. IS 13252- Part1 has been made mandatory for CCTV Camera and CCTV Recorders. BIS has adopted IS 13252 -1 as the Indian Standard. (Annexure -V) • The Government has issued Public Procurement (Preference to Make in India) Order 2017 vide the Department of Industrial Policy and Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017 which is further revised vide No. P-4502 l/2/2017-PP (BE-II) dated 28.05.2018 to encourage 'Make in India' states on Page 3, point 10: " For any telecom product, service and work as in Table-A, the procuring entity should not specify to bidder to mandatory qualify any foreign eligibility specifications or certification(s) issued by any foreign testing/security lab(s)" (Annexure -VI) • Therefore, BIS shall be the only	

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					certification asked for CCTV cameras and Recorders.	
582	2	TVDS/TR/2.20	221	Alarm I/O : Minimum 2 Input & 1 Output contact for 3rd part interface	Alarm 1 input/1 output are sufficient for Red Light Violation Detection. We kindly request you the modify the clause as under "Minimum 1 Input & 1 Output contact for 3rd party interface"	As per RFP
583	2	TVDS/TR/2.21	221	Certification- UL/EN, CE,FCC	Requesting you to accept: CE, FCC & UL/EN/BIS • UL, EN and IS (Indian Standard) are equivalent safety standards, all of them being derived from IEC (International Electro-technical Commission), who prepare and publish international standards for Electrical and Electronic Equipment. • The equivalence of UL, EN, IS and IEC is also clearly mentioned in the letter from Joint Secretary, DeitY to Joint Secretary MHA. (Annexure -III) • Ministry of Urban Development (MoUD) issue a order No: K-14012/101(17)/2017-SC-III-A . Where it state that Indian company should not restrict due to foreign certification asked in tender. MoUD Policy Enclosed (Annexure: IV) • Due to security reasons, Ministry of Electronics and Information Technology (MeitY) has notified a Compulsory Registration Order (CRO) for Electronic Equipment. CCTV Camera and Recorders have been covered under this order from 23rd May' 2018 and the Indian Standard, i.e. IS 13252- Part1 has been made mandatory for CCTV Camera and CCTV Recorders. BIS has adopted IS 13252 -1 as the Indian Standard. (Annexure -V)	As per RFP

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					• The Government has issued Public Procurement (Preference to Make in India) Order 2017 vide the Department of Industrial Policy and Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017 which is further revised vide No. P-4502 I/2/2017-PP (BE-II) dated 28.05.2018 to encourage 'Make in India' states on Page 3, point 10: " For any telecom product, service and work as in Table-A, the procuring entity should not specify to bidder to mandatory qualify any foreign eligibility specifications or certification(s) issued by any foreign testing/security lab(s)" (Annexure -VI) • Therefore, BIS shall be the only certification asked for CCTV cameras and Recorders.	
584	2	TVDS/TR/2.21	221	Certification - UL/EN, CE, FCC	UL and EN optional will keep the certification open and substandard product will be quoted.	As per RFP
585	2	TVDS/TR/3.6	222	Certificate CE, FCC, UL/EN	Requesting you to accept: CE, FCC & UL/EN/BIS • UL, EN and IS (Indian Standard) are equivalent safety standards, all of them being derived from IEC (International Electro-technical Commission), who prepare and publish international standards for Electrical and Electronic Equipment. • The equivalence of UL, EN, IS and IEC is also clearly mentioned in the letter from Joint Secretory, DeitY to Joint Secretory MHA. (Annexure -III) • Ministry of Urban Development (MoUD) issue an order No: K-14012/101(17)/2017-SC-III-A. Where it state that Indian	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					company should not restrict due to foreign certification asked in tender. MoUD Policy Enclosed (Annexure: IV) • Due to security reasons, Ministry of Electronics and Information Technology (MeitY) has notified a Compulsory Registration Order (CRO) for Electronic Equipment. CCTV Camera and Recorders have been covered under this order from 23rd May' 2018 and the Indian Standard, i.e. IS 13252- Part1 has been made mandatory for CCTV Camera and CCTV Recorders. BIS has adopted IS 13252 -1 as the Indian Standard. (Annexure -V) • The Government has issued Public Procurement (Preference to Make in India) Order 2017 vide the Department of Industrial Policy and Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017 which is further revised vide No. P-4502 l/2/2017-PP (BE-II) dated 28.05.2018 to encourage 'Make in India' states on Page 3, point 10: " For any telecom product, service and work as in Table-A, the procuring entity should not specify to bidder to mandatory qualify any foreign eligibility specifications or certification(s) issued by any foreign testing/security lab(s)" (Annexure -VI) • Therefore, BIS shall be the only certification asked for CCTV cameras and Recorders.	
586	2	TVDS/TR/3.3	222	Automatic on/off operation	Request to modify the clause as under " Power : Automatic on/off operation POE, DC/AC "	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
587	2	TVDS/TR/3.6	222	CE, FCC, UL/EN	You are requested to amend the clause as "CE/FCC/UL/EN" as the certification requirement are OEM specific.	As per RFP
588	2	TVDS/TR/3.6	222	CE, FCC, UL/EN	Request to modify the clause as CE,FCC,UL	As per RFP
589	2	TVDS/TR/5.7	224	Form Factor Rack Mount/DIN Rail	Junction Box can't be Rack Mount. It shall be corrected to Form factor shall be Pole Mount or Floor Mount	MSI to decide any form factor
590	2	TVDS/TR/8.18	225	Bypass Automatic, Manual Bypass Switch	Manual Bypass Switch shall be excluded as not a standard parameter on LCD in all reputed OEMs	As per RFP
591	2	TVDS/TR/8.20	225	UPS for Field Location: 1) IP 55 is requested for Overall Protection	As per OEM, IP 20 is standard	As per RFP
592	2	TVDS/TR/8.20	225	Overall Protection - IP 55	UPS rating are IP20 protection As IP 55 rating is for Junction BOX hence it should be separated from UPS product line.	As per RFP
593	2	Safety/FR/1.05	233	Cameras shall have an integral receiver/driver that shall be capable of controlling pan-tilt, zoom and focus locally and also remotely from the Integrated Command & Control Centre (ICCC)	Request to modify the clause as PTZ shall support pan-tilt, zoom and focus features locally and also remotely from the Integrated Command & Control Centre (ICCC) while fixed camera shall support zoom and focus features locally and also remotely from the Integrated Command & Control Centre (ICCC)	As per RFP
594	2	Safety/FR/1.06	233	All cameras shall support real-time video content analysis	Definition of "Real-time" varies and can be used to convert video analytics into "image analytics" by analysing only one frame/second. We request you to define the word "real-time" by way of frames per second i.e. 25FPS or 30FPS	Analytics to work real time on all 30 Frames/second of CCTV
595	2	Safety/FR/2.01	233	The surveillance system shall support following Analytics based on Artificial Intelligence having min 85% accuracy for the Cameras: · Auto Tracker: To detect and track	There are analytics use case mentioned at 3 different sections of the RFP page no, 20, 233 and 301, We understand qty 4500 nos given in RFP BOQ is combination of all, kindly confirm	Yes, the understanding is correct

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				movement in the field of view · Adaptive Motion Detection: To detect and track object that enter a scene and then triggers an alarm when the object enter a user-defined zone · Abandoned Object: To detect objects placed within a defined zone and triggers an alarm if the object remains in the zone longer than the user-defined time allow · Camera Sabotage: Triggers an alarm if the lens is obstructed by any means · Directional Motion: Generates an alarm in a high traffic area when a person or object moves in a specified direction · Object Removal: To triggers an alarm if the object is removed from a user-defined zone · Stopped Vehicle: To detect vehicles stopped near a sensitive area longer than the user-defined time allows · Intrusion Detection – Detect intrusion		
596	2	Safety/FR/2.01	233	The surveillance system shall support following Analytics based on Artificial Intelligence having min 85% accuracy for the Cameras on edge devices: Auto Tracker: To detect and track movement in the field of view · Adaptive Motion Detection: To detect and track object that enter a scene and then triggers an alarm when the object enter a user-defined zone · Abandoned Object: To detect objects placed within a defined zone and triggers an alarm if the object remains in the zone longer than the user-defined time allow	Please allow OEM/Bidder to choose any appropriate technology/algorithm (edge or server based) to meet the asked Functional Requirements	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				· Camera Sabotage: Triggers an alarm if the lens is obstructed by any means · Directional Motion: Generates an alarm in a high traffic area when a person or object moves in a specified direction · Object Removal: To triggers an alarm if the object is removed from a user-defined zone · Stopped Vehicle: To detect vehicles stopped near a sensitive area longer than the user-defined time allows · Intrusion Detection – Detect intrusion		
597	2	Safety/FR/2.09	234	The city wide surveillance system needs to have the capability to deploy intelligent video analytics software on any of selected cameras. This software should have the capability to provide various alarms & triggers. The solution should offer following triggers from Day1: · Parking Violation · Wrong Direction · People loitering · Unattended Object · Crowd detection · People tracking	The said use-cases are also a part of AI based video analytics explained in the later section and this section doesn't have "AI based Intelligent Video Analytics Software" mentioned which may eventually result in city getting these use-cases without benefits of AI. Our request is to change "intelligent video analytics" to "AI based intelligent video analytics" for better outcome for city	Please refer to the Corrigendum
598	2	Safety/FR/2.09	234	The city wide surveillance system needs to have the capability to deploy intelligent video analytics software on any of selected cameras. This software should have the capability to provide various alarms & triggers. The solution should offer following triggers from Day1: · Parking Violation · Wrong Direction · People loitering · Unattended Object	Please note that these use cases are already mentioned in Artificial Intelligence based analytics, Machine Learning section. Hence there will not separate sizing for such use cases. Please clarify if the understanding is correct.	Please refer to the Corrigendum

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				· Crowd detection · People tracking		
599	2	Safety/FR/3.01	234	The 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.	The said use-cases are also a part of AI based video analytics explained in the later section and this section doesn't have "AI based Intelligent Video Analytics Software" mentioned which may eventually result in city getting these use-cases without benefits of AI. Our request is to change "leading-edge face recognition technology" to "AI based face recognition technology" for better outcome for city	Please refer to the Corrigendum
600	2	Safety/FR/3.03	234	The user interface of the facial recognition system should have a report management tool with/ 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.	As per RFP
601	2	Safety/FR/3.06	235	The algorithm for facial recognition or the forensic tool should be able to recognize partial faces with varying angles	Generally, as per the standard process of face detection and recognition is that the input device will calculate the minimum pupil distance of the face and process the snaps to give the accurate result, the accuracy level will be affected in case of partial faces where the minimum pupil distance cannot be viewed for further process. Hence kindly amend this clause as "The algorithm for facial recognition or the	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					forensic tool should be able to recognize minimum partial faces with minimum varying angles"	
602	2	Safety/FR/5.12	236	The system shall support full two-way audio between Client systems and remote devices i.e. CCTV	In city like scenario, two way audio do not works as there are lot of environmental noises. As PA system is already in place thus audio in cameras should be removed.	As per RFP
603	2	Safety/FR/6.11	237	Recording failover shall be standard without need for additional license and/or hardware.	Generally recording failover needs additional hardware or license or Clustering. Kindly confirm	As per RFP
604	2	Safety/FR/6.03	237	Central Application Server shall allow user to view live video stream.	Kindly consider: Central Application Server shall allow user to view live video stream. Also the application 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	As per RFP
605	2	Safety/FR/6.19	237	Users shall be able to save the current zoom/scroll position as a camera view (virtual preset).	Kindly Consider: Users shall be able to save the current zoom/scroll position as a camera view (virtual preset). Up to 40 Virtual Cameras should support to view, record and playback the virtual views from one single camera.	As per RFP
606	2	Safety/FR/6.20	238	VMS shall allow the display of analytics levels on video wall.	Kindly Consider: VMS shall allow the display of analytics levels on video wall. The video analytics shall have an easy to use 3D calibration tool 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 (Picture of 3 D calibration tool of the Software to be	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					attached with the tender document as proof of the same)	
607	2	Safety/FR/6.33	240	Motion Search · Users shall be able to adjust the motion threshold used for thumbnails and for moving playback to next/previous motion. · It shall be possible to combine motion search modes to further refine the search. · Users shall be able to adjust the speed and granularity of the motion search	Please elaborate the mentioned use case for a better understanding	Motion Search means the object moving from one place to another within the city
608	2	Safety/FR/6.36	241	Incident Export: · Users shall be able to check and authenticate digital watermarks embedded within exported clips.	Kindly Consider: · Users shall be able to check and authenticate digital watermarks embedded within exported clips. There should be data encryption of 26bit AES from server to server and server to client to secure system from cyber-attack. Video should Export in Secured export forms (SEF) with password protection up to 20 alphanumeric.	As per RFP
609	2	Safety/FR/6.42	242	Users shall be able to specify the transport protocol to be used for recording (TCP, UDP, and Multicast).	Kindly Consider: Users shall be able to specify the transport protocol to be used for recording (TCP, UDP, Multicast, Thrucast, MAX smooth feature for bandwidth management).	As per RFP
610	2	Safety/FR/6.58	242	Shall support · Multiple alarm inputs (detectors) to be grouped into an alarm zone.	Kindly Consider: Shall support · Multiple alarm inputs (detectors) to be grouped into an alarm zone. It shall possible to "silence" alarms for a desired time period Ranging from 5 Minutes till 24 Hours or more. This is useful if alarms are unintentionally active all the heavy wind or rain.	As per RFP
611	2	Safety/FR/6.73	243	Shall allow an alarm procedure document (.html, text or URL) to be associated with a site or to an individual alarm zone. This	As per RFP, all systems (e.g. VMS, ITMS, etc.) will be integrated with ICCC where the SOP will be already defined in the	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				procedure document shall be displayed when an alarm happens.	published document. Further course of action of any alarm will be defined with the help of incident management system. Hence requesting to remove the clause form Video Management System's scope.	
612	2	Safety/FR/6.81	243	Shall clearly mark black screen monitoring viewing windows as being distinct from normal live view windows through background colour and icon.	Please elaborate the mentioned use case for a better understanding	As per RFP
613	2	Safety/FR/6.153	247	Shall have an option to require all users to re-enter their password when logging out.	This clause contradicts with the clause (page no. 247) "Safety/FR/6.152 - Shall allow users to log out and log in without closing the application." Thus request to remove the clause Safety/FR/6.153.	As per RFP
614	2	Safety/FR/6.153	247	Shall have an option to require all users to re-enter their password when logging out.	To be removed: This is not a generic feature of the Video Management Software. This is vendor specific and doesn't apply to all the industry leaders of the VMS software. All the system settings details will be remembered during log off.	As per RFP
615	2	Safety/FR/6.208	249	The Video Management System · Should have Mobile device/Tablet device client software (Supporting Android, iOS and Windows Mobile/Surface). · Mobile client should be controlled and configured through central software, capable of live streaming the video from mobile client to Video Management System. · Mobile client should provide UI over mobile to view cameras deployed across city, select particular camera and view the live video stream.	Now a days no one uses windows mobile/surface thus remove windows client software for these platform.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				· Mobile client should provide role based access that can be configured for users to view and control particular cameras. · Should be able to support Min 10 mobile clients and 15 Tablets without additional cost and scalable up to 500.		
616	2	Safety/FR/6.208	249	The Video Management System ·Should have Mobile device/Tablet device client software (Supporting Android, iOS and Windows Mobile/Surface).	Kindly Consider: The Video Management System ·Should have Mobile device/Tablet device client software (Supporting Android or iOS or Windows Mobile/Surface).	As per RFP
617	2	Safety/TR/1.05	250	PTZ Camera - Lens Auto-focus, 4.3 - 129 mm or Better (corresponding to 30x)	In smart city , when the cameras are installed at the height of 5-10 meters , higher value at upper side is good thus request to allow 4.5 to 135 mm lens corresponding to 30x	As per RFP
618	2	Safety/TR/1.14	250	Casing - NEMA 4X / IP 66 rated	NEMA 4X standard is for corrosion resistance whereas IP 66 is for ingress protection. Hence both cannot be or/either.	Please refer to the Corrigendum
619	2	Safety/TR/1.15	250	Certification - UL/EN, CE, FCC	UL and EN optional will keep the certification open and substandard product will be quoted.	As per RFP
620	2	Safety/TR/1.15	250	Certification UL/EN,CE,FCC	Requesting you to accept: CE, FCC & UL/EN/BIS • UL, EN and IS (Indian Standard) are equivalent safety standards, all of them being derived from IEC (International Electro-technical Commission), who prepare and publish international standards for Electrical and Electronic Equipment. • The equivalence of UL, EN, IS and IEC is also clearly mentioned in the letter from Joint Secretory, DeitY to Joint Secretory MHA. (Annexure -III) • Ministry of Urban Development (MoUD) issue an order No: K-14012/101(17)/2017-	As per RFP

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					SC-III-A. Where it state that Indian company should not restrict due to foreign certification asked in tender. MoUD Policy Enclosed (Annexure: IV) • Due to security reasons, Ministry of Electronics and Information Technology (MeitY) has notified a Compulsory Registration Order (CRO) for Electronic Equipment. CCTV Camera and Recorders have been covered under this order from 23rd May' 2018 and the Indian Standard, i.e. IS 13252- Part1 has been made mandatory for CCTV Camera and CCTV Recorders. BIS has adopted IS 13252 -1 as the Indian Standard. (Annexure -V) • The Government has issued Public Procurement (Preference to Make in India) Order 2017 vide the Department of Industrial Policy and Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017 which is further revised vide No. P-4502 I/2/2017-PP (BE-II) dated 28.05.2018 to encourage 'Make in India' states on Page 3, point 10: " For any telecom product, service and work as in Table-A, the procuring entity should not specify to bidder to mandatory qualify any foreign eligibility specifications or certification(s) issued by any foreign testing/security lab(s)" (Annexure -VI) • Therefore, BIS shall be the only certification asked for CCTV cameras and Recorders.	
621	2	Safety/TR/1.16	250	Minimum 64 GB Memory card in a Memory card slot	SD card slot support up to 256GB Reason: It should be able to support at	As per RFP

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					least 256 GB so that it can store atleast 3 days recording	
622	2	Safety/TR/2.06	250	Fixed Camera - Lens Auto IRIS - 5 – 50 mm, F1.4	Every OEM has different aperture delivering the same quality thus "F" value to be allow is F1.6	As per RFP
623	2	Safety/TR/2.16	251	Casing - NEMA 4X / IP 66 rated	NEMA 4X standard is for corrosion resistance whereas IP 66 is for ingress protection. Hence both cannot be or/either.	Please refer to the Corrigendum
624	2	Safety/TR/2.17	251	Certification UL/EN,CE,FCC	Requesting you to accept: CE, FCC & UL/EN/BIS • UL, EN and IS (Indian Standard) are equivalent safety standards, all of them being derived from IEC (International Electro-technical Commission), who prepare and publish international standards for Electrical and Electronic Equipment. • The equivalence of UL, EN, IS and IEC is also clearly mentioned in the letter from Joint Secretory, DeitY to Joint Secretory MHA. (Annexure -III) • Ministry of Urban Development (MoUD) issue an order No: K-14012/101(17)/2017-SC-III-A. Where it state that Indian company should not restrict due to foreign certification asked in tender. MoUD Policy Enclosed (Annexure: IV) • Due to security reasons, Ministry of Electronics and Information Technology (MeitY) has notified a Compulsory Registration Order (CRO) for Electronic Equipment. CCTV Camera and Recorders have been covered under this order from 23rd May' 2018 and the Indian Standard, i.e. IS 13252- Part1 has been made mandatory for CCTV Camera and CCTV Recorders. BIS has adopted IS 13252 -1 as	As per RFP

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					the Indian Standard. (Annexure -V) • The Government has issued Public Procurement (Preference to Make in India) Order 2017 vide the Department of Industrial Policy and Promotion (DIPP) Order No. P-45021/2/2017-B.E.-II dated 15.06.2017 which is further revised vide No. P-4502 l/2/2017-PP (BE-II) dated 28.05.2018 to encourage 'Make in India' states on Page 3, point 10: " For any telecom product, service and work as in Table-A, the procuring entity should not specify to bidder to mandatory qualify any foreign eligibility specifications or certification(s) issued by any foreign testing/security lab(s)" (Annexure -VI) • Therefore, BIS shall be the only certification asked for CCTV cameras and Recorders.	
625	2	Safety/TR/2.17	251	Certification - UL/EN, CE, FCC	UL and EN optional will keep the certification open and sub-standard product will be quoted.	As per RFP
626	2	Safety/TR/2.18	251	Minimum 64 GB Memory card in a Memory card slot	Built-in Micro SD/SDHC/SDXC slot, up to 256 GB. The vendor should provide 128GB SD Card for the same. Reason: It should support at least 256 GB so that it can store at least 3 days recording	As per RFP
627	2	Safety/TR/2.19	251	Fixed Camera - Internal/External. IR range should be 100 meter or better	As the cameras are installed at junctions and as per survey any junction is not more than 50 meters of radius thus kindly allow for 60 m IR illuminator. This will also be cost saving.	As per RFP
628	2	Safety/TR/2.20	251	Field of View : Shall have at least 70 degrees field of view (horizontal)	These values are specific to OEM so kindly remove else allow for at least 60 Deg	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
629	2	Safety/TR/3.03	251	Automatic on/off operation	Request to modify the clause as under " Power : Automatic on/off operation POE, DC/AC "	As per RFP
630	2	Safety/TR/3.06	251	CE, FCC, UL/EN	Request to modify the clause as CE,FCC,UL	As per RFP
631	2	Safety/TR/4.04	251	The NVRs shall have a self-diagnostic feature including disk status, CPU usage, motherboard temperature, network status and fan status	The diagnostic feature may be limited to disk status, CPU usage and network status. The temperature and fan status are related features which can be ensured by way of redundant fans and wide temperature range of operations say 0°C ~ 55°C / 32°F ~ 131°F Request to remove motherboard temperature and fan status	As per RFP
632	2	Safety/TR/4.05	251	The NVRs shall be support interface using 10/100/1000BaseTX. It shall support a total throughput of at least 700 Mbps	The NVRs shall be support interface using 10/100/1000BaseTX. It shall support a total throughput of at least 512 Mbps Reason: It is OEM Specific	Please refer to the Corrigendum
633	2	Safety/TR/4.07	251	Each NVR unit shall be Minimum of 4U height	Each NVR unit shall be Minimum of 3U/4U height Reason: 3U takes lesser space so should be allowed, it should be read as Max 4U instead of Min 4U	Please refer to the Corrigendum
634	2	Safety/TR/4.08	251	The NVR shall support both Linux and Windows platform	Request to Kindly modify the clause as under. The IP BASED NVR shall support Linux or Windows platform	As per RFP
635	2	Safety/TR/4.08	251	The NVR shall support both Linux and Windows platform	All major OEM support windows based VMS thus modify as below, "The NVR shall support both Linux / Windows platform"	As per RFP
636	2	Safety/TR/4.08	251	The NVR shall support both Linux and Windows platform	Typically End user will install one OS Platform in the NVR/Server as installing both OS not advisable/feasible.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
					Kindly consider: The NVR shall support Linux or Windows platform. The VMS Software should be certified from either of the OS platform provider i.e. Linux or Windows.	
637	2	Safety/TR/4.08	251	The NVR shall support both Linux and Windows platform	The NVR is an embedded based system which operated over Linux based. Whereas, the VMS software supports windows platform. Thus requesting to amend as Operating system of NVR as Linux or Windows Platform or To be specified by Bidder	As per RFP
638	2	Safety/TR/4.09	251	The NVR shall be capable of digitally signing stored video and digitally sign exported video to ensure chain of trust	Request to remove digitally signing stored video	As per RFP
639	2	Safety/TR/4.11	251	The NVR shall support a minimum of 200 recorded video streams and 20 playback streams with minimum playback of 400 Mbps	The NVR shall support a minimum of 500 recorded video streams and 16 Ch Synchronous playback streams Reason: OEM specific	As per RFP
640	2	Safety/TR/4.11	251	The NVR shall support a minimum of 200 recorded video streams and 20 playback streams with minimum playback of 400 Mbps	Please help to confirm which incoming bandwidth needs to be consider, as point number Safety/TR/4.05 mentioned 700 Mbps & in Safety/TR/4.11 mentioned 400 Mbps.Thus, please confirm whether to consider 700 Mbps or 400 Mbps.	Please consider bandwidth of 400 Mbps
641	2	Safety/TR/4.12	252	Normal state (non-alarm) recording configuration to provide for "Detection" as defined by ULC-317-1997	Remove the standard Reason: It limits the OEM	Please refer to the Corrigendum
642	2	Safety/TR/4.13	252	Alarm state recording configuration to provide for "Recognition" as defined by ULC- 317-1997	Remove the standard Reason: It limits the OEM	Please refer to the Corrigendum
643	2	Safety/TR/5.12	252	Users shall be able to view stream statistics on all current video streams, including the following information: · Frame rate	In ONVIF, bit rate info not supported thus delete audio bit rate from VMS system.	As per RFP

S. No.	RFP Volume	Section / FR No. / TR No.	Page No.	RFP Content	Query / Clarification	Response
				· Resolution (SIF, 2SIF, 4SIF,720p, 1080p, 5MP) · Current bit-rate · Audio bit-rate		
644	2	Safety/TR/7.16	253	Bypass Automatic, Manual Bypass Switch	Manual Bypass Switch shall be excluded as not a standard parameter on LCD in all reputed OEMs	As per RFP
645	2	VAMS/FR/1.28	258	The system compliant to optical parameters of EN12966 with Beam width of B7.	VaMS/TR/1.09 Beam Width: B7+ as per IRC/EN12966 standards In functional specifications, beam width is given as B7. Whereas in technical specifications it's given as B7+. Kindly clarify which parameter to consider.	As per RFP
646	2	PAS/FR/2.13	260	The system message quality shall be clearly audible from its location to a distance of more than 100 m without any distortion and loss in quality of the sound factoring the traffic conditions prevalent in the city.	Kindly provide qty for speaker since 100 m is not a standard requirement in any of smart city job for outdoor condition else reduce it to 30-50 mtrs. In addition pl. mention Noise sensor qty in RFP BOQ	MSI to decide
647	2	VaMS/TR/5.03	262	Power Back-up & its enclosure: UPS for one hour power back-up with auto switching facility. The enclosure of UPS and battery should be pole mountable with IP 65 protected housing and lockable	The protection class shall be changed from IP 65 to IP 55 & Mounting shall be changed to Pole/Floor Mount based on design/weight of the system	MSI to decide
648	2	PAS/TR/6.1	264	The UPS unit shall be on-line 3:3 or 3:1 phase UPS with extendable rack system.	For PA System, it shall be 1P-1P only	As per RFP
649	2	PAS/TR/6.2	264	The UPS design shall ensure that a single component/ device failure shall not result in failure of the entire UPS system. The design of UPS System shall be modular to permit easy maintenance.	None of the UPS manufacturer have MODULAR UPS in 1/2/3/5kva UPS Systems. Kindly exempt this feature	As per RFP
650	2	EMS/TR/1.55	269	Temperature range shall be -10° to +100°C.	Please reduce value the value to 0° to 55°C. Please change the value to 0° to 55°C. As	As per RFP

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					India ambient temperature does not exceed 50°C.	
651	2	EMS/TR/1.90	270	Power requirements of the system (environmental station and DDS) shall 220-240 VAC, 50Hz. It shall have an in-built NEMA 5-15P plug factory installed.	Please remove the statement "It shall have an in-built NEMA 5-15P plug factory installed." Please remove the statement mentioned as NEMA is American domestic standard and not a standard defined by BIS.	As per RFP
652	2	EMS/TR/1.92	270	Environmental station and DDS shall support communications by GPRS (2G) / GSM (3G) / LTE (4G) / Wi-Fi / LORA Sensors shall have provision to interchange between GSM and LORA.	Please remove LoRa from the existing Clause and change it as "Environmental station and DDS shall support communications by GPRS (2G) / GSM (3G) / LTE (4G) / Wi-Fi." LoRa has low bandwidth and is not suitable for continuously streaming Environmental Sensors and DDS. So please remove LoRa from the existing Clause.	As per RFP
653	2	EMS/TR/3.4	270	The model size of DDS shall be minimum 160X160 mm.	Please remove the statement. Please remove the statement as it is specific to a particular vendor.	As per RFP
654	2	Wi-Fi Hotspots - Scope of Work	272	Online UPS to ensure that a single component/ device failure shall not result in failure of the entire UPS system.	None of the UPS manufacturer have MODULAR UPS in 1/2/3/5kva UPS Systems. Kindly exempt this feature	As per RFP
655	2	Wi-Fi Hotspots | Scope of Work	272	Online UPS to ensure that a single component/ device failure shall not result in failure of the entire UPS system.	We understand that this specification is for Command and control room UPS.	No, it is for all the UPS to make sure the availability of systems as per the SLA requirements
656	2	Wifi/FR/1.03	273	City Wi-Fi will be made available to citizens at minimum five (5) Mbps speed with a minimum throughput of 512kbps. Free City Wi-Fi facility should be available as per the specified in SLAs in the RFP for a specified time.	City Wi-Fi will be made available to citizens at minimum five (5) Mbps speed with a minimum throughput of 512kbps. Free City Wi-Fi facility should be available as per the specified in SLAs in the RFP for a specified time/functionally could be achieve by Guest	As per RFP

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					management as well where multiple reputed vendor can quote vendor neutral planform Justification: This is vendor neutral with Guest Management	
657	2	Wifi/FR/1.06	274	A denied URL list should be applied on this City Wi-Fi SSID and should be updated on a run time basis, to self-learn (no human inference shall be required) and automatically update the list. Any malicious user on the City Wi-Fi should be immediately dropped and blocked after appropriate recording of the evidence	A denied URL list should be applied on this City Wi-Fi SSID and should be updated on a run time basis, to self-learn (no human inference shall be required) and automatically update the list. Any malicious user on the City Wi-Fi should be immediately dropped and blocked after appropriate recording of the evidence/ same can be achieve through controller also Justification: This is vendor neutral with Controller Also	As per RFP
658	2	Wifi/FR/1.07	274	After the free usage of as defined by client, user shall automatically switch over to login page and continue to use by paying as per the data plans else the user will not have the internet access. The rates for Paid City Wi-Fi and wired internet services should be competitive to the market rates of the leading data service providers in Odisha. MSI should obtain client approval before introducing these rates and any proposed changes in the rates.	After the free usage of as defined by client, user shall automatically switch over to login page and continue to use by paying as per the data plans else the user will not have the internet access. The rates for Paid City Wi-Fi and wired internet services should be competitive to the market rates of the leading data service providers in Odisha. MSI should obtain client approval before introducing these rates and any proposed changes in the rates/same can be achieved through Guest management also Justification: This is vendor neutral with Guest Management	As per RFP
659	2	Wifi/FR/1.09	274	Based on the hotspots capacity requirements, MSI shall determine and provide number of Access points per Hotspot as per the required Internet bandwidth (both per Hotspot and per user)	Based on the hotspots capacity requirements, MSI shall determine and provide number of Access points per Hotspot as per the required Internet bandwidth (both per Hotspot and per user)	As per RFP

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				and aggregated total bandwidth per hotspot. Applicant can consider the contention ratio of 1:10 per user from day 1 of implementation of the project	and aggregated total bandwidth per hotspot. Applicant can consider the contention ratio of 1:10 per user from day 1 of implementation of the project/same can be achieve through guest management also	
660	2	Wifi/FR/1.13	274	MSI should ensure the security of the Wi-Fi network and should be able to monitor and manage using appropriate access login controls and audit trails from the Smart City Operations Centre. It should be approved by the client before actual implementation of the same	MSI should ensure the security of the Wi-Fi network and should be able to monitor and manage using appropriate access login controls and audit trails from the Smart City Operations Centre. It should be approved by the client before actual implementation of the same/same should be supported through NMS Justification: This is vendor neutral with NMS Management	As per RFP
661	2	Wifi/FR/1.15	274	MSI should ensure to put up a system in place which can control each registered user's access to Wi-Fi network and the MAC address of the device. Necessary security measures should be enforced along with access control policies and tracking & auditing the usage	MSI should ensure to put up a system in place which can control each registered user's access to Wi-Fi network and the MAC address of the device. Necessary security measures should be enforced along with access control policies and tracking & auditing the usage/Same should be achieve through NMS Justification: This is vendor neutral with NMS Management	As per RFP
662	2	Wifi/FR/1.16	274	Solution shall be able to restrict the bandwidth as per the policies. Solution shall have configurable GUI for Policy management to differentiate location wise Bandwidth policies	Solution shall be able to restrict the bandwidth as per the policies. Solution shall have configurable GUI for Policy management to differentiate location wise Bandwidth policies/same should be able to achieve through Guest Management Justification: This is vendor neutral with Guest Management	As per RFP
663	2	Wifi/FR/1.17	274	The solution shall support Usage based on data usage as well as time duration based monitoring. It shall support real time	The solution shall support Usage based on data usage as well as time duration based monitoring. It shall support real time	As per RFP

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				disconnection based on usage of time or data	disconnection based on usage of time or data/same should be able to achieve through Guest management Justification: This is vendor neutral with Guest Management	
664	2	Wifi/FR/1.19	275	It shall offer complete subscriber management features in Subscriber Management options which mainly focuses on creating, editing, updating, renewing, deleting, and managing of accounts for all subscribers.	It shall offer complete subscriber management features in Subscriber Management options which mainly focuses on creating, editing, updating, renewing, deleting, and managing of accounts for all subscribers/same should be able to achieve through Guest management Justification: This is vendor neutral with Guest Management	As per RFP
665	2	Wifi/FR/1.22	275	As part of this implementation exercise, the client should get the intelligence about the Wi-Fi service through statistical data, reports and analysis of User registration, Data Usage under various schemes, Network status across the city, device availability, throughput of the internet, Hardware status across the city etc.	As part of this implementation exercise, the client should get the intelligence about the Wi-Fi service through statistical data, reports and analysis of User registration, Data Usage under various schemes, Network status across the city, device availability, throughput of the internet, Hardware status across the city etc. /same should be able to achieve through Guest management. Justification: This is vendor neutral with Guest Management	As per RFP
666	2	Wifi/FR/1.23	275	MSI should provide a web portal for the client to monitor the mentioned indicators and to conduct the necessary audit of implemented system.	MSI should provide a web portal for the client to monitor the mentioned indicators and to conduct the necessary audit of implemented system/same should be supported through NMS Justification: This is vendor neutral with NMS Management	As per RFP
667	2	Wifi/FR/1.24	275	Client web portal should have a functionality to retrieve various MIS reports. E.g.: a. User wise, Access point wise,	Client web portal should have a functionality to retrieve various MIS reports. E.g.: a. User wise, Access point wise,	As per RFP

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				connectivity and data usage report in digital format from systems, security events, forensic auditing in given format. b. Other relevant reports as may be required by client, should have to be provided by the Successful Bidder. c. Blacklisting of users by MAC Address or by checking malicious activity performed by user should be achieved	connectivity and data usage report in digital format from systems, security events, forensic auditing in given format. b. Other relevant reports as may be required by client, should have to be provided by the Successful Bidder. c. Blacklisting of users by MAC Address or by checking malicious activity performed by user should be achieved / same should be supported through NMS Justification: This is vendor neutral with NMS Management	
668	2	Wifi/TR/1.09	275	Shall have -100 dB or better Receiver Sensitivity.	This clause is vendor specific. Therefore, kindly request to please change this as "Shall have -91 dBm or better Receiver Sensitivity", so that all leading OEM can participate.	As per RFP
669	2	Wifi/TR/1.09	275	Shall have -100 dB or better Receiver Sensitivity.	Partial Justification: Should Change to -95	As per RFP
670	2	Wifi/TR/1.18	276	Wireless AP should support beam-forming technology to improve downlink performance of all mobile devices, including one-, two-, and three-spatial stream devices on 802.11ac without taking the inputs from client.	AP has been asked with 2x2:2, hence request to remove 3-spatial stream device. Request to please keep 1 and 2 spatial streams devices.	As per RFP
671	2	Wifi/TR/1.21	276	Access point shall support powering from AC /DC/ POE/PoE+	ALL AP support POE Uplink (Need to Be removed DC part) Justification: Should remove DC	As per RFP
672	2	Wifi/TR/2.01	276	MSI has to offer the Wi-Fi management services. The Wi-Fi management system should be capable of performing the following functions: Configuration, enabling-disabling of Access Points as and when required. It shall have centralized Database which enables administrator easily manage	MSI has to offer the Wi-Fi management services. The Wi-Fi management system should be capable of performing the following functions: Configuration, enabling-disabling of Access Points as and when required. It shall have centralized Database which enables administrator easily manage	As per RFP

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				database from a single point in distributed Architecture Real-time reporting: 1. Give summary of wireless system status on single management console with graphical user interface which can be customized for future use Inventory of Access Points and their current status. 2. No of APs connected to the network / switches/ repeaters etc. with hierarchy of controls (with IP) as per the design of the Successful Bidder 3. No of users connected to AP with IP of access Points	database from a single point in distributed Architecture Real-time reporting: 1. Give summary of wireless system status on single management console with graphical user interface which can be customized for future use Inventory of Access Points and their current status. 2. No of APs connected to the network / switches/ repeaters etc. with hierarchy of controls (with IP) as per the design of the Successful Bidder 3. No of users connected to AP with IP of access Points / same should be supported through NMS Justification: This is vendor neutral with NMS Management	
673	2	Wifi/TR/3.01	276	The WLAN controllers should be, capable of managing at least 1500 Wireless AP and should be scalable as and when required.	The WLAN controllers should be, capable of managing at least 1000 Wireless AP and should be scalable to 1500 as and when required. This is a duplicate point and coincides with the point below where the support for 6000 Aps has been asked for	Please refer to the Corrigendum
674	2	Wifi/TR/3.05	276	Should have at least 4 x 10 Gigabit Ethernet interface.	Should have at least 2 x 10 Gigabit Ethernet interface. 4*10G interface is too high requirement for a WLC and will keep the majority of the OEMs out of the bid, hence requesting to rephrase the clause to allow participation from the majority of the OEMs	Please refer to the Corrigendum
675	2	Wifi/TR/3.05	276	Should have at least 4 x 10 Gigabit Ethernet interface.	Should have at 1G or 10G Gigabit Ethernet interface.	Please refer to the Corrigendum

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					Justification: This should be vendor Neutral with controller	
676	2	Wifi/TR/3.11	277	WLC should support AC and DC powering options.	WLC should support AC OR DC powering options. None of the devices can support AC and DC power supply at the same time. It can be either AC or DC and hence requesting to rephrase the clause.	Please refer to the Corrigendum
677	2	Wifi/TR/3.11	277	WLC should support AC and DC powering options.	Request to modify this as "WLC should support redundant AC powering options.". As WLC will be deployed in Data Centre/CCC and in Data centre/CCC there will be two types of power supply one is AC and another type is UPS. So DC power supply is not relevant in Data centre environment and If required kindly modify as "WLC should support AC or DC powering options", both cannot be supported at the same time. Requesting the changes so that leading OEM can participate.	Please refer to the Corrigendum
678	2	Wifi/TR/3.11	277	WLC should support AC and DC powering options.	Partial Justification: Dual AC power supply is supported and this would fulfil the practical /actual requirement	Please refer to the Corrigendum
679	2	Wifi/TR/3.23	277	Should able to do dynamic channel bonding based on interference detected on particular channel.	This clause is OEM specific. Requesting to change this clause as "Should able to do channel bonding based on interference detected on particular channel", so that leading OEM can participate, as OEM to OEM's technology differs.	As per RFP
680	2	SCR/TR/4.1	282	Active Size: Minimum 77/78" diagonal or above	1. Minimum should be 92" with more than 150 Touch Point and tracking speed minimum 165 million dot per second. 2 It work with any aspect ratio (4:3, 5:4, 16:9,	As per RFP

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					16:10)	
					For a classroom of 20-25 and slightly more students 78 inch is provides comfortable viewing but for more 40 students atleast 92 inches is required.	
681	2	SCR/TR/4.2	282	Technology: Infrared or latest Technology	3D Optical Technology It's an advanced technology.	As per RFP
682	2	SCR/TR/8.1 - SCR/TR/8.2	283	1 KVA, Internal double battery Backup of 10-15 minute	Pl define the nos of batteries & AH i.e 2 nos 7Ah batteries inside UPS (instead of giving back-up time of 10-15 minutes with no details of load in kw)	As per RFP MSI to ascertain the same
683	2	SCR/TR/9.2	283	The camera shall include an integral receiver/driver. The receiver/driver shall be capable of controlling pan-tilt, zoom and focus locally and remotely from the ICCC.	As the subject topic is mentioned as "Fixed Camera" does not have the accessibility to PAN-TILT from the remote ICCC. It has the motorized zoon functions which can be accessible from the ICCC through the Camera GUI and VMS. Hence, kindly amend the clause like" The camera shall include an integral receiver/driver. The receiver/driver shall be capable of controlling pan-tilt, zoom and focus locally and zoom in /Out from remotely from ICCC	As per RFP
684	2	Smart Classrooms | UPS	283	SCR/TR/8.1 - 1 KVA, Internal double battery SCR/TR/8.2 - Backup of 10-15 minute SCR/TR/8.3 - Input voltage of 160- 280V	As per the backup duration and load of all the equipment asked in smart classroom, UPS of bigger capacity is required with external battery bank. Thus allow MSI to decide what UPS capacity is required and with external battery option	MSI to calculate as per design requirements.
685	2	SCR/TR/7.13	283	The Server shall include 1 Serial port and 1 VGA (+1 front VGA on rack models).	Kindly update the clause to "The Server shall include 1 Serial port and 1 VGA (+1 front VGA/display port on rack models)". Since the last decade, display port is rapidly replacing VGA as the preferred interface to connect video source to display devices like	As per RFP

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					monitors, laptops etc. Every OEM provides different video interface combination on front and rear side, therefore kindly request the authority to relax the clause.	
686	2	SCR/TR/8.1	283	8.1 - 1 KVA, Internal double battery 8.2 -Backup of 10-15 minute	PI define the nos of batteries & AH i.e. 2 nos 7Ah batteries inside UPS (instead of giving back-up time of 10-15 minutes with no details of load in kw)	As per RFP
687	2	SCR/TR/8.1	283	UPS : 1KVA	Pls share the detail technical spec	MSI to decide as per design requirements.
688	2	SCR/TR/9.20	284	There shall be a minimum of 100 assignable automatic preset positions.	Preset options only are enable in PTZ as the Presets points are done by doing PAN and TILT the Camera along with the Zoom functions. Since the Camera is Fixed Camera it does not have the PAN TILT functions to create PRESETS. Hence, kindly remove the clause from the Minimum Technical Requirement	As per RFP
689	2	SCR/TR/9.21	284	There shall be a minimum of 8 definable privacy zones.	As per the Standard functions of CCTV Cameras there will be 4 Privacy Masking comes with default and that is enough for the requirement. If the number of Privacy Masking is increased then it can affect the live view images and cannot be properly viewed. Hence, kindly change it to minimum 4 Privacy zones	As per RFP
690	2	Emergency Call Box | Scope of Work	285	MSI shall require to design and install 20 Emergency Call Box at strategic locations	As per RFP BoQ, 20 nos of ECB is to be considered but there is no location details given. Location details are important in junction engineering. Hence, kindly provide location details for ECB.	MSI to identify the locations based on its survey
691	2	ECB/FR/1.01	285	The emergency box (or panic button) will enable citizens to establish a two way audio (microphone and speaker) – video (video camera and a video screen) communication	Two way audio is good to go and one way video i.e. from field ecb to CCC should be considered because there is no use of sending video of ICCC operator from	As per RFP

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				link with operation staff at RSCL (or other locations where control solutions is deployed) through a press of a button.	control room to the field. Thus clause to be modified as below since all major OEMs does not support this feature, The emergency box (or panic button) will enable citizens to establish a two way audio (microphone and speaker) – and one way video (video camera at ECB and a video screen in ICCC) communication link with operation staff at RSCL (or other locations where control solutions is deployed) through a press of a button.	
692	2	ECB/FR/1.01	285	The emergency box (or panic button) will enable citizens to establish a two way audio (microphone and speaker) – video (video camera and a video screen) communication link with operation staff at RSCL	Does the ECB on field require Video screen to display the video of operation staff to the citizen.	Yes
693	2	ECB/TR/1.19	286	7" digital TFT-LCD HD Display with touch panel	Need to confirm the location of the LCD HD Display as in general the same should be placed at the ICCC.	These shall be placed at 20 locations to be identified by the MSI.
694	2	Website/Portal and Mobile Application | Scope of Work	287	MSI shall design and develop a Website/Portal and Mobile App to integrate existing e-governance services, provide informative services related to the city of Rourkela and also facilitate grievance redressal mechanism.	Kindly provide the list of existing e-governance services.	MSI to ascertain the same through pre-proposal survey
695	2	Website/Portal and Mobile Application | Development | Minimum Functional Requirements	287	Audio, Video, image, GIS map and text information development	We understand that the responsibility for provision of content in a timely fashion lies with RSCL. Kindly confirm	RSCL shall facilitate in obtaining relevant information associated with design &

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						development of the websites
696	2	DWB/FR/1.20	288	Social Networking & City wide Collaboration Enables citizens to get live feeds of various activities & events in the city.	Kindly clarify regarding the type, volume and frequency of live feeds & events in the city. Who will be responsible for the collaboration?	MSI to ascertain the same
697	2	DWB/FR/2.04	289	This section will provide the web link for payment of various municipal taxes by citizen. By clicking the link citizens will be redirected to the relevant e-Governance platform to pay municipal taxes/fee like Property Tax, Trade License Fees, Lease/Rent, Mutation Fee, etc.	1) Please clarify, Do MSI will only integrate already existing property Tax system on WebGIS portal? 2) As per our understanding, we will integrating only property surveyed information. Geotagging / Creation/ Survey is not part of GIS scope of work. Please clarify	1) Yes 2) Please refer to the section on GIS of Volume 2 of this RFP
698	2	DWB/FR/2.04	289	This section will provide the web link for payment of various municipal taxes by citizen. By clicking the link citizens will be redirected to the relevant e-Governance platform to pay municipal taxes/fee like Property Tax, Trade License Fees, Lease/Rent, Mutation Fee, etc.	Whether property tax data will be provided by RSCL or property tax mapping needs to be carried out by bidder.	MSI to collect the relevant data. RSCL shall facilitate in collecting information from the concerned stakeholders
699	2	DWB/FR/2.06	289	Citizen Services - This section will provide the web link for availing various citizen services. By clicking the link citizens will be redirected to the relevant platform to avail various citizen services like Birth & Death, certificate, Marriage Registration, Trade License, RTI, Building Plan Permission, etc.	As understood from RFP Statement that a configurable BPM (Business Process Management) Tool will be required which can design & define simple & complex Approval Workflows (without any development effort & with drag-n-drop components) with the integration with Portal BPM based Workflow Solution should have the capability of automating following Citizen Centric Processes (With easy designing & configuration without any code involvement),	MSI to decide

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					a. Birth & Death Certificate Issuance b. Trade License Certificate Issuance c. Right to Information (RTI) Process Automation d. Building Plan Permission e. Marriage Registration Certificate Issuance Please confirm whether the above understanding is correct and apart from the above if there are any other processes that need to be automated through BPM based Workflow Solution. In case 'YES', please mention the name of the same.	
700	2	DWB/FR/2.06	289	Citizen Services - This section will provide the web link for availing various citizen services. By clicking the link citizens will be redirected to the relevant platform to avail various citizen services like Birth & Death, certificate, Marriage Registration, Trade License, RTI, Building Plan Permission, etc.	In assumption with above understanding is correct, we presume that RSCL requires a BPM based Workflow Management System to cater various Citizen Centric Process Automations and Internal Office Automation Processes, the required Workflow Solution will come up with following mandatory functionalities, 1. The system shall facilitate re-engineering of processes and act as a platform for building specific application and have a workflow engine to support different types of document routing mechanism including Sequential, Parallel, and Rule Based & Ad-Hoc Routing. 2. The BPM system shall support Inbuilt Graphical workflow designer for modelling simple & complex Business Processes using drag and drop facilities. 3. The interface shall be easy to use so that Process owners can change the business process as and when required without any programming knowledge.	MSI to decide

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					4. The system shall provide inbuilt facility to design Custom forms that can be attached at one or more stages of workflow. 5. The system shall provide facility to define variables in the process or in external database tables, which can be linked to fields defined in the form for efficient data entry. 6. The system shall provide facility to define custom triggers like Emails, Word template or launching executable etc. on predefined conditions. 7. System shall provide a facility to configure dashboard for individuals as per User Role or Group. 8. The workflow management system shall support extensive password validations i.e. locking of user account after specified number of unsuccessful login attempts, password history, password expiry, and passwords must be alphanumeric and of minimum character length etc. 9. The required workflow solution should comply with various open workflow standards such as BPMN, BPEL, and WFMC. 10. The proposed BPM/Workflow Solution should have the capabilities such as graphically modelling the processes or workflows, process simulator, integrated rules engine, inbuilt form designer, reports/dashboard tool and integrated Document Management System for storing documents. 11. The BPM solution should come with a Business Activity Monitoring System to	

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					facilitate users by providing a privilege based Dashboard view. The above are very few specification of a standard BPM based Workflow Solution through which an organization can achieve an out of box process automation solution with a very strong integration capability with multiple other application & social medias and having a very easy change management system. Please confirm whether the above understanding is correct.	
701	2	DWB/FR/2.07	289	This section will facilitate citizens to lodge the complaint including upload image with Geo Tagging of the location. · The Website/Portal and Mobile Application will have complaint / grievance management functionality, comprising features as follows: o Registering complaint o Acknowledge the complaint with registration number through SMS / email o Following the complaint within the SLA o Defining the SLA and escalation management o Types of complaint and user role management for complaint o Closure of the complaint with feedback o Dashboard / periodical reports	Please provide clarity where the complaints will be acknowledged? Will the city need an interface which an operator will use to resolve the grievances?	As per RFP
702	2	DWB/FR/2.11	290	Interactive community dashboards will be present at various levels (City, Ward, Society, and Individual) to maintain citizen engagement and city operations.	Kindly elaborate on the types of dashboards envisaged	As per RFP
703	2	WBP/FR/3.07	291	Shall be available anytime, anywhere: The portal shall be available 24 hours a day, 7 days a week, and accessible from	Kindly clarify the sort of functional support that is expected for the portal.	As per RFP

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				anywhere in the world via the internet. While the technology shall be available round the clock, functional support might be available during the normal working day-9:30 to 6:30, 6 days a week.		
704	2	WBP/FR/3.13	292	GIS Maps: Portal should have the capability of displaying any GIS map example open street maps, Google Map, etc. Portal should have capability to map boundary and locations with exact latitude and longitude.	Kindly clarify who shall be responsible for procuring and provisioning the GIS map example open street maps, Google Map, etc.	MSI will be responsible for the GIS maps
705	2	WBP/FR/3.15	292	Analytics: Portal should be able to integrate with all major analytics packages like WebTrends and Google Analytics etc. It should also support Social media analytics of FB & Twitter etc.	Kindly clarify who shall be responsible for procuring and provisioning analytics packages like WebTrends and Google Analytics etc.	MSI will be responsible for the same
706	2	WBP/FR/3.15	292	Portal should be able to integrate with all major analytics packages like WebTrends and Google Analytics etc. It should also support Social media analytics of FB & Twitter etc.	Should analytics and Portal be from same Vendor so that integration could be easy	MSI may propose single or multiple OEM to cater to the functionality of the RFP
707	2	WBP/FR/3.20	292	Email & SMS gateway: The solution should have out of box support to integrate with external email gateway & SMS gateway.	Along with OOTB support, should the platform be capable to develop custom module, hence allowing more vendors to participate	As per RFP

However, MSI may design the solution to meet the functional requirement of the RFP |
| 708 | 2 | WBP/FR/3.44 | 294 | Document Management : CMS shall support features of document management | As per our understanding with implementing similar systems, Smart City Projects requires a robust Document Management System (DMS) that needs to be architecturally scalable and secured i.e. | Yes, correct |

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					it shall have a separate image storage and only metadata to be stored in RDBMS. Given that the documents that need to be stored are from citizens and govt. departments, they need to be encrypted while being saved at the file server. The portal should contain separate document management system as an integrated layer for this robust, structured & secured repository. Please confirm if our understanding is correct.	
709	2	WBP/FR/3.44	294	Document Management : CMS shall support features of document management	In assumption of the above understanding is correct, required DMS Application will be used for managing all documents and other contents i.e. Pictures, Audio/Video Clips, and Large Drawings & Maps etc. across different departments in a central repository with an objective to reduce the effort for retrieving those materials in a quick & easy way. As per our assumptions from RFP objective, the required DMS applications should have the following mandatory functionalities, Document Management System Specification - Solution should be compliant to ODMA, WebDav open source standards. - 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 - Extensive document and folder level operation such as move / copy, email, download, delete, metadata association etc. - Support archival & view of PDF/A format	MSI to decide

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					documents (open ISO standard for long term archival of documents) - Repository should be format agnostic - Indexing of the documents on user defined parameters - Association of the key words with the documents - The Image applet shall support comprehensive annotation features like highlighting, marking text, underlining putting sticky notes on documents, and support for text and image stamps etc. - Server based Inbuilt Document Image Viewer for displaying image document without native viewer - Viewer should be platform independent - Automatic stamping of annotations with user name, date and time of putting annotations - Securing annotations for selective users. Please confirm whether this understanding is correct.	
710	2	WBP/FR/3.44	294	Document Management : CMS shall support features of document management	In assumption to the above understanding is correct, required DMS application should have a capturing/scanning solution in a distributed model as well as central model i.e. Documents can be scanned at other location along with central location and archived in central DMS server. Please confirm whether this understanding is correct.	MSI to decide
711	2	WBP/FR/3.44	294	Document Management: CMS shall support features of document management.	Should DMS and portal be from same vendor thus removing complexity of integration	As per RFP MSI may propose single or multiple

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						OEM to cater to the functionality of the RFP
712	2	WMA/TR/2.04	299	The mobile application should be developed in the latest version of Android, iOS and Windows operating system.	Since Mobile App for Windows is considered obsolete, request to remove it from scope.	As per RFP
713	2	WMA/TR/2.11	299	It should also allow to upload stored data from the device like media files (image, audio, video), PDF etc.	As understood from this RFP statement, required DMS application should have the capability to archive any documents irrespective of its type i.e. Audio/Video Files, E-Documents, and Digitized Documents etc. with a strong integration with 3rd Party Portal Application. Please confirm whether this understanding is correct.	As per RFP
714	2	Artificial Intelligence based analytics, Machine Learning | Responsibility of MSI	301	MSI should propose solution, which is implemented in minimum 5 projects and 3 to 4 different use cases mentioned below based on AI across the world. Evidence to be submitted for project executed.	This clause contradict with the OEM criteria on page no. 24 of volume 1 , which state that OEM of AI should have following criteria: Independent Software Vendor (ISV) shall have implementation base of minimum 3 similar projects globally (including India) in areas including ICCC, DB,AI analytics, ERP etc. Clarify which clause will supersede, volume 1 or volume 2.	As per RFP
715	2	Artificial Intelligence based analytics, Machine Learning	301	MSI should propose solution, which is implemented in minimum 5 projects and 3 to 4 different use cases mentioned below based on AI across the world. Evidence to be submitted for project executed.	AI is an emerging solution in all smart cities. Most of the vendors doesn't meet this PQ criteria. For fair participation of all the vendors, kindly please revise the statement as - MSI should propose solution, which is implemented in minimum 3 projects and 3 to 4 different use cases mentioned below based on AI across the world. Evidence to be submitted for project executed.	As per RFP

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716	2	Artificial Intelligence based analytics, Machine Learning | Scope of Work	301	MSI should propose solution, which is implemented in minimum 5 projects and 3 to 4 different use cases mentioned below based on AI across the world. Evidence to be submitted for project executed.	Please revise the statement as - MSI should propose solution, which is implemented in minimum 5 projects and 3 to 4 different use cases mentioned below based on AI in India/ across the world. Evidence to be submitted for project executed.	As per RFP
717	2	Artificial Intelligence based analytics, Machine Learning | Scope of Work	301	Artificial Intelligence based analytics, Machine Learning	Please allow the Bidder to choose from Centralised/ Decentralised architecture for implementing AI-DL Based Analytics	As per RFP

However, MSI may design its own solution to meet the functional requirements of the RFP |
| 718 | 2 | Artificial Intelligence based analytics, Machine Learning \| Scope of Work | 301 | Artificial Intelligence based analytics, Machine Learning Minimum Functional Requirements | We would like to highlight that ANPR can also be performed over GPUs which offers better detection and conversion accuracy. Please include ANPR detection along with all traffic related use cases mentioned in the list of AI-DL Based analytics use cases. | As per RFP

However, MSI may design the solution to meet the functional requirements of the RFP |
| 719 | 2 | AIML/FR/1.1 | 301 | These use cases are to be implemented using Artificial Intelligence through various cameras, sensors implemented in the field (Field device agnostic) implemented by RSCL with continuous learning capabilities at Data Centre with 85% accuracy in all below use cases. | In various projects, in absence of FPS on analysed video, OEMs have converted video analytics into "image analytics" by analysing only one frame/second. We request you to add the word "real-time delivering 25FPS" | As per RFP |
| 720 | 2 | AIML/FR/1.1 | 301 | These use cases are to be implemented using Artificial Intelligence through various cameras, sensors implemented in the field (Field device agnostic) implemented by | Kindly define Quantity against each Used case as well as No. of used case to be run on single camera? | It will be given at the time of implementation based on the |

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				RSCL with continuous learning capabilities at Data Centre with 85% accuracy in all below use cases. · Graffiti and Vandalism detection, Defacing/Destroying the public property and street furniture. · Detection and Recognize the pattern of demonstration and conflicts in crowd · Detection and classification of human, animal and vehicle · Applicable ITMS and Safety and Surveillance related used cases including but not limited to: · Behavioural Biometry : Identification through multiple behaviour · Parking Violation · Speeding Violation · Accident detection · Loitering detection · Person climbing barricade · Person collapsing · Person/Face recognition · Gesture recognition : Identification through gesture change · Parking Violation · Speeding Vehicle · Vehicle of interest' tracking by colour, speed, number plate · Helmet detection on two wheeler · Unwanted/ banned vehicle detection · Wrong way or illegal turn detection		requirement study and survey, however total quantity is 4500

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				· Public toilet cleaning and number of people using public toilets · Environmental condition detection · Fire detection at minimum 50 plus high risk locations. · Monitoring of under bridge Storm water logging.		
721	2	AIML/TR/1.1	302	Have operating temperature range as per City requirement to withstand outdoor operating environment as per city conditions	Have operating temperature range as per City requirement to withstand outdoor operating environment or as per MSI solution. Analytics server can be quoted external or Internal as per MSI best practises and solutions delivered previously. Kindly amend.	Please refer to the Corrigendum
722	2	AIML/TR/1.2	302	Have dual 10GbE and 4 IB EDR per system.	Have dual 10GbE SFP+ ports or higher (IB) Infiniband adapters are not typically required with the deep learning servers since it will require separate IB switches and etc. Request to Update.	As per RFP
723	2	AIML/FR/1.1	302	Public toilet cleaning and number of people using public toilets	This AI based use case is not related to camera. Request you to limit this to sensor based technology/remove the clause	As per RFP
724	2	AIML/TR/1.2	303	Support software libraries for continuous learning and improvement for betterment of intelligent video analytics software installed in field devices using Deep Learning based AI methodologies.	Supporting software libraries for continuous learning come from open standards and multiple companies release their own versions from time to time. It then becomes the responsibility of hardware OEM to release a combined package with its optimised OS, drivers and integrate all newer software libraries to support continuous learning. We therefore request you to add "Software Libraries for continuous learning and improvement must come from the same hardware OEM" for	As per RFP However, MSI may design the solution to meet the functional requirements of the RFP

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				better delivery of results towards city and citizens.		
725	2	Project Implementation Schedule	305	Quick-Wins at select locations on a pilot basis - T + 3 Months	We would like to request you to kindly quantify the requirements for Quick Wins, subsequently the lead time for majority IT hardwares are minimum 6 to 8 week, considering the same we request you to kindly amend the time line as T+ 5 months. Kindly confirm	As per RFP Quick wins requirement will be finalized during the inception stage of the project
726	2	Project Implementation Schedule	305	1.4 Phase I: Go Live Temporary ICCC and temporary Data Centre 1.5 Phase III: Integrated and Project Final Go Live Migration of temporary Integrated Command and Control Centre (ICCC) including Data Centre to permanent location	We understand that Bidders shall consider only Migration cost from Temporary ICCC to permanent ICCC. Any other ICCC interiors for Permanent ICCC is not in Bidders scope against this Bid. Also the Warranty and AMC for the items installed in Temporary shall only be 5 years after Go Live of Phase 1 and not necessary to be considered in the Bid price by the bidder. In case the same has to be extended it shall be mutually discussed and agreed at additional cost to the Bidder. We understand that the Building construction for ICCC is not in bidder's scope hence any delay due the construction of the ICCC building shall not be attributable to the bidders and in case of such delays adequate time extension shall be provided to the Bidder without any liability to the bidders. Kindly confirm	As per RFP
727	2	Project Implementation Schedule	305	1.4 Phase I: Go Live Temporary ICCC and temporary Data Centre 1.5 Phase III: Integration and Project Final	As there is no provision in the Price sheet, we understand that migration charges shall be quoted in "Any other items required" for shifting Infrastructure from Temporary to	As per RFP

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				Go Live Migration of temporary Integrated Command and Control Centre (ICCC) including Data Centre to permanent location	permanent ICCC and DC in the Price Sheet. Kindly Confirm.	
728	2	Project Implementation Schedule	305	Quick-Wins at select locations on a pilot basis · Safety and Surveillance System · Traffic Signals · City Wi-Fi · Website/ Portal and Mobile Application	Please define the scope of work of the Mobile Application that needs to be deployed as a part of quick-wins	As per RFP Quick wins requirement will be finalized during the inception stage of the project
729	2	Project Payment Schedule	306	Milestones Timelines Payment 1. Project Inception Report - T + 1 Month - 5% of CAPEX 2. Requirement Study - T + 3 Months - 5% of CAPEX 3. Hardware Delivery & commissioning of Temporary ICCC & DC - T + 5 Months - 40% of CAPEX (Payment shall be made on a pro-rata basis based on the modules defined in the Scope of Work of the RFP) 4. Phase I: Go Live - T + 6 Months - 15% of CAPEX 5. Phase II: Go Live - T + 9 Months - 15% of CAPEX 6. Phase III: Go Live (T1) - T + 12 Months - 10% of CAPEX 7. 3 Months after successful completion of Project Final Go-Live - T1 + 3 Months - 10% of CAPEX 8. 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	As you would appreciate that the smart city projects involves multiple stake holders with dynamic technologies it is very much important for the project to have a healthy cash flow for successful completion and commissioning of the project. In this regard we request you to kindly amend the clause as below, Milestones Timelines Payment 1. Project Inception Report - T + 1 Month - 10% of CAPEX 2. Requirement Study - T + 3 Months - 10% of CAPEX 3. Quick wins T+5 months - 10% of CAPEX 3. Hardware Delivery & commissioning of Temporary ICCC & DC - T + 6 Months - 40% of CAPEX on prorata basis 4. Phase I: Go Live - T + 7 Months - 10% of CAPEX on prorata basis 5. Phase II: Go Live - T + 10 Months - 10% of CAPEX on prorata basis 6. Phase III: Integration and Project Final Go Live - T + 12 Months - 10% of CAPEX	Please refer to the Corrigendum

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				instalments spread across 5 years Post Final Go-Live	(T1) on prorata basis 7. 3 Months after successful completion of Project Final Go- Live - T1 + 3 Months - 10% of CAPEX 8. 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	
730	2	Project Payment Schedule	306	Project Payment Schedule Project Inception Report (T + 1 Month) - 5% of CAPEX Requirement Study (T + 3 Months) - 5% of CAPEX Hardware Delivery & commissioning of Temporary ICCC & DC (T + 5 Months) - 40% of CAPEX (Payment shall be made on a pro-rata basis based on the modules defined in the Scope of Work of the RFP) Phase I: Go Live (T + 6 Months) - 15% of CAPEX Phase II: Go Live (T + 9 Months) - 15% of CAPEX Phase III: Go Live (T1) (T + 12 Months) - 10% of CAPEX 3 Months after successful completion of Project Final Go-Live (T1 + 3 Months) - 10% of CAPEX 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	We request you to please modify this as below:- Project Inception Report (T + 1 Month) - 5% of CAPEX Requirement Study (T + 3 Months) - 5% of CAPEX Hardware Delivery & commissioning of Temporary ICCC & DC (T + 5 Months) - *60% of CAPEX* (Payment shall be made on a pro-rata basis based on the modules defined in the Scope of Work of the RFP) Phase I: Go Live (T + 6 Months) - *10% of CAPEX* Phase II: Go Live (T + 9 Months) - *10% of CAPEX* Phase III: Go Live (T1) (T + 12 Months) - 10% of CAPEX 3 Months after successful completion of Project Final Go-Live (T1 + 3 Months) - 10% of CAPEX 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	Please refer to the Corrigendum

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731	2	Project Payment Schedule	306	Note 1: · Mobilization advance can be maximum of 10% of capex value · Mobilization advance shall be released only after receipt of Bank Guarantee of 110% of the requested amount · Mobilization advance shall be interest bearing and PLR rate of interest shall be payable to RSCL by the successful bidder · Mobilization advance shall be adjusted by Phase III of project implementation (T + 12 months)	We understand that Mobilization advance shall be interest bearing and PLR rate of interest shall be payable to RSCL by the successful bidder. As you are aware that this interest cost will be an additional cost for bidder which we have to factor in in our bid and it will unnecessarily increase the bid value. Since there is already a provision of a bank guarantee of 110% of the requested amount, we request that the clause be amended as: Note 1: If successful bidder requests for Mobilization advance, following conditions shall be applicable · Mobilization advance can be maximum of 10% of capex value · Mobilization advance shall be released only after receipt of Bank Guarantee of 110% of the requested amount · Mobilization advance shall be interest free ~~bearing and PLR rate of interest shall be payable to RSCL by the successful bidder~~	As per RFP
732	2	Project Payment Schedule	306	Note 1: If successful bidder requests for Mobilization advance, following conditions shall be applicable · Mobilization advance can be maximum of 10% of capex value · Mobilization advance shall be released only after receipt of Bank Guarantee of 110% of the requested amount · Mobilization advance shall be interest bearing and PLR rate of interest shall be payable to RSCL by the successful bidder	We understand that Mobilization advance shall be interest bearing and PLR rate of interest shall be payable to RSCL by the successful bidder. As you are aware that this interest cost will be an additional cost for bidder which we have to factor in in our bid and it will unnecessarily increase the bid value. Since there is already a provision of a bank guarantee of 110% of the requested amount, we request that the clause be amended as: Note 1: If successful bidder requests for	As per RFP

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					Mobilization advance, following conditions shall be applicable · Mobilization advance can be maximum of 10% of capex value · Mobilization advance shall be released only after receipt of Bank Guarantee of 110% of the requested amount · Mobilization advance shall be interest free bearing and PLR rate of interest shall be payable to RSCL by the successful bidder	
733	2	Annexure A: Guiding Principle for Smart City Solutions Development	310	The architecture should be scalable (cater to increasing load of internal and external users and their transactions) and capable of delivering high performance till the system is operational. In this context, it is required that the application and deployment architecture should provide for Scale-Up and Scale out on the Application and Web Servers, Database Servers and all other solution components.	Please provide the tentative count of concurrent users accessing the ICCC application from various departments. This helps the bidder to provide necessary servers, storage based on concurrent user base to deliver the high performance.	Refer Scope of Work in Volume 2 of the RFP
734	2	Annexure A: Guiding Principle for Smart City Solutions Development	311	The expectation is that the system should sustain at least 10 years from GO-Live.	Please provide the growth percentage of concurrent user base of ICCC application for atleast next 5 years.	MSI to ascertain the same through pre-proposal survey
735	2	Annexure: Standards and Guidelines	312	The entire information Technology (IT) infrastructure deployed as part of Smart city should follow standards like ISO- 27001, ISO- 22301, ISO 37120, ISO 3712, ISO 27017, ISO 27018, BSIS PASS 180 BSI PAS 181, BSI PAS 182 for Wi-Fi access – PEAP(Protected Extensible Authentication Protocol), 3rd Generation Partnership Project (3GSPP) Etc., As appropriate	Amendment Request: Bidder should include Control and compliance with automated tool to protect and detect any changes that violate the security policies defined by MERS to meet ISO27001 and other guidelines in this RFP. Hence request to add minimum specifications as below : Compliance tool should provide entire risk and compliance lifecycle from policy and exception management through technical	As per RFP

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					and procedural controls assessment o The solution should have the capability to capture, ingest and correlate GRC data from multiple sources in support of Continuous Monitoring needs -Support web-based workflow for policy review, acceptance, rejection and publishing to end users Out-of-the-box support for regulations like PCI, SWIFT, GDPR, BASEL, ISO 27001, NIST Cyber Security Framework, FISMA, GLBA, HIPAA, MAS-IBTRM, CIS Critical Security Controls, COBIT, COSO, DISA STIG, SANS 20 Critical Security Controls Support a comprehensive library of controls that allow for multi-mandate reporting and customization -Provide the ability to map custom controls to third party evidence sources for compliance reporting. -It should discover the software stacks that are deployed on the instances and provide a comprehensive view of the potential threats and vulnerabilities that must be acted upon. It should also provide compensating controls for compliance failures, lock down OS, applications, and databases; prevent unauthorized executable from being introduced or run. Also request to modify CostBreakupSheet to add new BoM for Compliance tool, Quantity 1 No	
736	2	Annexure B: Disaster Management	315	Disaster management system	Kindly confirm whether we need to include separate module for Disaster management system in the integrated command control centre	MSI to design to cater to the functional requirement

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737	2	Data Centre	-	DC Core / Aggregation Router	In the CORE router specification, it is mentioned as Chassis at one point, while fixed router at another point. It is to be noted that, a router can either be chassis based or fixed form factor and it cannot be both at the same time. Hence, we are requesting to provide more clarity on the requirement.	MSI can choose any type of form factor
738	2	Traffic Violation Detection System | Scope of Work	-	General Query	§ wrong direction movement § No Helmet § On-street parking § Use of cell phones while driving § No Seat-belt § Triple Riding There is a requirement in the specification of the above mentioned use cases that says that the violators shall be booked by generating the e-Challan, which is only feasible by capturing the number plates along with the image of violators. Hence, requesting to include the number plate capture for the above mentioned use cases	As per RFP
739	2	Traffic Violation Detection System | Free Left lane blocking violation	-	General Query	For Free left system, additional cameras are required in order to capture the violation when vehicles block the FREE LEFT area. You are requested to incorporate the same in Bill of material as per requirement.	As per RFP
740	2	Traffic Violation Detection System | On-Street Parking	-	General Query	Kindly confirm the following:- 1) If the designated area is at the junction, then the same ANPR cameras (which will be used for RLVD system) will capture the Parking violation. In that scenario, no additional cameras are required.	Yes, the ANPR cameras installed at respective junction will capture the on-street parking violation

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					2) If the designated areas are other than the RLVD junctions, then, additional cameras are required for No Parking Violation Detection. Kindly incorporate the number of cameras required for NO parking in Bill of material.	
741	2	Traffic Violation Detection System | Use of Cell phone while driving	-	General Query	Since RLVD system works from the backside (mounted at the backside), No Seat belt & use of cell phone while driving violation will not be possible from the RLVD set of hardware. In order to capture these violation, additional cameras are required which will be mounted at the front side. Kindly incorporate the number of cameras required for these violations in Bill of material or remove this requirement.	MSI to decide
742	2	Traffic Violation Detection System | No Seat-Belt	-	General Query	Since RLVD system works from the backside (mounted at the backside), No Seat belt & use of cell phone while driving violation will not be possible from the RLVD set of hardware. In order to capture these violation, additional cameras are required which will be mounted at the front side. Kindly incorporate the number of cameras required for these violations in Bill of material or remove this requirement.	MSI to decide
743	2	Facial Recognition System	-	General Query	3. Facial Recognition System Separate line item is not given for FRS solution. Kindly confirm whether we can consider FRS for 50 license out of 4500 AI	It should be on all camera

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744	2	Project Payment Schedule	-	General Query	We also request that the payment for O&M be made quarterly in Advance. This is because our experience is that there normally is lot of delays in getting third party auditor's certificate regarding quarterly SLA in addition the delay in processing of bills from the client. In such situation the delay in quarterly payment causes tremendous pressures on the MSI's financials.	As per RFP
745	2	Project Payment Schedule	-	General Query	If the authority fails to make payments beyond 90 days of the submission of invoices, it will pay interest charges @12% per annum on the invoice value along with the invoice amount. Late Payment interest is valid as per Apex Court ruling.	As per RFP
746	2	GIS	-	Additional Proposed Clause	With respect to performance requirement, Please let us know the number of Users accessing GIS application: -Internal intranet web GIS users (tentative) -Public facing internet web GIS users (tentative)	MSI to collect the relevant information
747	2	Network Connectivity	-	Additional Proposed Clause	We request RSCL to kindly confirm that Right-of- Way (RoW) and RI charges will not be applicable/ waived off for this project.	MSI needs to budget costs associated with any approvals required during project implementation Please refer to Clause 26.3 of Volume 3 of this RFP for details

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748	2	ANPR	-	Additional Proposed Clause	Request to add the clause Input Power : DC 12V/30W & POE Power IEEE802.3at	As per RFP
749	2	RLVD	-	Additional Proposed Clause	Request to add the clause Input Power : DC 12V/30W & POE Power IEEE802.3at	As per RFP
750	2	Fixed Camera	-	Additional Proposed Clause	Request to add the clause Input Power : DC 12V/30W & POE Power IEEE802.3at	As per RFP
751	2	Smart Classroom	-	General Query	Surface Independent Interactive Device: This Interactive device can make more than 92" diagonal area Interactive. Lowest maintenance cost	As per RFP
752	2	Smart Classroom	-	General Query	Software Should have the following interactive tools/features like Pen, Eraser, spot light, curtain, shape recognition, shape editing, auto grouping, infinite color options for annotation, color bucket, back ground pattern, lines & arrows, screen capture tools (freehand capture is must), import / export files, recycle bin, unlimited pages, Cut & Paste, page navigation, save page(s), Undo/Redo, Geometric Tools like protractor, compass, ruler etc. Should have recording feature, Must have "Cloud Access" in Interactive Whiteboard Application to access filtered free educational content on any topic in the world from WWW. These feature help teacher to guide student hassle free	As per RFP
753	2	Data Centre	-	General Query	Section DCH/TR/7.02 to DCH/TR/7.12 & section DCH/TR/7.20 to DCH/TR/7.29 are two separate server specification	Please refer to the Corrigendum

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					description. Only one should be retained Deleting one of the sections is requested to avoid misunderstanding during quoting & evaluation.	
754	2	ATCS Software Application	-	Additional Proposed Clause:	Adaptivity is based on detected traffic densities and patterns, not just on presence of vehicles Justification: New clause for better performance and inline to detector specification. This will ensure better global optimisation.	As per RFP
755	2	ATCS Software Application	-	Additional Proposed Clause:	The system shall have true real-time adaptivity. Adapts to traffic present at this very instant (not only statistically) Justification: New clause for better performance. The system shall use the locally generated data to optimise splits as well to achieve better throughputs.	As per RFP
756	2	ATCS Software Application	-	Additional Proposed Clause:	Supplying of calibrated traffic simulation models for AM peak, PM peak, inter-peak and off-peak for weekday and peak and off-peak for Saturdays and Sundays covering all the ATCS junctions Justification: New clause as per city requirements. This would enable the enhanced system to use machine learning based prediction along with the validations.	As per RFP
757	2	ATCS Software Application	-	Additional Proposed Clause:	The ATCS system shall predicts future flows at each junction on the central ATCS server. The prediction function shall use a network model resulting in consistent flows across a group of junctions	As per RFP

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					Justification: Prediction will enable the better optimisation of traffic by forecasting the upcoming traffic conditions.	
758	2	ATCS Software Application	-	Additional Proposed Clause:	The ATCS system shall use Machine Learning based prediction modelling. The models shall be calibrated once the system stabilises after a duration of 2-3 months after the deployment.

Justification: ML will improve optimisation efficiency | As per RFP |
| 759 | 2 | ATCS Software Application | - | Additional Proposed Clause: | Traffic signal adaptation shall continue even if communication with the server is interrupted

Justification: This is an important addition considering the faults may come in the connectivity | As per RFP |
| 760 | 2 | ATCS Software Application | - | Additional Proposed Clause: | Decisions are optimized based on statistics as well using the historic data, which is supported by the traffic data warehouse

Justification: New clause for better performance | As per RFP |
| 761 | 2 | ATCS Software Application | - | Additional Proposed Clause: | Even if one or multiple cameras fail, information from nearby signals, from the cameras that continue to function (and there is some overlap), and from previously generated statistics is used to continue adaptivity; till the fault is corrected

Justification: New clause for better performance | As per RFP |
| 762 | 2 | ATCS Software Application | - | Additional Proposed Clause: | Standard communication protocol with the controller: UG405 | As per RFP |

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					Justification: New clause for standards compliance	
763	2	ATCS Software Application	-	Additional Proposed Clause:	Traffic Data Report - The report off classified counts data along with the vehicle presence data for each approach of the junctions shall be seen from ATCS application only. Justification: New clause. This data will help for planning purposes and will not cost anything extra.	As per RFP
764	2	Microprocessor Based Pedestrian Pelican Traffic Signal Controller	-	Additional Proposed Clause:	The proposed pelican system shall be able to upgrade to an advanced pedestrian crossing by interfacing with pedestrian detectors and vehicular detector. At minimum the shall controller shall be able to take pedestrian presence between the road and extend the pedestrian phase. Justification: New clause keeping in mind further upgradation. This would enable to implement the automated pedestrian crossing with pedestrian and vehicular sensors.	As per RFP
765	2	Microprocessor Based Pedestrian Pelican Traffic Signal Controller	-	Additional Proposed Clause:	The pelican control room application shall display the current stage and the executed stage times. Justification: New clause to provide status to ICCC	As per RFP
766	2	Microprocessor Based Pedestrian Pelican Traffic Signal Controller	-	Additional Proposed Clause:	The pelican controller shall connect to the control room using industry standard protocol such as UG405	As per RFP

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					Justification: New clause to provide better system	
767	2	Countdown Timer	-	Additional Proposed Clause:	Adaptable: The timers shall be able to work in adaptive mode by jumping times. It should directly interface with the controller and reduce or extend the stage timings as per the real time traffic demand. No self-learning timers will be accepted. Justification: This would ensure the timing being displayed in ATCS/VA modes as well.	As per RFP
768	2	Network Connectivity	-	General Query	Kindly clarify scope for Right of Way (RoW), we understand the same is in client scope	Yes
769	2	Data Centre	-	General Query	Please elaborate/Include technical feature requirements specification for Virtualization Software and Management solutions?	As per RFP
770	2	Data Leakage Prevention (DLP)	-	General Query	5 Data Leakage Prevention (DLP) , 6 End Point Data Monitoring & Protection These both sections belongs to DLP only. Please do necessary changes	As per RFP
771	2	End Point Data Monitoring & Protection	-	General Query	End Point Data Monitoring & Protection: These both sections belongs to DLP only. Please do necessary changes	As per RFP
772	2	Data Leakage Prevention (DLP)	-	General Query	This ensure that fair chance is given to both the OEM. Please confirm whether below mentioned capabilities has to be part of endpoint DLP and from same OEM or they can be from different OEM functionally met by other solution and exclusive of DLP: Endpoint Data Monitoring and Protection Data Identification and Policy Management Automated Response and Incident Management Role Based Access Control and Privacy Control	MSI may propose single or multiple OEM to cater the requirement of RFP and deliver functionalities meeting the SLA requirements

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				Reporting and Analysis Storage Management Monitoring		
773	2	Server Management	-	General Query	DCH/TR/7.23 to 7.32 Kindly delete these clauses as licenses for server management software from any OEM comes integrated within server. This looks like a typo as we already have blade server specs mentioned in RFP and there is no need of different hardware specs for management server.	As per RFP
774	2	Unified Communication	-	General Query	Unified Communication requirement has been mentioned in the RFP under the functional requirement, however, there is no technical specs being provided for the same and hence we would request to provide a technical specs for the same. This is a very important component in the overall smart city RFP for the inter-departmental communication using various types of communication channels.	Unified Communication is not within the scope of this RFP
775	2	Web Security	-	General Query	Please confirm the total number of users to be supported from day one Since the leading Web Security OEM solution is sized on the basis of number of users accessing internet. Hence please share the number to be supported from day one.	MSI to ascertain the same through pre-proposal survey
776	2	Data Leakage Prevention (DLP)	-	General Query	Please confirm whether Rourkela Cybersecurity Policy has predefined guidelines for data classification or MSI to do the same As per our understanding users would have limited access to internet and hence would	National Cybersecurity policy 2013 as notified by Department of Electronics & IT dated 02 July

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					like to understand the attribute which needs to be considered for classification	2013 would be applicable
777	2	Data Leakage Prevention (DLP)	-	General Query	Please confirm whether below mentioned capabilities has to be part of endpoint DLP and from same OEM or they can be from different OEM functionally met by other solution and exclusive of DLP: Endpoint Data Monitoring and Protection Data Identification and Policy Management Automated Response and Incident Management Role Based Access Control and Privacy Control Reporting and Analysis Storage Management Monitoring This would restrict the participation and give undue advantage to DLP only OEM. There are well-known Data Monitoring, ITSM and other security vendor in industry.	MSI may propose single or multiple OEM to cater the requirement of RFP and deliver functionalities meeting the SLA requirements
778	2	-	-	General Query	1. Patch Management 2. SDLC – Automated code Analysis 3. Penetrations testing - Periodically - Request customer to define a frequency to adhere 4. Vulnerability Analysis - Half-Yearly 5. Web Application Security testing 6. STQC Information security testing and assessment 7. ISO 27001 Compliance 8. Compliance to Cyber Security Model Framework for Smart Cities vide Ministry of Housing and Urban Affairs Compliance 9. SSO	As per RFP

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					Kindly include the same in the BOQ as these are part of functional requirement.	
779	2	-	-	General Query	Proposed solution should provide Gartner Leader for Blade servers, Storage, Hypervisor, Networking switches & Backup software Request to include Gartner certificate for major Infrastructure Tenets for making overall solution Enterprise grade.	As per RFP
780	2	-	-	General Query	Request you to confirm whether, Rourkela Smart City Limited is a Government organisation under GST Act definition.	Please refer to the Citizen's Charter of Rourkela Smart City Limited
781	2	-	-	General Query	Request you to provide supporting documents to substantiate if the answer to general query 1 is yes	Please refer to the Citizen's Charter of Rourkela Smart City Limited
782	2	-	-	General Query	Request you to confirm whether, Rourkela Smart City Limited is a Non-profit making organisation.	Please refer to the Citizen's Charter of Rourkela Smart City Limited
783	2	-	-	General Query	Please share the layout of command control centre, data centre and DR for designing IBMS system	The Layout will be provided during requirement study stage
784	2	-	-	General Query	Intellectual Property Declaration to be provided by OEM: The product or any part thereof, manufacturing process, process technology, or methodology doesn't infringes or misappropriates any Intellectual Property Right of a third party.	As per RFP

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					This will help in procuring genuine products from genuine OEM	
785	2	-	-	General Query	Intellectual Property Declaration support to be provided by Bidder: The bidder shall indemnify, hold harmless and, if requested by RMSA, defend RMSA and/or its affiliate departments, and their officers, directors, employees, customers, successors and assigns from and against any claims, demands, liabilities, or losses, damages, and expenses related to any product liability or similar claims, any intentional misconduct or negligence by Supplier or its employees in performing its obligations, and/or any claim that a product or any part thereof, or Supplier's manufacturing process, process technology, or methodology infringes or misappropriates any Intellectual Property Right of a third party.\n\nThis will safe guard the department from any legal issues after procuring the product	As per RFP
786	2	-	-	General Query	ISO 9001 for quality & ISO 14001 for Environment from Interactive device OEM\n\nThis will be in procuring quality products	As per RFP
787	2	-	-	General Query	Pls ensure that the new ICCC system should be able to seamlessly integrate with the existing ICCC platform in BSCL. This clause will ensure that the integration between the 2 smart city platforms happens in a seamless manner and the information sharing can also happen smoothly	As per RFP

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788	2	-	-	General Query	The ICCC platform should be Navigant certified to ensure the quality	As per RFP
789	2	-	-	General Query	The bidder should propose a secure analytics solution which should give Complete visibility and contextual awareness of users, workloads, and network and application behaviour. The solution should be able to provide Dynamic Application dependency mapping and near-real time Network Behavioural Analysis. Having a diversified and multivendor applications in the Smart city network, it becomes very difficult for the network admins to troubleshoot issues involving, ulti-vendor products. The secure analytics solution provides a very lucid report and helps to pinpoint the issues by fetching information from L2-L7 level.	As per RFP
790	2	-	-	General Query	The solution should provide monitoring and display of each and every process, process ID, Process owner, Process mapping running on both physical and virtual servers hosting command centre platform.	As per RFP
791	2	-	-	General Query	To ensure end to end performance of command control centre, the solution should provide network buffer utilization, burst detection, network latency, packet drops etc. and should support REST API as well as KAFKA based push events. The solution should provide network buffer utilization, burst detection, network latency, packet drops etc. and should support REST API as well as KAFKA based push events.	As per RFP
792	2	-	-	General Query	The solution should provide accurate inventory of the installed software packages on the workloads to quickly identify any	As per RFP

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					known vulnerabilities and exposures. It should then provide actions to quarantine or restrict communications based on vulnerabilities or vulnerability score.	
793	2	-	-	General Query	Proposed backup software should be in leader's quadrant of 2017 Gartner report for Enterprise Backup software and recovery solutions. This will help department to ensure only the proven solution vender are participating who has innovative roadmap to support smart city project in line run.	As per RFP
794	2	-	-	General Query	Backup Solution must support multi tenancy feature for creation of distinct data zones where the end users have access without being able to view data, backups, recoveries, or modify in other data zones. This feature would be needed to have isolated use of backup resources as per defined secure zones in order to main the data security as per Smart City security standards.	Backup Solution should support multi tenancy feature for creation of distinct data zones where the end users have access without being able to view data, backups, recoveries, or modify in other/different data zones.
795	2	-	-	General Query	Please elaborate/Include technical feature requirements specification for Virtualization Software and Management solutions?	As per RFP
796	2	Data Centre	-	General Query	DCH/TR/13. Solution will be security effective with the capability mentioned and hence the	As per RFP However, MSI can provide

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					certifications and the NSS labs provide that effective matrix. Solution shall achieve the following industry recognized security certification standards: • Common Criteria Protection Profile • FIPS 140-2 • Tested and achieve recommended status by NSS Labs Next Generation Firewall Group Test. With blocking 99.95 percent of exploits in NSS Labs	equivalent or better solution and adhere to the SLA requirements as per the RFP
797	2	Data Centre	-	General Query	DCH/TR/13. Multiple ISP aggregate that help in utilizing all the ISP links. And better utilization for the same. Solution shall support minimally 5 independent ISP/WAN connections concurrently and the ability to combine and aggregate multiple ISP/WAN link. (not just active/standby)	As per RFP However, MSI can provide equivalent or better solution and adhere to the SLA requirements as per the RFP
798	2	Data Centre	-	General Query	DCH/TR/5 The solution should provide the report builder where the multiple reports can be generated based on the multiple parameters such as Source, destination, time etc. Reporting is required with the granular controls to monitor the internet usage and the security attacks blocked. Hence should be part of the solution. It also helps in reducing the administration overhead.	As per RFP

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799	2	Data Centre	-	General Query	DCH/TR/27 The solution should provide URL analysis that allow potentially malicious URLs classified by the filter to be removed or modified for neutralization. This helps in stopping the URL based attacks on the Email and hence required of the modified URL to be neutralized so that impact of the URL will be blocked.	As per RFP
800	2	-	-	General Query	Solution OEM should have in India for last 10 years with Support centre in India, supporting customer for last 5 years.	As per RFP
801	2	Data Centre	-	General Query	Specifications of the below DC hardware & software components mentioned in the vol2 of RFP. No. 4 DLP solution in Page 113, No. 5 Endpoint data monitoring & protection in Page 114, No. 24 Directory services in Page 144 Request authorities to clarify if the bidder has to consider these DC components as these are not mentioned in the RFP BOQ but specifications are mentioned in the RFP.	As per RFP
802	2	Website/Portal and Mobile Application	-	General Query	Should Portal and mobile application be from same platform?	As per RFP MSI can design the solution to meet the functional requirements of the RFP

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803	2	Website/Portal and Mobile Application	-	General Query	Mobile app needs to be developed for native or hybrid please clarify	As per RFP
804	2	Website/Portal and Mobile Application	-	General Query	Should the proposing portal be OWASP 10 compliant?	As per RFP
805	2	-	-	General Query	Gartner's Magic Quadrant/Forrestor Wave Report are considered internationally as benchmark for quality. Request to incorporate that the proposed platform by System Integrator should have presence in any of these report of relevant category.	As per RFP
806	2	-	-	General Query	The MSI shall optimize the overall solution to avoid any duplication and to achieve the desired functionality and outcome of the RFP.	Yes
807	2	Traffic Violation Detection System	-	General Query	Intelligent Traffic Management System | 9. Use of Cell phone while driving

Since RLVD system works from the backside (mounted at the backside), No Seat belt & use of cell phone while driving violation will not be possible from the RLVD set of hardware. FYIP, the requirement cannot be fulfilled with surveillance cameras since it require different FoV, height should be approx. 2 to 2.5 Meters from ground(prone to tampering) and orientation of cameras, kindly provide additional cameras qty. Practical challenges wrt to solution would be for eg; wind screen reflection, outside lighting concerns, Gesture concern, person talking over Bluetooth, interior, person dresses hence Belt not visible clearly which all may have impact in expected results. So | As per RFP MSI to decide. |

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					request you to pl. revisit requirement and suggest.	
808	2	Traffic Violation Detection System	-	General Query	Intelligent Traffic Management System | 10. No Seat-Belt Since RLVD system works from the backside (mounted at the backside), No Seat belt & use of cell phone while driving violation will not be possible from the RLVD set of hardware. FYIP, the requirement cannot be fulfilled with surveillance cameras since it require different FoV, height should be approx. 2 to 2.5 Meters from ground(prone to tampering) and orientation of cameras, kindly provide additional cameras qty. Practical challenges wrt to solution would be for eg; wind screen reflection, outside lighting concerns, Gesture concern, person talking over Bluetooth, interior, person dresses hence Belt not visible clearly which all may have impact in expected results. So request you to pl. revisit requirement and suggest.	As per RFP. MSI to decide
809	2	-	-	General Query	Kindly provide the list of locations with lane and arm details for better understanding of the bidder.	MSI to ascertain the same through pre-proposal survey
810	2	-	-	General Query	Enterprise Database | DCH/TR/23.01-DCH/TR/23.33 We understand that Enterprise DB is not applicable for solution having bundled Databases hence not applicable to all systems, pl. allow	MSI to design the solution in such a way(single or multiple DB) so that all applications

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						should be able to provide the data to enterprise Database to run various analytics and adhere to the functional requirements and SLA as per the RFP
811	2	-	-	General Query	There is no Internet Router specification in this RFP but it was part of previous edition. Requesting clarity if the same needs to be factored by bidder.	As per RFP
812	2	Authentication, Authorization and Access (AAA)	-	General Query	Requesting the below informations-- How many concurrent devices for AAA authentication from Day 1? How many devices for endpoint posture check from Day 1? How many unique guest users are expected daily? What kind of redundancy is required? Single location (DC-1:1) or multiple locations (DC-DR).	As per the number of devices getting deployed on day 1
813	2	Server Management	-	General Query	Clauses 7.23 to 7.32 Kindly delete these clauses as licenses for server management software from any OEM comes integrated within server. This looks like a typo as we already have blade server specs mentioned in RFP and there is no need of different hardware specs for management server.	As per RFP

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814	2	Public Address System (PAS)	-	General Query	As per the RFP, PA system is to be installed in 29 locations. In RFP BoQ, number of speakers has not been mentioned. To have a common understanding among all bidders, kindly specify number of speakers required per junction as it will have an impact on BoQ.	As per RFP
815	2	Public Address System (PAS)	-	General Query	IP rating of speakers is an important parameter. To have a common understanding among all bidders, kindly specify IP rating of speakers	As per RFP
816	2	Data Centre	-	General Query	Smart Network iRack Specifications (Pg. 108) Racks and PDU (Pg. 183) Two specifications are given for racks in datacentre. Kindly confirm which is to be considered	iRack specifications to be considered
817	2	Intelligent Traffic Management System	-	General Query	1) Kindly clarify the storage requirement for ATCS in both DC and DR. 2) Kindly clarify the storage requirement for TVDS in both DC and DR.	As per RFP
818	2	VMS	-	General Query	6.73 Shall allow an alarm procedure document (.html, text or URL) to be associated with a site or to an individual alarm zone. This procedure document shall be displayed when an alarm happens. 6.98 Shall be able to display alarm procedure document for the alarm. 6.103 Shall be able to escalate alarms to other user groups if the alarm is not acknowledged within a pre-defined time period. 6.104 Shall be able to escalate alarms to	As per RFP

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					other user groups if the alarm is not cleared within a pre-defined time period. 6.105 Shall support different escalation time periods for different alarm priorities. 6.106. Shall be able to propagate an alarm to other areas (zones) if the alarm is not acknowledged within a pre-defined time period. To be removed from VMS scope: As alarm Procedure is a part of Central command and Control (CCC) software where CCC software can get alarms form VMS. Considering Alarm procedure in both VMS and CCC software will cost double to client.	
819	2	Traffic Violation Detection System	-	General Query	Speed violation through video analytics Speed detection is recommended by use of Radars Justification: Video based systems are error prone and based on number plates. They are not certified and do not have any legal decree. Radar and laser sensor based systems are recommended which are OIML R 91 , D11 qne welmec 7.2 legal metrology certified and have a legal decree to be used for fine collection.	As per RFP
820	2	Smart Classroom	-	General Query	To Include - Student Analytic Software, Multimedia Content Software. Please confirm who will be providing the content. Education Management: Multimedia Content Software and Student Analytics Software for Smart Classroom will be require for facilitate smart Education	As per RFP

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821	2	-	-	General Query	To Include - e Health Software System e-Primary Healthcare Software System (Early Childhood Care Centres (E3C), Upgradation of Auxiliary Nurse Midwife (ANM) Centre etc.)is require for Smart Healthcare management; Please address it in MSI Tender for Rourkela Smart City	As per RFP
822	2	Public Address System (PAS)	-	General Query	UPS for PA system Pls confirm the UPS capacity, backup time & I/O configuration	As per RFP
823	2	-	-	General Query	Performance Parameters - L7 Request per second and Appliance throughput is not specified Request you to add followings: Layer 7 Request per second as minimum 3 M Appliance throughout of minimum 140 Gbps	As per RFP
824	2	EMS	-	General Query	Proposed EMS solution should be among the leaders world-wide and recognized by leading analysts like Gartner / IDC / Forrester, etc. Justification: Solutions/tools having been analysed & recognized by leading analysts ensures that an industry standard solution is being proposed. This is important because the NMS/EMS is the only solution that gives visibility into the project and is responsible for SLA measurements and audits, and therefore all the stakeholders must agree to the reports been generated from NMS/EMS. So, a solution recognized by any leading analyst ensures and	As per RFP

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					warrants an industry-standard solution is being used.	
825	2	EMS	-	General Query	Since integration of NOC and SOC is critical for project success. Requesting you to please include the following clause in EMS section: "There should be a tight bi-directional integration between NOC and SOC to have the single consolidated console of Infrastructure & security events." Justification: Looking at latest industry trend towards SecOps / NSOC, seamless integration between NOC and SOC provides the consolidated view of security and network events in single dashboard. Correlation and enrichment allows to analyze the impact of network outage on security and vice versa. This provides the quicker root cause analysis and resolution of outage.	As per RFP
826	2	-	-	General Query	There are analytics use case mentioned at 3 different sections of the RFP page no, 20, 233 and 301, We understand qty 4500 nos given in RFP BOQ is combination of all, kindly confirm	Yes
827	2	-	-	General Query	Fuel Recurring Costs during AMC period of 5 years for items such as DG set, etc. shall be paid at actuals to the MSI over and above the contractual value. Kindly clarify	MSI needs to budget the cost for the same
828	2	-	-	General Query	We understand the one time power connection charges and recurring charges for AMC period of 5 years for all the locations shall not be borne by MSI and same shall not be a part of our Bid price. It would be directly paid by RSCL to the electricity board. Kindly confirm.	Yes

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829	2	Smart Classroom	-	General Query	We request you to please confirm if two way audio and video calls are required in the smart classroom so that the teacher present in one classroom can teach students present in the other classrooms. If yes, please add the below mentioned minimum specifications: a) The VC endpoint should be hardware based H.264, SIP, H.239, IVP4, IPV6, BFCP, with 1080p camera 10x optical zoom pan and tilt, 3 microphones, 1080p content, wireless content sharing from touch panel. b) The unit should have two 2 x HDMI Input ports and 2 x HDMI video output ports c) The codec should be add an automatic voice tracking camera in future.	As per RFP
830	2	Data Leakage Prevention (DLP)	-	General Query	To ensure fair chance is given to both the OEM, Please confirm whether DLP and Web Security Solution should be from different OEM	MSI may propose single or multiple OEM to cater the requirement of RFP and deliver functionalities meeting the SLA requirements
831	2	-	-	General Query	The switch should able to deliver the 60 Watt (HPOE) for minimum 3 ports PTZ Cameras required PoE power of upto 50W for which Switch should need to support HPoE 60W. Should support Dynamic ARP Inspection, ARP spoofing It's an industry open standard to mitigate	As per RFP

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				man-in middle attacks Should support OSPF and PIM-SM For Layer3 multicasting switch should support open standard Layer 3 protocol to enable the feature. The switch should have USB interface Justification: Easy management purpose like OS file, configurations and other files to be stored for backup and distribution to other devices		
832	3	1.25	2	"Go-Live" means commissioning of the project after commencement of all smart city components, including training as per Scope of Work mentioned in RFP. MSI should have the approval from the Client for user acceptance testing.	We understand the FAT and UAT shall be same and shall be done for 5% of the components to issue Go-Live certificate of corresponding phases. Kindly Confirm.	Please refer to the Background and Scope of Work section in Volume 2 of this RFP for details.
833	3	3.1	5	Furnishing by MSI, of an unconditional and irrevocable Performance Bank Guarantee (PBG) being 10% of the Contract Value (Annexure 5 (a) of the RFP Volume I) in the form acceptable to the Client within 15 (fifteen) days after issuance of Letter of Award (LoA) which would remain valid until such time as stipulated by the Client.	Instead of one PBG of 10% of the contract value. We request RSCL to ask for two PBGs; details of which are as follows: 1. 1st PBG for 10% of the Total Capex Cost of the contract and to be valid beyond 3/6 months of Go-Live. 2. 2nd PBG for 10% of the Total Opex Cost of the contract and to be valid for 3 months beyond the contract period. Two or more such PBGs are now being allowed in many RFPs and same can be shared upon request.	As per RFP
834	3	3.2	5	Obtaining all statutory and other approvals (including but not limited to obtaining third party approvals) required for the performance of the Services under this Contract.	Please elaborate? We assume approvals from various department shall be obtained by the customer and not MSI?	As per RFP Please refer Clause 18 of

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						Volume 3 of this RFP.
835	3	3.6	5	3.2 Obtaining all statutory and other approvals (including but not limited to obtaining third party approvals) required for the performance of the Services under this Contract. 3.6 In the event that any of the conditions set forth in Clause 3 hereinabove are not fulfilled within 1(one) month from the date of this Contract/or execution of the Letter of Award (LoA) whichever is earlier, or any other later date as may be mutually agreed upon by the Parties, the Client may without prejudice to its rights under Applicable Law be entitled to terminate this Contract and forfeit the Earnest Money Deposit provided by the MSI.	Based on our experience, we would like to highlight that all required Statutory approvals for job cannot be obtained in 1 month. Since the MSI is obliged to complete the Job in the contractual time, MSI will plan accordingly for obtaining the required approval during the course of Contractual period. So Kindly request you to remove the clause 3.2 & 3.4 from "3 Conditions Precedent"	As per RFP
836	3	15.3	7	The Client reserves the right to amend any of the terms and conditions in relation to the Contract/Scope of Work/Service specifications and may issue any such directions which are not necessarily stipulated therein if it deems necessary for the fulfilment of the Scope of Work.	Client reserves the right to amend any of the terms and conditions in relation to the Contract/Scope of Work/Service specifications and may issue any such directions which are not necessarily stipulated therein if it deems necessary for the fulfilment of the Scope of Work **in** Consultation with the MSI For any additions of the Contract/Scope of Work/Service specifications sufficient time and cost will be compensated based on the mutual discussion with MSI.	As per RFP
837	3	18.1	8	The Client shall extend necessary support to MSI to obtain, maintain and observe all relevant and customary regulatory and governmental licenses, clearances and applicable approvals (hereinafter the	We understand that all charges incurred towards RoW approvals and any other statutory approvals to complete project shall be borne by RSCL and the same shall not be a part of our Bid price. Kindly	As per RFP

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				"Approvals") necessary for MSI to provide the Services. The costs of such Approvals shall be borne by MSI. Both Parties shall give each other all co-operation and information reasonably.	Confirm

We understand that if in event of delay from obtaining approvals, the same shall be considered by RSCL and successive timelines shall be amended. Kindly Confirm. | |
838	3	18.1	8	The Client shall extend necessary support to MSI to obtain, maintain and observe all relevant and customary regulatory and governmental licenses, clearances and applicable approvals (hereinafter the "Approvals") necessary for MSI to provide the Services. The costs of such Approvals shall be borne by MSI. Both Parties shall give each other all co-operation and information reasonably.	We understand that all charges incurred towards RI (Restoration or Reinstatement of any kind) and any other approvals to complete project shall be borne by RSCL and the same shall not be a part of our Bid price. Kindly Confirm	As per RFP
839	3	19.4	8	The Client reserves the right to review the terms of the Consortium contract or any contract or agreements entered into by and between the members of such Consortium and no such agreement/contract shall be amended, modified and/or terminated without the prior written consent of the Client. An executed copy of each of such agreements/contracts shall, immediately upon execution after obtaining prior permission of the Client be submitted by MSI to the Client. Further, the composition of the Consortium shall not be altered without prior consent of the Client.	Request you to amend the clause as below 19.4 The Client reserves the right to review the terms of the Consortium contract or agreements entered into by and between the members of such Consortium and no such agreement/contract shall be amended, modified and/or terminated without the prior written consent of the Client. An executed copy of each of such agreements/contracts shall, immediately upon execution shall be submitted by MSI to the Client during bid submission. Further, the composition of the Consortium shall not be altered without prior consent of the Client.	As per RFP
840	3	20.6	9	MSI shall ensure that none of the key personnel (refer Section 6.1.1 of the RFP Volume 1 proposed) and manpower exit from the project during first 6(six) months of the beginning of the project. In such cases	We understand that due to unforeseen conditions if the proposed key personnel's are not deployed the penalty is applicable. However, we request you to amend the clause as below:	As per RFP

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				of exit, except for medical reason/death/resignation a penalty of INR 2,00,000 (two lakhs) per such replacement shall be imposed on MSI.	"MSI shall ensure that none of the key personnel (refer Section 6.1.1 of the RFP Volume 1 proposed) and manpower exit from the project during first 6(six) months of the beginning of the project. In such cases of exit, except for medical reason/death/resignation a penalty of INR 50,000 (Fifty Thousand) per such replacement shall be imposed on MSI."	
841	3	20.12	10	MSI shall be fully responsible for deployment/installation/development and integration of all the software and hardware components and resolve any problems/issues that may arise due to integration of components.	MSI shall be fully responsible for deployment/installation/development and integration of all the software and hardware components supplied by the MSI and resolve any problems/issues that may arise due to integration of components.	As per RFP
842	3	20.13	10	It must clearly be understood by MSI that warranty and O&M of the System, products and services incorporated as part of System would commence from the day of Go-Live of the System as complete Smart city solutions including all the solutions proposed.	Kindly request you to amend the following clause:-

It must clearly be understood by MSI that warranty and O&M of the System, products and services incorporated as part of System would commence from the day of Go-Live of the System of the respective Phase | Please refer to Corrigendum. |
| 843 | 3 | 20.13 | 10 | MSI shall ensure that the OEMs supply equipment/components including associated accessories and software required and shall support in the installation, commissioning, integration and maintenance of these components during the entire period of Contract. MSI shall ensure that the OEMs supply the software applications and shall support in the installation/deployment, integration, rollout and maintenance of these applications during the entire period of Contract. It must | Please clarify what happens if the site availability is delayed without the fault of the MSI? To protect MSI form cost escalation and eventual loss; request to go for solution wise Go Live. Even in this case if making of any site available is delayed for inordinate time period. Go Live should be calculated for the number of sites commissioned and the payment should be made on pro rata basis. This is by a fair request on part of the MSI. | Please refer to Corrigendum. |

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				clearly be understood by MSI that warranty and O&M of the System, products and services incorporated as part of System would commence from the day of Go-Live of the System as complete Smart city solutions including all the solutions proposed. MSI would be required to explicitly display that he/they have an arrangement for provisioning of warranty/O&M support till the end of Contract period with the relevant OEMs. The annual maintenance support shall include patches and updates the software, hardware components and other devices.	Even the delivery should happen segregated based on the site readiness confirmation from customer.	
844	3	20.14	10	All the software licenses that MSI proposes should be perpetual software licenses. The software licenses shall not be restricted based on location and the Client should have the flexibility to use the software licenses for other requirements if required.	All the software licenses that MSI proposes should be perpetual software licenses / as per the Industry standards. The software licenses shall not be restricted based on location for the intended purpose and the Client should have the flexibility to use the software licenses for other requirements if required for the intended purpose	As per RFP
845	3	20.15	10	All the OEMs that MSI proposes should have dealer/ manufacturer possession licenses.	Dealer/ manufacturer possession licenses is not relevant in this case, request deletion.	As per RFP
846	3	20.16	10	The Client reserves the right to review the terms of the warranty and annual maintenance agreements entered into between MSI and OEMs and no such agreement/contract shall be executed, amended, modified and/or terminated without the prior written consent of the Client. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted by MSI to the Client.	MSI can't disclose the entire agreement as well as cost for such contract as the same is under NDA. Request deletion.	As per RFP

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847	3	20.16	10	The Client reserves the right to review the terms of the warranty and annual maintenance agreements entered into between MSI and OEMs and no such agreement/contract shall be executed, amended, modified and/or terminated without the prior written consent of the Client. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted by MSI to the Client.	Request you to amend the clause as below 20.16 The Client reserves the right to review the terms of the warranty and annual maintenance agreements entered into between MSI and OEMs and no such agreement/contract shall be executed, ~~amended, modified~~ and/or terminated without the prior written consent of the Client. An executed copy of each of such agreements/contracts shall, immediately upon execution be submitted by MSI to the Client.	As per RFP
848	3	20.27	12	MSI shall also be responsible for resolving conflicts between vendors in case of borderline integration issues.	MSI shall also be responsible for resolving conflicts between vendors in case of borderline integration issues. Client will support the MSI for resolving all the pending integration issues.	As per RFP
849	3	20.30.3	12	At the Site locations, the Client's representative shall give to MSI access to as much as may be necessary to enable MSI to commence and proceed with the installation of the works in accordance with the program of work or for operation and maintenance activities.	At the Site locations, the Client's representative shall give to MSI access ~~to as much as may be necessary~~ to enable MSI to commence and proceed with the installation of the works in accordance with the program of work or for operation and maintenance activities.	As per RFP
850	3	20.34.7	15	If the System or Subsystem fails to pass the Operational Acceptance Test(s) in accordance with this Clause, then the Client may consider terminating the Contract, pursuant to GCC Clause 50.1.	If the System or Subsystem fails to pass the Operational Acceptance Test(s) in accordance with this Clause, then the Client may consider to provide reasonable time to rectify to enable a smooth Operational Acceptance Test	As per RFP
851	3	20.35.3	15	For items for which pre-approved subcontractor lists have not been specified as above to the Contract Agreement, the MSI may employ such Subcontractors as it may select, provided: (i) the MSI notifies the Client in writing at least 28(twenty-eight)	We understand that finalising subcontractor requires major challenges. Hence request you to shorten the period for notifying the client in writing as per the clause below: 20.35.3 For items for which pre-approved subcontractor lists have not been specified	As per RFP

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				days prior to the proposed mobilization date for such subcontractor; and (ii) by the end of this period either the Client has granted its approval in writing or fails to respond. The MSI shall not engage any subcontractor to which the Client has objected in writing prior to the end of the notice period. The absence of a written objection by the Client during the above specified period shall constitute formal acceptance of the proposed subcontractor. Except to the extent that it permits the deemed approval of the Client of subcontractors not listed in the Contract Agreement, nothing in this Clause, however, shall limit the rights and obligations of either the Client or MSI as they are specified in herein. Where the Client deems it necessary, it shall have the right to require replacement of any of the sub-contractors with another suitable sub-contractor. The MSI shall in such case terminate forthwith all their agreements/contracts, other arrangements with such sub-contractor and find out the suitable replacement for such outgoing subcontractor with another sub-contractor to the satisfaction of the Client, who shall execute such contracts with the Client as the Client may require. Failure on the part of the MSI to find a suitable replacement and/or terminate all agreements/contracts with such member, shall amount to a breach of the terms hereof and the Client in addition to all other rights, have the right to claim damages and recover from the MSI	as above to the Contract Agreement, the MSI may employ such Subcontractors as it may select, provided: (i) the MSI notifies the Client in writing at least 7(seven) days prior to the proposed mobilization date for such subcontractor; and (ii) by the end of this period either the Client has granted its approval in writing or fails to respond. The MSI shall not engage any subcontractor to which the Client has objected in writing prior to the end of the notice period. The absence of a written objection by the Client during the above specified period shall constitute formal acceptance of the proposed subcontractor. Except to the extent that it permits the deemed approval of the Client of subcontractors not listed in the Contract Agreement, nothing in this Clause, however, shall limit the rights and obligations of either the Client or MSI as they are specified in herein. Where the Client deems it necessary, it shall have the right to require replacement of any of the sub-contractors with another suitable sub-contractor. The MSI shall in such case terminate forthwith all their agreements/contracts, other arrangements with such subcontractor and find out the suitable replacement for such outgoing subcontractor with another sub-contractor to the satisfaction of the Client, who shall execute such contracts with the Client as the Client may require. Failure on the part of the MSI to find a suitable replacement and/or terminate all agreements/contracts with such member, shall amount to a	

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				all losses/ or other damages that may have resulted from such failure.	breach of the terms hereof and the Client in addition to all other rights, have the right to claim damages and recover from the MSI all losses/ or other damages that may have resulted from such failure.	
852	3	20.36.8	16	At any time during the course of the Contract, the Client shall also have the right to conduct, either itself or through another agency as it may deem fit, bills of quantity (BoQ) audit, security audit, an audit to monitor the performance by MSI of its obligations/functions in accordance with the standards committed to or required by the Client and MSI undertakes to cooperate with and provide to the Client/any other agency appointed by the Client, all Documents and other details as may be required by them for this purpose. Such audit shall not include MSI's books of accounts.	We understand that the audit shall not be involved from the books of account of total contract value quoted by MSI. Kindly Confirm.	As per RFP
853	3	20.42	18	Product Upgrades - 20.42.1 to 20.42.5	Request to delete this entire clause 20.42	As per RFP
854	3	21.7	20	Client hereby agrees to make the project sites ready as per the agreed specifications, within the agreed timelines. Client agrees that MSI shall not be in any manner liable for any delay	While this clause is appreciated, in case of inordinate delay request that the site be considered live, or payment for the next milestone be released to the MSI.	As per RFP
855	3	21.7	20	Site to be made ready: Client hereby agrees to make the project sites ready as per the agreed specifications, within the agreed timelines. Client agrees that MSI shall not be in any manner liable for any delay arising out of Client's failure to make the Site ready within the stipulated period.	We understand that necessary support will be provided by RSCL in case of extension of time for site to be made ready and compensation in case of delay in providing access to site.	As per RFP
856	3	21.7	20	Site to be made ready: Client hereby agrees to make the project sites ready as per the agreed specifications, within the	Client hereby agrees to make the project sites ready as per the agreed specifications, within the agreed timelines.	As per RFP

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				agreed timelines. Client agrees that MSI shall not be in any manner liable for any delay arising out of Client's failure to make the Site ready within the stipulated period.	Client agrees that MSI shall not be in any manner liable for any delay arising out of Client's failure to make the Site ready within the stipulated period. If case of any delay by client, time and cost compensation will be provided to the MSI on mutual discussion.	
857	3	22.5	-	Additional Clause	Any variation order issued by the MSI during the course of the contract will be capped at 15% of the Contract Value.	As per RFP
858	3	23.2	22	Change in Law does not include: (i) any change in the (Indian) Income Tax Act, 1961 with regard to the taxes on the income of the MSI; (ii) any statute that has been published in draft form or as a bill that has been placed before the legislature or that has been passed by the relevant legislature as a bill but has not come into effect prior to the date of the Contract and which is a matter of public knowledge; or (iii) a draft statutory instrument or delegated legislation that has been published prior to the date of the Contract, which is under the active consideration or contemplation of the GoI or GoO and which is a matter of public knowledge.	We understand that Change in law shall not include a draft. But in case this draft is brought into force after the date of bid submission- the same shall be considered as a change in law. Kindly confirm.	As per RFP
859	3	25.5	23	All payments to MSI shall be subject to the deductions of tax at source under Income Tax Act, and other taxes and deductions as provided for under Applicable Law, rule or regulation.	Request you to confirm that Labour cess /BOCW would not be deducted from our payments	As per RFP
860	3	26.3.2	25	Except where otherwise specifically provided in the Contract, the MSI shall submit to the Client, a notice of a claim for an extension of the time for achieving Operational Acceptance, together with	Request to modify as follows: Except where otherwise specifically provided in the Contract, the MSI shall submit to the Client, a notice of a claim for an extension of the time for achieving	As per RFP

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				particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Client and the MSI shall agree upon the period of such extension. In the event that the MSI does not accept the Client's estimate of a fair and reasonable time extension, the MSI shall be entitled to refer the matter to the provisions for Dispute resolution pursuant to GCC Clause 32.	Operational Acceptance, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Client and the MSI shall agree upon the period of such extension and related cost. In the event that the MSI does not accept the Client's estimate of a fair and reasonable time extension, the MSI shall be entitled to refer the matter to the provisions for Dispute resolution pursuant to GCC Clause 32.	
861	3	27.6	26	MSI must ensure that while using any software, hardware, processes, document or material in the course of performing the Services, it does not infringe the Intellectual Property Rights of any person/Company. MSI shall keep the Client indemnified against all costs, expenses and liabilities howsoever,	Our stand is MSI shall indemnify the client against all kinds of patent/copyright infringements for the products manufactured by the MSI similarly the OEM should indemnify the client against all kinds of patent/copyright infringements for the products manufactured by the OEM, we therefore request you to kindly add a relevant clause for infringement indemnity in this MAF: "We <<OEM> undertake to ensure that there would not be any patent or IPR infringement on the products/ deliverables/ services. If however, there is an infringement, we hereby confirm that we indemnify the designated Employer and its nominated agencies from and against all third party claims of infringements of copyright, trade secret, patent or other	As per RFP

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					intellectual property rights by any of the Goods / Deliverables/ Services manufactured/provided/supplied by us. We hereby confirm that we will defend such claim(s) at our expenses and will pay any costs or damages that may be finally awarded against the Employer. We, however, will not indemnify the Employer if the claim of infringement is caused by (a) The Employer's misuse or modification of the Deliverables; (b) The Employer's failure to use corrections or enhancements made available by us or our Partner SI; (c) The Employer's use of the Deliverables in combination with any product or information not owned or developed or supplied by us. If any of the Deliverables is or likely to be held as infringing, we will at our expense and option either (i) procure the right for the Employer to continue using it, (ii) replace it with a non-infringing equivalent, (iii) modify it to make it non-infringing."	
862	3	28.2	27	MSI shall bear all taxes and duties etc. levied or imposed on MSI under the Contract including but not limited to The Goods and Services Tax, Customs duty, Excise duty, and all Income Tax levied under Indian Income Tax Act – 1961 or any amendment thereof during the entire contract period, i.e., on account of material supplied and Services rendered and payments received by him from the Client under the Contract. It shall be the responsibility of MSI to submit to the concerned Indian authorities the returns	We request you to reimburse the successful bidder the statutory variation in taxes and a column be introduced in price schedule for inclusion of duties.	As per RFP

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				and all other connected documents required for this purpose.		
863	3	29.1	27	MSI shall indemnify the Client and the Client's staff from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind suffered by the Client and the Client's staff, arising or incurred inter alia during and after the Contract period out of: i. any gross negligence or wilful misconduct or omission by MSI or any third party associated with MSI in connection with or incidental to this Contract; or ii. any failure of the MSI to pay taxes or any statutory dues; iii. any non-compliance or violation of Applicable Law or applicable permits by the MSI's team; iv. breach of the MSI's representations and warranties set out in the Contract; v. bodily injury, sickness or death of any person whatsoever engaged by MSI, Client or any of their subcontractor on the site during duty hours; vi. breach of the MSI's obligations under the Contract; vii. physical damage to the Project office or any property therein; viii. loss of or physical damage to property of any third party; orix. infringement of the Intellectual Property Rights of any third party by the MSI under the Contract	Request to delete the following sub-clause: iv-breach of the MSI's representations and warranties set out in the Contract; Vi-breach of MSI's obligation under the contract vii. physical damage to the Project office or any property therein; viii. loss of or physical damage to property of any third party; or ix. infringement of the Intellectual Property Rights of any third party by the MSI under the Contract	As per RFP
864	3	29.1	28	Infringement of the Intellectual Property Rights of any third party by the MSI under the Contract	Our request is MSI shall indemnify the client against all kinds of patent/copyright infringements for the products manufactured by the MSI. Similarly the	As per RFP

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					OEM should indemnify the client against all kinds of patent/copyright infringements for the products manufactured by the OEM, we therefore request you to kindly add a relevant clause for infringement indemnity in this MAF:	
865	3	30.1	28	A comprehensive warranty under this Contract shall be provided by the MSI for the period of Contract from the date of acceptance of respective System by the Client.	Warranty shall be for one year/ 3 years from the date of supply, for the remaining duration of contract the equipments shall be covered under AMC.	As per RFP
866	3	30.8	28	If the MSI, having been notified, fails to remedy the defect(s) within a reasonable period, the Client may proceed to take such remedial action as may be necessary, at the MSI's risk and expense and without prejudice to its right to invoke the Performance Security or any other rights which the Client may have against the MSI under the Contract.	Request to cap the above Risk Purchase clause. The Value of Risk Purchase cannot be more than the value of PBG.	As per RFP
867	3	32.8	30	If the Arbitrator so appointed dies, resigns, incapacitated or withdraws for any reason from the proceedings, it shall be lawful for the Client to appoint another person in his/her place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his/her predecessor had left if both parties consent for the same; otherwise, he/she shall proceed de novo.	We understand that the new Arbitrator will be appointed as per the Arbitration and Conciliation Act, 1996. Kindly Confirm.	As per RFP
868	3	39 | Transfer of Ownership	33	Transfer of Ownership	Please confirm the following section is not applicable for hardware/software provided at DR site by CSP, Since DR will be hosted with MeiTY empanelled CSP on MeiTY cloud and will be providing hardware/software as a service to RSCL.	As per RFP. Please refer to Volume 2 of this RFP for details.

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					Hence only ownership of data will be with RSCL and ownership of hardware/software provided by CSP will be with CSP	
869	3	40.2	33	Exit Management plan shall at minimum adhere to the following: i. 6(Six) months of the support to Replacement Service Provider post termination of the Contract.	We request you to amend the clause as below: i. 6 (Six) months of the support to Replacement Service Provider post termination of the Contract as per the cost applicable.	As per RFP
870	3	41.1	34	MSI shall furnish Performance Security to the Client at the time of signing the Contract which shall be equal to 10% (Ten Percent) of the Contract Value and shall be in the form of a Bank Guarantee	Instead of one PBG of 10% of the contract value. We request RSCL to ask for two PBGs; details of which are as follows: 1. 1st PBG for 10% of the Total Capex Cost of the contract and to be valid beyond 3/6 months of Go-Live. 2. 2nd PBG for 10% of the Total Opex Cost of the contract and to be valid for 3 months beyond the contract period. Two or more such PBGs are now being allowed in many RFPs and same can be shared upon request.	As per RFP
871	3	42.1	34	42.1 If MSI fails to supply, install or maintain any or all of the Goods as per the Contract, within the time period(s) specified in the RFP Volume 2, the Client without prejudice to its other rights and remedies under the Contract, shall be entitled to deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1% (zero point one percent) per week or part thereof of Contract Value for a milestone/quarter. 42.2 The deduction shall not in any case	Kindly amend the clause as below: If MSI fails to supply, install or maintain any or all of the Goods as per the Contract, within the time period(s) specified in the RFP Volume 2, the Client without prejudice to its other rights and remedies under the Contract, shall be entitled to deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1% (zero point one percent) per week or part thereof from undelivered portion of Contract Value for a milestone/quarter	As per RFP

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				exceed 10% (ten percent) of the CAPEX value of the contract.	The deduction shall not in any case exceed 10% (ten percent) of the CAPEX value of the contract.	
872	3	42.2	34	The deduction shall not in any case exceed 10% (ten percent) of the CAPEX value of the contract.	Request to keep the Cap on LD at 5% of the Capex value of the contract.	As per RFP
873	3	43.1	35	Neither Party shall be liable to the other Party for any indirect or consequential loss or damage (including loss of revenue and profits) arising out of or relating to the Contract. Provided that this exclusion shall not apply to any obligation of the MSI to pay liquidation damages to the Client.	Request to delete - Provided that this exclusion shall not apply to any obligation of the MSI to pay liquidation damages to the Client	As per RFP.
874	3	43.2	35	Except in case of gross negligence or wilful 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 Client's property, shall not be liable to Client:	Request to delete damages caused to clients property.	As per RFP
875	3	43.2	35	Except in case of gross negligence or wilful 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 Client's property, shall not be liable to Client: i. for any indirect or consequential loss or damage; and ii. for any direct loss or damage that is over and above the contract value	Request that the entire Limitation of liability clause be modified as under: Neither Party; nor its subsidiaries or its affiliates will be liable to the other Party, whether in contract, tort (including negligence), strict liability or otherwise, for loss of business, revenue, profits, data, loss of goodwill or reputation; or indirect, consequential, or special loss, arising in connection with any order, product, service, related documentation, information and/or the intended use thereof, even if a Party has been advised, knew or should have known of the possibility of such damages. AND	As per RFP

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					Liability of Bidder for any damages or loss or claim should be limited to revenue during the twelve (12) months immediately preceding the date of the claim OR SIs cumulative liability for its obligations under the contract shall not exceed the value of the charges payable by the MPSEDC within the remaining duration of the contract term from the day claim is raised. This is because the liability of the bidder should decrease with time. The MSI's liability in the final year of O&M cannot be equals to that in 1st year of contract.	
876	3	43.3	35	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….	Request that the entire Limitation of liability clause be modified as under: Neither Party; nor its subsidiaries or its affiliates will be liable to the other Party, whether in contract, tort (including negligence), strict liability or otherwise, for loss of business, revenue, profits, data, loss of goodwill or reputation; or indirect, consequential, or special loss, arising in connection with any order, product, service, related documentation, information and/or the intended use thereof, even if a Party has been advised, knew or should have known of the possibility of such damages. AND Liability of Bidder for any damages or loss or claim should be limited to revenue during the twelve (12) months immediately preceding the date of the claim	As per RFP

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					OR SIs cumulative liability for its obligations under the contract shall not exceed the value of the charges payable by the MPSEDC within the remaining duration of the contract term from the day claim is raised. This is because the liability of the bidder should decrease with time. The MSI's liability in the final year of O&M cannot be equals to that in 1st year of contract.	
877	3	43.3	35	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. Further the liability cap provided under any provision of the Contract and the limitations provided herein in so far as the MSI is concerned, shall not be applicable to bodily injury and its liability for patent and copyright infringement in accordance with the terms of this Agreement.	Request to delete- Further the liability cap provided under any provision of the Contract and the limitations provided herein in so far as the MSI is concerned, shall not be applicable to a breach of indemnification obligations, confidentiality obligations and breach committed by the MSI to the safety and security measures as provided in the Contract.	As per RFP
878	3	49.1	37	The Client may, by written notice of suspension to the MSI, suspend all payments to MSI hereunder if MSI fails to perform or is in breach of any of its obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension: (i) shall specify the nature of the failure or breach, and (ii) shall request the MSI to remedy such failure within a period not exceeding 30(thirty) calendar days after receipt by the MSI of such notice of suspension.	We understand that further extension in time will be given apart from 30(thirty) calendar days if the suspension is caused due to fault of RSCL.	As per RFP

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879	3	50	39	General Query	50.1.21 Provided however that in respect of events of default covered under clause 50.1.9, 50.1.11 or 50.1.12, 50.1.13, 50.1.14, 50.1.15 and 50.1.18 the Client shall be entitled to terminate the Contract forthwith without any cure period. We request that for 50.1.13 and 50.1.14 to issue notice of termination with cure period since the circumstances may be out of the control of MSI.	As per RFP
880	3	51.2	40	Without prejudice to other provisions of this Contract, upon the occurrence of a Client Event of Default, the MSI may deliver a notice to the Client specifying the nature of the breach and giving a cure period of 30(thirty) days to the Client to cure the Client Event of Default. If the Client fails to cure the breach within the cure period, the MSI may terminate the Contract forthwith.	If in case of 51.1 - "iv. if the Client becomes insolvent or bankrupt or enters into any agreements with its creditors for relief of debt or take advantage of any law for the benefit of debtors or goes into liquidation or receivership whether compulsory or voluntary; or, if the Client is a corporation, a resolution is passed or order is made for its winding up;" we request RSCL to suggest the authority which will be in charge for further payments to be given to MSI.	As per RFP
881	3	51.3	41	iv. In addition, the MSI shall: · deliver to the Client the parts of the System executed by the MSI up to the date of termination;	We Understand that after the termination of contract if MSI has to deliver the Client the parts of the system then cost of such components shall be paid to MSI as per the prices quoted in commercial bid. Request you to amend the clause as below: deliver to the Client the parts of the System executed by the MSI up to the date of termination and necessary cost will be paid by the client.	As per RFP
882	3	52.1	41	The Client may at any time terminate the Contract for any reason by giving the MSI a notice of termination.	Request deletion of this contract as any "Termination for convenience" is very unfair on bidder. This is because in the event the contract is terminated by the client when	As per RFP

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					the MSI has placed the orders on the various OEMs and those equipments have not been delivered to the client. This situation would cause huge loss to the MSI and may be turn out to be a detriment to their very existence. Any termination for convenience if at all happens should happen after Go Live of the project.	
883	3	52.1	41	The Client may at any time terminate the Contract for any reason by giving the MSI a notice of termination.	Request to include- At the Client's Convenience if the contract is terminated, MSI needs to be paid for the portion of the scope already delivered/ completed before such termination for convenience	As per RFP
884	3	52.1	41	The Client may at any time terminate the Contract for any reason by giving the MSI a notice of termination.	Kindly request you to amend the clause as follows The Client may at any time terminate the Contract ~~for any reason~~ for the reasons mentioned in Clause 50	As per RFP
885	3	52.2	41	Upon receipt of the notice of termination under GCC Clause 52.1, the MSI shall either as soon as reasonably practical or upon the date specified in the notice of termination: i. cease all further work, except for such work as the Client may specify in the notice of termination for the sole purpose of protecting that part of the System already executed, or any work required to leave the site in a clean and safe condition;	Request deletion of this contract as any "Termination for convenience" is very unfair on bidder. This is because in the event the contract is terminated by the client when the MSI has placed the orders on the various OEMs and those equipments have not been delivered to the client. This situation would cause huge loss to the MSI and may be turn out to be a detriment to their very existence. Any termination for convenience if at all happens should happen after Go Live of the project.	As per RFP

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886	3	53.1	42	If a Force Majeure event affecting any Party subsists for a continuous period of 180(one hundred eighty) days then either Party may issue a notice of termination to the other Party	Kindly request you to amend the clause as follows : - If a Force Majeure event affecting any Party subsists for a continuous period of 60(Sixty) days then either Party may issue a notice of termination to the other Party	As per RFP
887	3	54.1	42	All terms and provisions of this Contract shall be binding on and shall inure to the benefit of the Client, smart cities mentioned in this Contract, the MSI, the Consortium member and their respective successors and permitted assigns. Except as otherwise expressly provided in this Contract, the MSI and Consortium member shall not be permitted to assign its rights and obligations under this Contract to any third party. The Client may assign or novate all or any part of this Contract and schedules/annexures, and the MSI shall be a Party to such novation, to any third party contracted to provide outsourced services to the purchaser or any of its nominees	Request you to amend the clause as below: 54.1 Assignment - All terms and provisions of this Contract shall be binding on and shall inure to the benefit of the Client, smart cities mentioned in this Contract, the MSI, the Consortium member and their respective successors and permitted assigns. Except as otherwise expressly provided in this Contract, the MSI and Consortium member shall not be permitted to assign its rights and obligations under this Contract to any third party. ~~The Client may assign or novate all or any part of this Contract and schedules/annexures, and the MSI shall be a Party to such novation, to any third party contracted to provide outsourced services to the purchaser or any of its nominees.~~	As per RFP
888	3	54.5	43	Survival - Any provision of this Contract which imposes or intends to impose an obligation on any of the Parties after termination or expiration of this Contract shall survive the termination or expiration of this Contract. Such provisions include, without limitation, obligations related to confidentiality, indemnity, licenses, risk purchase and AMC/ ATS provided by the OEMs or the MSI.	Request you to amend the clause as below: 54.5 Survival - Any provision of this Contract which imposes or intends to impose an obligation on any of the Parties after termination or expiration of this Contract shall survive the termination or expiration of this Contract. Such provisions include, without limitation, obligations related to confidentiality, indemnity, licenses, risk purchase and AMC/ ATS	As per RFP

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				provided by the OEMs or the MSI upto a period of 2 years.		
889	3	54.5	43	Any provision of this Contract which imposes or intends to impose an obligation on any of the Parties after termination or expiration of this Contract shall survive the termination or expiration of this Contract. Such provisions include, without limitation, obligations related to confidentiality, indemnity, licenses, risk purchase and AMC/ ATS provided by the OEMs or the MSI.	We request you to amend to amend the clause as below: 54.5 Survival - Any provision of this Contract which imposes or intends to impose an obligation on any of the Parties after termination or expiration of this Contract shall survive the termination or expiration of this Contract. Such provisions include, without limitation, obligations related to confidentiality, ~~indemnity,~~ licenses, ~~risk purchase and AMC/ ATS provided by the OEMs or the MSI.~~	As per RFP
890	3	59.3 Service Levels Monitoring	50	MSI shall be expected to take immediate corrective action for any breach in SLA. In case issues are not rectified to the complete satisfaction of Client, within a reasonable period of time defined in this RFP, then the Client shall have the right to take appropriate penalizing actions, or termination of the Contract.	We request that the termination section of the clause be deleted since there is already provision for taking penalizing action. Request you to amend the clause as: MSI shall be expected to take immediate corrective action for any breach in SLA. In case issues are not rectified to the complete satisfaction of Client, within a reasonable period of time defined in this RFP, then the Client shall have the right to take appropriate penalizing actions, ~~or termination of the Contract.~~	As per RFP
891	3	60.4 Penalties	52	Severity Level 9: Event of default and termination as per Clause 50 of this section of RFP respectively and the consequences as provided in Clause 50.1.22 of this section of RFP 60.4 Three consecutive quarterly deductions of 10% (ten percent) of the applicable fee on account of any reasons shall be deemed to be an event of default	We request that the provision for termination due to penalties be removed.	As per RFP

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				and termination as per Clause 50 of this Section of RFP respectively and the consequences as provided in Clause 50.1.22 of this section of RFP shall follow.		
892	3	61.5 Implementation Phase related performance levels/ 1. Team Mobilization and Commencement of Work	53	Team Mobilization and Commencement of Work: Delay upto 15 calendar days = 0.1% of the contract value · Delay upto 16-30 calendar days = 0.2% of the contract value · Delay beyond 30 calendar days may lead to termination of the contract at the discretion of the Client	We, would like to bring your kind attention to the following Smart City Projects which L&T has successfully executed or is at an advanced stage of completion. i) Allahabad Smart City- ii) Vishakhapatnam Smart City- iii)Nagpur Smart City- The RFP's of the abovementioned Smart cities lacked this clause, and L&T successfully has executed/ is executing the project without any time delay. So, we humbly request you to amend the clause:- Team mobilization and commencement of work · Delay upto 15 calendar days = 0.01% of the contract value · Delay upto 16-90 calendar days = 0.03% of the contract value · Delay beyond 90 calendar days= 0.05% of the contract value till Manpower deployment	As per RFP
893	3	61.5 Implementation Phase related performance levels/ 2. Implementation Progress	53	· Delay upto 7 calendar days = 0.5% of the contract value · Delay beyond 7 calendar days may lead to termination of the contract at the discretion of the Client	Since LD clause is already in place, we request that this clause be deleted.	As per RFP
894	3	61.6.2	55	Target 99.98% Severity level: > 99.98 = 0	We understand that Enterprise GIS solution also required to be in the same target & severity level. Please clarify?	As per RFP

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				< 99.98 to 97 = 5 < 97 = 9		
895	3	27.1&2, 39.1	25, 33	The Client (or its nominated agency as decided by the Client) shall have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of the Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by MSI solely during the performance of Services and for the purposes of inter-alia use or sub-license of such Services under the Contract. MSI undertakes to disclose all such Intellectual Property Rights arising in performance of the Services to the Client, execute all such agreements/documents and obtain all permits and approvals that may be necessary in regard to the Intellectual Property Rights of the Client (or its nominated agency/respective smart city, as decided by the Client). All COTS products/ Open Source/Open Standards Solutions and related solutions and fixes provided pursuant to this Contract shall be licensed according to the terms of the license agreement packaged with or otherwise applicable to such products. Such licenses shall be brought on behalf of and in the name of the Client (or its nominated agency/respective smart city, as decided by the Client) or mentioning the Client (or its nominated agency/respective smart city, as decided by the Client) as the	Request to replace this clause with the following MSI hereby grants to Authority a non-exclusive, non-sub licensable and perpetual license and right to use the deliverables, formats, material and the documentation solely for Authority's own internal business operations as set forth under the this Agreement. SI's software license under this Agreement does not include the right to (a) sell, lease, exchange, mortgage, pledge, license, sub-license, assign or in any other way convey, transfer or alienate MSI property in favour of any person (either for commercial consideration or not (including by way of transmission) and/or (b) reverse compile or in any other way arrive at or attempt to arrive at the source code of the SI property. All the software licenses and warranties pertaining to any software and/or hardware supplied under this agreement shall be as per SI's license terms and conditions and/or End User License Agreement	As per RFP.

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				end user of such licenses. MSI shall be responsible for arranging any licenses associated with products. "Product" means any computer code, web-based services, or materials comprising commercially released, pre-release or beta products (whether licensed for a fee or no charge) and any derivatives of the foregoing which are made available to the Client for license which is published by product owner or its affiliates, or a third party. "Fixes" means product fixes that are either released generally (such as commercial product service packs) or that are provided to you when performing services (such as workarounds, patches, bug fixes, beta fixes and beta builds) and any derivatives of the foregoing. Unless otherwise specifically restricted by the Licensing Terms of the COTS products/ Open Source Solutions, all intellectual property rights in any development/enhancement/customization etc. done on the COTS products/ Open Source Solutions pursuant to this Contract shall be owned by the Client. Further, the MSI shall be obliged to ensure that all approvals, registrations, licenses, permits and rights which are, inter-alia, necessary for use of the deliverables, goods, services, applications, services etc. provided by the MSI / Consortium / subcontractors under this Agreement shall be acquired in the name of the Client (or its nominated agency/respective smart city, as decided by the Client) and MSI shall have the non-exclusive, limited right to use such licenses		

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				till the Term on behalf of the Client solely for the purpose of execution of any of its obligations under the terms of this Agreement. However, subsequent to the term of this Agreement, such approvals etc. shall ensure to the exclusive benefit of the Client (or its nominated agency/respective smart city, as decided by the Client).		
896	3	Annexure II	73	Form of Agreement This Agreement made on the …………… date of …………... 2018,	This Agreement made on the …………… date of …………… 2018 2019,	Please refer to Corrigendum
897	3	Annexure II	73	Form of Agreement c. The following documents attached hereto shall be deemed to form an integral part of this Agreement:	We request you to mention the order of priority of documents.	As per RFP
898	3	NA	NA	New Clause Proposed	In order to have better working capital for the project we propose an Assignment clause as below to be included in the Payment Schedule, which shall allow us to factor the bill with financing institution, and therefore enable us to manage our fund requirements for execution of the project, we request you to accept the same. Assignment Clause (new Clause proposed) : "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	As per RFP

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					NBFC(s). 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)".	
899	3			Additional clause	Request to include the following under Indemnity provision Any indemnity under the aforesaid Purchase order shall be only to the extent MSI/Honeywell contributed to the losses or expenses and shall stand reduced to the extent the Authority/Customer or any third party contributed to the losses. This obligation is conditioned on receiving prompt notice of a claim from the indemnitee. The indemnitor will not be liable for any attorney fees or costs of indemnitee. To the extent permitted by applicable law the indemnitor will be entitled exclusively to control the defence and settlement of the claim	As per RFP.
900	3			Additional Clause	Request to include- Where MSI incurs additional cost due to a delay to the date of completion (need to be	As per RFP

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					agreed) from the date of PO/Work Order caused by Authority or their suppliers or their sub-contractors then MSI shall be entitled to claim additional delay costs for such delay	