

## REPLY TO PRE-BID QUERIES RELATED TO "SELECTION OF MASTER SYSTEM INTEGRATOR FOR IMPLEMENTATION OF INTEGRATED SMART SOLUTIONS AT PATNA"

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1	1	3	SHORT NOTICE INVITING TENDER	Estimated Cost of Project Rs. 2,05,87,00,000/- (Rupees Two Hundred Five Crore Eighty-Seven Lakhs) only.	Please confirm that the referred Estimated cost of the Project is inclusive or exclusive of Taxes and Duties (GST and BOCW)	The estimated cost of the project is inclusive of all taxes, duties and GST.
2	1	3	SHORT NOTICE INVITING TENDER	Last date and time for submission of bids online	We also request you to consider extending the bid submission date for four (4) weeks from the date of last corrigendum / replies on our queries.	Refer <b>Corrigendum-3</b> in this regard
3	1	3	SHORT NOTICE INVITING TENDER	Rs. 10,000/- (Rupees Ten Thousand) only (Non-Refundable) in the form of Demand Draft in favor of Managing Director, Patna Smart City Ltd, payable at Patna.	We understand that the Demand draft can be drawn from either Nationalised bank / Scheduled Bank. Kindly confirm.	Yes your understanding is correct which is confirmed.
4	1	3	SHORT NOTICE INVITING TENDER	Last date and time for submission of bids online - Till 16.00 Hrs. on 15.05.2021	Last date and time for submission of bids online Till 16.00 Hrs. on 9.06.2021As you might be aware of the current situation of rapid spread of coronavirus, there are certain guidelines which have been issued by the government to contain the spread of COVID-19. Also our Delhi Office & Mumbai Office involved in bid preparation are closed due to lockdown as imposed by Delhi & Maharashtra Govt. respectively which may lead to delay in our preparations.While we are working hard to meet the timelines, due to this situation it has become challenging for us to prepare the bid response considering the support needed from OEMs, partners and our internal team member. Hence, we hereby submit our request for extending the bid submission till 9th June, 2021 for preparation and submission of technical and commercially responsive bid.	Refer reply to S.No. 2
5	1	3	SHORT NOTICE INVITING TENDER	Last date and time for submission of bids online - Till 16.00 Hrs. on 15.05.2021	We request you to kindly extend the bid submission date for 4 weeks from the date of response to our prebid queries. Please confirm.	Refer reply to S.No. 2
6	1	3	SHORT NOTICE INVITING TENDER	Last date and time for submission of original EMD & DD (RFP fee): Till 16.00 Hrs. on 16.05.2021	Due to COVID 19 pandemic there are travel restrictions. The scanned copy of EMD & DD (RFP fee) shall be uploaded with bid. However, it is requested to permit submission of original EMD and DD (RFP Fee) at the time of POC.	Refer reply to S.No. 2 for extension of date for submission of bid, however, the instruments w.r.t. EMD and cost of bid document needs to be submitted in original by due date.
7	1	8	INSTRUCTIONS FOR ONLINE BID SUBMISSION	Bidder should submit the Tender Fee/ EMD, pre-qualification bid and the Technical Bid in online only as per Clause of this RFP. The Financial bid should be submitted only online. The Financial bid submitted in hard copy shall be treated as non-responsive and eligible for rejection. The hard copies of all the bids except Financial bid should be posted/couriered/given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.	Request you to allow online bid submission only as man power movement in current pandemic situation is totally restricted now.	Submission of hard copy of technical bid is not necessary. However, the hard copy of EMD and Bid document fee has to be necessarily submitted in original before the due date and time. In addition refer to other modes of EMD mentioned in NIT.
8	1	10	1.4. Factsheet	Method of Selection:The selection shall be done through LCS (Least Cost Selection) method, but financial evaluation of only those bidders shall be considered who obtain 70 or more marks during technical evaluation.	We understand that Quality- and Cost-Based Selection (QCBS) is a method that takes into account the quality of the proposal and the cost of the services. It is the most commonly recommended method for the selection of master System Integrator in most of Smart cities projects in India. Hence we request you kindly to amend the Evaluation criteria as under:-The method of selection is QCBS (Quality Cum Cost based selection). The weightage given to the technical and financial score will be 70% and 30% respectively.The contract will be awarded to the bidder scoring maximum marks after technical and financial valuations as per qualifying criteria.The scores will be calculated as: $Bb = 0.7 \times Tb + (0.3) \times (Cmin/Cb \times 100)$ Where, i. Bb = overall score of bidder under consideration (calculated up to two decimal points)ii. Tb = Technical score for the bidder under considerationiii. Cb = Price quoted by the bidder under considerationiv. Cmin= Lowest price among the financial proposals under consideration	As per RFP
9	1	11	1.5 Definitions/Acronyms	A consortium consists of multiple members (not more than Four parties Lead Bidder + 3 Consortium members) entering into a Consortium & A consortium should not consist of more than three(03) parties (including the Lead Bidder).	Kindly confirm the number of consortium members as both clauses are contradictory.Given the complexity of the project and expertise required for various solutions asked, kindly allow 1 + 3 (Lead Bidder + Consortium members)	The consortium will not have more than three parties including one lead bidder so that it is in resemblance with Clause 2.2 b where this fact is indicated in bold letters.

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10	1	11	1.5 Definitions/Acronyms	Parent company existence of Bidder/ Lead bidder would be considered for only 100% subsidiary/ sister concern / division/ sub division/ branch business unit. Intellectual Property Rights Indemnity will not be applicable if any claim of infringement is asserted by a parent, subsidiary, or affiliate of the MSI's organization. For the purpose of technical evaluation, net worth and turnover of only the bidding entity will be considered. Net worth and turnover of any parent, subsidiary, associate or other related entity will not be considered.	The parent company financial and technical credentials are accepted widely across various smart city tenders in India. The recently released tender from BUIDCo to implement ATC solution at Sasaram, Bihar has also accepted parent company credentials. Few example RFP document are attached along with mail. Hence requesting authority to kindly allow the bidder and consortium (who is a 100% subsidiary of holding foreign/Indian parent company in the same domain) to use its parent company's financials and technical experience for meeting the eligibility criteria and technical evaluation criteria sought in the RFP.	As per RFP
11	1	11	1.5 Definitions/Acronyms	Parent company existence of Bidder/ Lead bidder would be considered for only 100% subsidiary/ sister concern / division/ sub division/ branch business unit.	We request you kindly to accept following amendment for better competition:-Parent company existence Experience in terms of Technical qualification of Bidder/ Lead bidder would be considered for only 100% subsidiary/ sister concern / division/ sub division/ branch business unit/ Group companies with same ultimate Parent.	Reply same as provided for query at S.No. 10
12	1	11	1.5 Definitions/Acronyms	Parent company existence of Bidder/ Lead bidder would be considered for only 100% subsidiary/ sister concern / division/ sub division/ branch business unit. For the purpose of technical evaluation, net worth and turnover of only the bidding entity will be considered. Net worth and turnover of any parent, subsidiary, associate or other related entity will not be considered.	We understand that the tender authority is seeking participation from established companies in India. However, with respect to the Indian PSUs and for wider participation we request the tender authority to allow a 100% Indian subsidiary, can participate and submit the company registration of its Indian Parent (as per the PQ/TQ criteria), credentials, turnover, technical evaluation related experience for the PQ/TQ criteria.	Reply same as provided for query at S.No. 10
13	1	16	2.1 General	d) Sealed bids shall be received by the PSCL by physical posts with readable CDs, in person before the time and date specified in the schedule of the tender notice.	The physical bid submission may get delayed due to various reasons beyond the control of bidder. Request to amend this clause appropriately by removing the clause of accepting the physical bid, and replace it by accepting all the bid online only, considering the current pandemic situation.	Reply same as provided for query at S.No. 7
14	1	16	2.2 Eligible Bidders	In case the bid is submitted as consortium, we request you to add new clause as suggested here to ensure more competitive proposal from bidder.	1. Contract Agreement shall be signed by all the members of Consortium with detailed scope of work & billing schedule. Consortium members are jointly and severally responsible to the Purchaser for their respective scope of work agreed as per consortium agreement. However, Lead Bidder shall have overall responsibility for the successful execution of the project. 2. Performance Bank guarantee shall be submitted by both the parties for their respective portion based on agreed scope. 3. Each consortium member is independently responsible for executing its part of work through its own resources and bears the risk & penalty for its scope of work. 4. Consortium parties shall raise the invoices to Purchaser for their respective scope of work and the Lead bidder shall submit an overall claim as a cover note collating both the invoices. Purchaser shall pay directly to the consortium members (in their respective GST registration). 5. Purchaser shall recover TDS from the bill and remit to the PAN account of respective consortium members.	As per RFP
15	1	16	2.2 Eligible Bidders	Bids can be submitted by a consortium of firms. A consortium should not consist of more than three (03) parties (including the Lead Bidder).	As per RFP Clause 1.5 ( 14), Definitions/Acronyms: A consortium consists of multiple members (not more than Four parties-Lead Bidder + 3 Consortium members) entering into a Consortium. Please confirm the number of consortium members including lead bidder allowed.	Reply same as provided for query at S.No. 10
16	1	17	2.2 Eligible Bidders	a. The Lead Bidder shall be authorized to incur liabilities and receive instructions for and on behalf of any or all consortium members. Entire execution of the Contract, including payment, shall be done exclusively by/with the Lead Bidder.	We request you to kindly allow direct payments to the consortium member, based on written authorization by Lead Bidder. This will enable bidder to have financial independence and shall enable to bid a competitive price. Hence request you to amend the clause as below: i. The Lead Bidder shall be authorized to incur liabilities and receive instructions for and on behalf of any and all consortium members. Entire execution of the Contract, including payment, shall be done exclusively by/with the Lead Bidder and payment under the Contract shall be received by both the lead partner and consortium member for their respective scope of work, upon written authorization by the lead bidder.	As per RFP
17	1	19	2.8 Earnest Money Deposit (EMD)	EMD	Earnest Money Deposit (EMD) As per the Office Memorandum No. F.9/4/2020-PPD dated 12th Nov 2020, Bid security /EMD for MSMEs and the concerned Ministries or Department are exempted. In view of this we request you to exempt the submission of EMD	As per RFP
18	1	19	2.8 Earnest Money Deposit (EMD)	EMD shall be paid at the time of submission of bid through a Bank Guarantee	Please provide the format of Bank Guarantee.	Being provided as Annexure to the <b>Corrigendum-4</b>
19	1	19	2.8 Earnest Money Deposit (EMD)	Earnest Money Deposit (EMD)	Please specify the EMD validity period	Bid validity period of 180 days shall be the EMD validity period (refer <b>Corrigendum-4</b> )

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20	1	19	2.8 Earnest Money Deposit (EMD)	EMD shall be paid at the time of submission of bid through a Bank Guarantee. No exemption for submitting the EMD will be given to any agency. Bid security in any other form will not be entertained	Request you to kindly provide Bank Guarantee format, validity period and beneficiary name & address.	All this information is contained in the Bank Guarantee format for EMD, now being provided as Annexure to <b>Corrigendum-4</b> .
21	1	20	2.8 Earnest Money Deposit (EMD), Sub-Clause (b)	If a Bidder is disqualified in accordance with Clause 2;	Disqualification of BID due to non compliance to RFP eligibility criteria is a common procedure. Hence authority is requested to remove this clause.	This sub-clause is modified through <b>Corrigendum-4</b> (EMD will be forfeited if a bidder is disqualified in accordance with Clause 2.25)
22	1	20	2.8 Earnest Money Deposit (EMD)	The Bid security/EMD may be forfeited in any of the following circumstances:a) If a Bidder withdraws or modifies it's Proposal during the Proposal validity period or any extension agreed by the Bidder thereof.b) If a Bidder is disqualified in accordance with Clause 2;c) If the Bidder tries to influence the evaluation process or engages in corrupt, fraudulent, coercive or undesirable practice or restrictive practice as set out in Section 4.	We request you to remove the referred Disqualification clause for forfeiture of Bid Security.	Reply same as provided for query at S.No. 21
23	1	24	2.15 Bid Price	Financial Bid shall be as per the format provided in Section 8. Bidders shall give the required details of all applicable taxes, duties, other levies and charges etc. in respect of direct transaction between PSCL and the Bidder.	Please confirm whether the commercial bid evaluation will be inclusive or exclusive of taxes.	All the quote should be inclusive of taxes. The evaluation will be done based upon the bid price inclusive of taxes, duties etc.
24	1	25	2.17 Total Responsibility	Bidder should issue a statement undertaking total responsibility for the defect free operation with effective SLAs of the proposed solution as per the format mentioned in Section 6.6.	Hope this is applicable only to the lead bidder.Please confirm.	The format for Total Responsibility Certificate is at Section 6.7 and not 6.6 (as inadvertently mentioned in Clause 2.17). The authorised signatory shall be signing on behalf of the consortium and as such all the consortium members including the Lead Member shall be jointly and severally responsible.
25	1	27	2.23 b) Disqualification	The bidder's bid is conditional and has deviations from the terms and conditions of RFP	All the technical spec of RFP may not have 100% compliance from OEM. Hence allow the bidders to quote with minor deviation, which is not directly affecting the RFP functionality.	Conditional bids will be taken as non-responsive. There shall not be deviation from the terms and conditions of RFP, however, if the technical specifications of quoted items are higher than those indicated in RFP, it shall not be taken as deviation.
26	1	30	2.27 Sub-Contracting	The bidder would not be allowed to sub-contract work, except for the following:a) Facility Management Staff at Ground maintenance, Cleaning, Catering, Vending Space management, Utilities management etc. and associated manpower.b) Sub-contracting shall be allowed only with prior written approval of PSCL. 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.	Since mostly the supply and services are outsourced and hence for the services including civil, electrical, mechanical, installation, erection and commissioning and for other type of services which may be required during execution, the sub-contracting may please be allowed. THIS also may include the manpower as required during the execution.	As per RFP
27	1	30-31	2.28 Quality Standards and pre-eligibility OEM Criteria:	All clauses	Since, there is no clause that cover land sharing border and country of origin that means chinese oem can participate .	The Clause regarding restriction on procurement from a bidder of a country which shares a land border with India, as mentioned in Public Procurement Division, Department of Expenditure, Ministry of Finance and Office Memorandum No. F.MO.6/18/2019-PPD dated 23rd July 2020 needs to be provided in the format enclosed as Annexure with <b>Corrigendum-4</b> . The aforementioned memo finds mention at page-38 of RFP under Note-1 (IV) too.
28	1	31	2.28 (a) Quality Standards and pre-eligibility OEM Criteria:	All quoted OEM should have quality standard certifications like ISO 9001-2008/2015, ISO 14001, ISO 27001, wherever applicable to ensure only quality OEM participation, as on date of RFP release	It is not necessary that all OEMs will have ISO certifications and many may have related other quality certifications. Hence pls allow the OEMs to submit along quality certificate to comply this requirement.	The OEM should have standard ISO/other standard certifications.(refer <b>Corrigendum-4</b> )

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29	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	a) All quoted OEM should have quality standard certifications like ISO 9001-2008/2015, ISO 14001, ISO 27001, wherever applicable to ensure only quality OEM participation, as on date of RFP release.	Quality OEMs have certification relevant to their products. Hence request to change criteria as below "Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the RFP. The Bids with deviation(s) to the clauses and/or outlined scope mentioned in the RFP and/or non-submission of required documentations are liable for rejection."	Same as reply to query of S.No. 28
30	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	c) Proposed OEM for any technology should not have filed for bankruptcy and should be profitable for at least last 3 consecutive financial years.	Since the solutions and tender liability are owned by lead bidder, request to remove this clause.	As per RFP
31	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	Proposed OEM for any technology should not have filed for bankruptcy and should be profitable for at least last 3 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 Network is certainly a Stronger Parameter. We would also like to highlight that OEMs for ICCS Software which are, only in the business of ICCS 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. Also due to the ongoing pandemic situation for the past more than one-year, businesses are badly affected ultimately affecting profitability for most of the organizations. Our above justification for the Network is duly endorsed by the PQ criteria mentioned for the Bidders in the RFP which asks for the Network of Bidders and not the Profitability. Separate yardstick should not be applied for SIs & OEMs under the requirements of this financial PQ parameter. We (completely Make in India) are fully compliant to ICCS software Technical & Functional requirements specified in the RFP with Positive Network for the last 03 consecutive Financial Years. Therefore, it is humbly requested to either delete the requirements of Profitability in this clause and Change the clause to "Proposed OEM for any technology should not have filed for bankruptcy and should have a positive net worth for at least last 3 consecutive financial years" enabling us to participate in the bidding process.	As per RFP
32	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	Equipment and its accessories should be of the same make and all quantities supplied for that line item should be of same make only.	Kindly eliminate the clause for Box Cameras to allow eligible CCTV OEMs to provide accessories from 3rd Party Vendors, so that cost effective and site specific customized solution can be proposed.	As per RFP
33	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	Equipment and its accessories should be of the same make and all quantities supplied for that line item should be of same make only.	This clause seems to be vendor specific as certain equipment manufacture depend on other OEM to make their complete product. We sincerely request you to remove this clause or relax to facilitate maximum industry participation.	As per RFP
34	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	Equipment and its accessories should be of the same make and all quantities supplied for that line item should be of same make only.	This clause will be a blockage to quote products of certain OEMs who doesn't manufacture accessories and hence can reduce the competitiveness in bid. Authority is request to remove this clause.	As per RFP
35	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	d) 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.	We request you to kindly allow us to propose multiple makes for the auxiliary systems like Servers, Storage, Networking, Bandwidth, Cyber Security Solution, Junction boxes, Video Wall, Poles etc as the same are only support systems and do not play a role in the overall function of the project. This will enable the SI with optimal solution during the project execution and will benefit PSCL with competitive offers ensuring timely delivery of the project.	As per RFP
36	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	e) The OEM for all active components should give a declaration that products or technology quoted are not end of-sale till 24 months from the date of RFP release and are not end-of-support till 5 years from date of RFP release.	Various OEMs like HP, DELL, CISCO may upgrade their products based on the latest technology launched and may declare End Of Sale of the outdated products. Hence authority is requested to remove 24 months of "End of Sale" in the clause and only to retain "End of Support" for 5 years.	As per RFP
37	1	31	2.28 Quality Standards and pre-eligibility OEM Criteria:	g) Each of the proposed OEMs should have existing capability and infrastructure to provide 24x7x365 technical support with Indian Toll or Toll-Free call-in numbers.	We hereby request you to please Amend this Clause as "Each of the proposed OEMs should have existing capability and infrastructure to provide 24x7x365 technical support with Indian Toll or Toll-Free call in numbers or should have a Authorized Service Center (For Hardware) & Dedicated Research & Development (R&D) Center in India"..	The technical support through authorized service providers will also be permitted.(refer Corrigendum-4)

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38	1	31	2.29 Right to vary quantity	a) At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased or decreased by 10%. In such an eventuality it shall be without any change in the unit prices of items/services or other terms and conditions of the Bid as specified in the bidding documents.b) If the PSCL does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document.c) Repeat orders for extra items or additional quantities may be placed on the rates and conditions given in the contract as rates have been obtained after inviting open competitive bids.	Please confirm that wrt referred clauses a), b) and c), the maximum increase / decrease shall be 10% of the Contract Price and not the quantity.Also this variation limit of cumulatively 10% of the Contract Price shall be applicable till the Contract Completion period (including O&M period).	As per RFP
39	1	32	2.31 Site Visit	a) The Bidders are encouraged to visit Patna for inspection of project site and under construction ICCB Building (Coming up Infront of Senior SP office, North of Gandhi Maidan), and examine the site or sites and obtain for itself, at its own responsibility and risk, all information that may be necessary for preparing the bid and entering into the Contract. The costs of visiting the site or sites shall be at the Bidder's own expense.	Considering the current Pandemic situation, surveying any location is challenging and not practical. Request the authority to provide system wise location matrix mentioning the location name, Arm, lane count to be considered.	The ICCB building is in advance stage of construction. Surveying etc. as required has to be done because providing system wise location matrix is no substitute.
40	1	35	3.5 Pre-Qualification Criteria	Pre qualification Criteria	There is no mention of any clause for checking the capability of either SI or any of its consortium members to gauge GIS specific integration capability with different subsystems of smart city. Our question is how do you differentiate between two parties with in depth GIS implementation and integration experience of several years with another one who has not having that.	As per RFP
41	1	35	3.5 Pre-Qualification Criteria	1. Audited financial statements for three Financial Years (2017-18, 2018-19 & 2019- 20).2. Statutory auditor's/CA certificate clearly specifying the annual turnover for the specified years.3. PAN card4. GST registration5. PO Copies / competition of successfully delivered projects in the given specific business areas	As a bidder, we have completed a large number of projects in the specific business area. As you can understand that submitting many POs will increase the bid file size, so we request you to kindly limit the number of projects (or) delete/amend this requirement as belowRequest you to kindly amend the clause as below:1. Audited financial statements for three Financial Years (2017-18, 2018-19 & 2019- 20).2. Statutory auditor's/CA certificate clearly specifying the annual turnover for the specified years.3. PAN card4. GST registration5. Certificate from CA mentioning the turnover form specific business area PO Copies / competition of successfully delivered projects in the given specific business areas	As per RFP
42	1	35	3.5 Pre-Qualification Criteria	The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 20% contribution.	Ammendment / Change Required The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners. Justification : Lead bidder is responsible for all activities. Hence there should not be any restriction on turnover of consiturm. In any case to qualify total average turnover of Lead bidder and consiturm members has to be INR 200 Cr	Refer <b>Corrigendum-4</b> which is being issued allowing consoritum partners with contribution 10% (instead of 20%) or more.
43	1	35	3.5 Pre-Qualification Criteria	The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 20% contribution.	Ammendment / Change Required The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 15% contribution. Justification : Lead bidder is responsible for all activities. Hence there should not be any restriction on turnover of consiturm. In any case to qualify total average turnover of Lead bidder and consiturm members has to be INR 200 Cr	Refer reply to query at S.No. 42

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44	1	35	3.5 Pre-Qualification Criteria	The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 20% contribution.(Lead member or Consortium members must have experience in at-least one of the following similar business areas viz. ICT/IT Infrastructure area /System, Integration Services, ITMS & Video Surveillance/Video management.	As per asked RFP clause the project expected value is going to be achieved in next 6.5 years as it is an overall project (GO Live + O&M) so asking this huge amount here will allow only few bidders to participate. Hence requesting you to please revise this clause as : " The Lead Bidder shall have an Average Annual Turnover of INR 100 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 20% contribution.(Lead member or Consortium members must have experience in at-least one of the following similar business areas viz. ICT/IT Infrastructure area /System, Integration Services, ITMS & Video Surveillance/Video management.	Refer reply to query at S.No. 42
45	1	35	3.5 Pre-Qualification Criteria	The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores during three (3)Financial Years (2017-18, 2018-19 & 2019-20). Incase of Consortium, at least 60% of the turnovercriteria shall be met by the Lead Bidder and theremaining shall be fulfilled by the otherConsortium partners, however none of themshould have less than 20% contribution.	Sir, we request you to kindly consider reducing the Average Annual Turnover. As per the Govt. of India Guideline the Average Annual Turnover is to be proportionate with the estimated cost of project. Kindly confirm. This would open up the competition and bring much neede expertise and technology.	Refer reply to query at S.No. 42
46	1	35	3.5 Pre-Qualification Criteria	The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 20% contribution.(Lead member or Consortium members must have experience in at-least one of the following similar business areas viz. ICT/IT Infrastructure area /System, Integration Services, ITMS & Video Surveillance/Video management.	The criteria may kindly be modify as under: The Lead Bidder shall have an Average Annual Turnover of INR 100 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 20% contribution.(Lead member or Consortium members must have experience in at-least one of the following similar business areas viz. ICT/IT Infrastructure area /System, Integration Services, ITMS & Video Surveillance/Video management.	Refer reply to query at S.No. 42
47	1	35	3.5 Pre-Qualification Criteria	The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 20% contribution.(Lead member or Consortium members must have experience in at-least one of the following similar business areas viz. ICT/IT Infrastructure area /System, Integration Services, ITMS & Video Surveillance/Video management.	We request authority to relax the given criteria, so as to get maxixmum participation and Competitive commercials. Hence kindly amend the clause as given below:"The Lead Bidder shall have an Average Annual Turnover of INR 200 Crores 100 Crores during three (3) Financial Years (2017-18, 2018-19 & 2019-20). In case of Consortium, at least 60% of the turnover criteria shall be met by the Lead Bidder and the remaining shall be fulfilled by the other Consortium partners, however none of them should have less than 20% contribution.(Lead member or Consortium members must have experience in at-least one of the following similar business areas viz. ICT/IT Infrastructure area /System, Integration Services, ITMS & Video Surveillance/Video management."	Refer reply to query at S.No. 42
48	1	36	3.5 Pre-Qualification Criteria	The Bidder (Lead Partner in case of consortium) shall have PBDIT of INR 50 Crores as per the last audited Financial Year.	Please revert the condition to positive net worth as given in original tender.	As per RFP
49	1	36	3.5 Pre-Qualification Criteria	The Bidder (Lead Partner in case of consortium )shall have minimum net-worth of INR 50 Croresas per the last audited Financial Year.	Request you to change it to Positive Network Only	Refer reply to query at S.No. 48
50	1	36	3.5 Pre-Qualification Criteria	The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 50 Crores as per the last audited Financial Year.	Request you to kindly amend clause as below:The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 50 Crores as per the last audited Financial Year. In case of consortium, each partner should have positive network for INR 10 Crore as per the last audited Financial Year.	Refer reply to query at S.No. 48
51	1	36	3.5 Pre-Qualification Criteria	The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 50 Crores as per the last audited Financial Year.	Request you to kindly consider reducing the asked net-worth criteria, as per the govt. of India Guidelines. Kindly Confirm	Refer reply to query at S.No. 48
52	1	36	3.5 Pre-Qualification Criteria	The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 50 Crores as per the last audited Financial Year.	Similarly here also asked network is on very higher side it will again restrict therefore requesting you to please revise as:"The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 25 Crores as per the last audited Financial Year"	Refer reply to query at S.No. 48
53	1	36	3.5 Pre-Qualification Criteria	The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 50 Crores as per the last audited Financial Year. Required Documentary Evidence : Certificate from the Statutory Auditor/CA on net worth	We would like to request you kindly modify the clause like below : "The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 40 Crores / solvency of 50 crores as per the last audited Financial Year." Required Documentary Evidence : Certificate from the Statutory Auditor/CA on net worth/Bank Solvency Certificate issued within 1year of tender published date.	Refer reply to query at S.No. 48
54	1	36	3.5 Pre-Qualification Criteria	The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 50 Crores as per the last audited Financial Year. Required Documentary Evidence : Certificate from the Statutory Auditor/CA on net worth	We would like to request you kindly modify the clause like below : "The Bidder (Lead Partner in case of consortium) shall have minimum net-worth of INR 40 Crores / solvency of 50 crores as per the last audited Financial Year." Required Documentary Evidence : Certificate from the Statutory Auditor/CA on net worth/Bank Solvency Certificate issued within 1year of tender published date.	Refer reply to query at S.No. 48



S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
55	1	36	3.5 Pre-Qualification Criteria	The Bidder (any member of consortium) shall have any two of the following Certifications valid at the time of Bidding:• ISO 9001:2008 / ISO 9001:2015 for Quality Management System. • ISO 20000:2011 for IT Service Management or equivalent certification • ISO 27001:2013 for Information Security Management System or equivalent certification	Since this is the Pre-Qualification Criteria we request the tender authority to revise it as:The Bidder (any member of consortium) shall have any one of the following Certifications valid at the time of Bidding:• ISO 9001:2008 / ISO 9001:2015 for Quality Management System. • ISO 20000:2011 for IT Service Management or equivalent certification • ISO 27001:2013 for Information Security Management System or equivalent certification	As per RFP
56	1	36	3.5 Pre-Qualification Criteria	"The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works):2) Surveillance including Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project)	"The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works):2) Surveillance projects in large industrial complex/ Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project)	As per RFP
57	1	36	3.5 Pre-Qualification Criteria	"The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works):1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project INR 10 Crores)2) Surveillance including Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project)3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	The clause is too stringent. It would not be possible for any Small/Medium scale organization to fulfill this clause. Such restrictive clause affects the entry of the participants which in turn would affect in competition. Moreover, Being System Integrator it is not possible for any organization to have, asked Project value experience of any single/multiple projects. Therefore, we request authority to please amend the clause as below:"The Bidder (any member in case of consortium) shall have successfully executed any 2 out of below mentioned projects with cumulative value of INR 50 crore INR 20 Crore in last five years (excluding civil works):1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project INR 10 Crores)2) Surveillance including Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project)3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	As per RFP
58	1	36	3.5 Pre-Qualification Criteria	"The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works): 1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores) 2) Surveillance including Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project) 3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	This is a large system integration project which will include multiple 3rd party components to be integrated with ICC. Hence we request you to kindly include system integration experience from the SI and amend the clause as below."The Bidder (any member in case of consortium) shall have successfully executed any two(02) below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works): 1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores) 2) Surveillance including Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project) 3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)4) Large IT system integration Projects (Min number of successfully executed minimum 1 project with value not less than 20 cr.)	As per RFP
59	1	36	3.5 Pre-Qualification Criteria	"The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works):1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores)2) Surveillance including Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project)3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	We request you to please amend the clause as "The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works):1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores)2) Surveillance including Surveillance of City /Airport projects/Mobile Surveillance System (Min number of successfully executed minimum 1 project)3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	As per RFP
60	1	36	3.5 Pre-Qualification Criteria	"The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works):1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores)2) Surveillance including Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project)3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	We understand that the tender authority is seeking competency in ICT components and since for integration of similar nature projects OFC network is one of the key component, therefore we request the tender authority to kindly expand the criteria to include OFC laying.We suggest the criteria to be modified as:"The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works):1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores)2) Surveillance including Surveillance of City /Airport projects (Min number of successfully executed minimum 1 project)3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)4) Laying of Optical Fiber Network for Min of 50 Kms	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
61	1	36	3.5 Pre-Qualification Criteria	Sole Bidder/any Member of Consortium:1. Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order.2. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letter head 3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client. OR In case of large orders/orders with operations & maintenance phase, the completion/self certificate may specify successful execution and in operation status of a part of the order meeting the requirement. The format of the self- certificate is provided in RFP. In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project.	We request the following changes for on-going projects 3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client or certificate from client for ongoing project along with Chartered Accountant certificate mentioning more than 50% of CAPEX work is completed.	As per RFP
62	1	36	3.5 Pre-Qualification Criteria	The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works): 1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores) 2) Surveillance including Surveillance of City / Airport projects (Min number of successfully executed minimum 1 project) 3) Command and Control Center/ City Control 3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	We would like to request you kindly modify the clause like below : "The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last seven years (excluding civil works): 1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores) 2) Surveillance including out door surveillance projects (Min number of successfully executed minimum 1 project) 3) Command and Control Center/ City Control 3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)."	As per RFP
63	1	36	3.5 Pre-Qualification Criteria	The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works): 1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores) 2) Surveillance including Surveillance of City / Airport projects (Min number of successfully executed minimum 1 project) 3) Command and Control Center/ City Control 3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	We would like to request you kindly modify the clause like below : "The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last seven years (excluding civil works): 1) Data Centre / Servers- Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores) 2) Surveillance including out door surveillance projects (Min number of successfully executed minimum 1 project) 3) Command and Control Center/ City Control 3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)."	As per RFP
64	1	36	3.5 Pre-Qualification Criteria	5. Key Certifications The Bidder (any member of consortium) shall have any two of the following Certifications valid at the time of Bidding: • ISO 9001:2008 / ISO 9001:2015 for Quality Management System. • ISO 20000:2011 for IT Service Management or equivalent certification • ISO 27001:2013 for Information Security Management System or equivalent certification	Request you to modify as follows: 5. Key Certifications The Bidder (any member of consortium) shall have any one of the following Certifications valid at the time of Bidding: • ISO 9001:2008 / ISO 9001:2015 for Quality Management System. • ISO 20000:2011 for IT Service Management or equivalent certification • ISO 27001:2013 for Information Security Management System or equivalent certification	As per RFP
65	1	36	3.5 Pre-Qualification Criteria	The sole Bidder/any Member of Consortium/Sub-Contractor(s): 1. Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. 2. Completion Certificate issued & signed by the competent authority of the client. 3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client. In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a Self- declaration. The format of the self- certificate is provided in Section 6.7 of RFP volume. In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project. "Copies of respective work orders confirming month + year and area of activity to be attested by authorized signatory Signed confirmation that applicant held the responsibility of prime Contractor. Completion certificates along with certified documents as per the requirements. (Items of PO and completion certificates must match) For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client.	The sole Bidder/any Member of Consortium/Sub-Contractor(s): 1. Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. 2. Completion Certificate issued & signed by the competent authority of the client. 3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client or Bidders's Chartered Accountant. In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a Self- declaration. The format of the self- certificate is provided in Section 6.7 of RFP volume. In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project. "Copies of respective work orders confirming month + year and area of activity to be attested by authorized signatory Signed confirmation that applicant held the responsibility of prime Contractor. Completion certificates along with certified documents as per the requirements. (Items of PO and completion certificates must match) For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client or Bidders's Chartered Accountant.	As per RFP



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66	1	36	3.5 Pre-Qualification Criteria	7. ICT components & 8. Experience in development /implementation of Smart City Component In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a Self-declaration. The format of the self-certificate is provided in Section 6.7 of RFP volume In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project	We request you to kindly accept certificates only from clients for project credentials to avoid any fraudulent/forged documentary proofs. So we request you to kindly amend clause as follows: In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a Self-declaration. client certificate The format of the self-certificate is provided in Section 6.7 of RFP volume In case of NDA, Client certificate Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project	As per RFP
67	1	36	3.5 Pre-Qualification Criteria	7. ICT components "The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works): 1) Data Centre / Servers-Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 10 Crores) 2) Surveillance including Surveillance of City / Airport projects (Min number of successfully executed minimum 1 project) 3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	Request you to modify as follows: 7. ICT components "The Bidder (any member in case of consortium) shall have successfully executed below mentioned projects with cumulative value of INR 50 crore in last five years (excluding civil works): 1) Data Centre / Servers-Storage Infrastructure establishment (Min cut-off value of successfully executed cumulative projects in this segment is minimum 1 Project- INR 5 Crores) 2) Surveillance including Surveillance of City / Airport projects (Min number of successfully executed minimum 1 project) 3) Command and Control Center/ City Control Room/ Communication Center (Min number of successfully executed minimum 1 project)	As per RFP
68	1	37	3.5 Pre-Qualification Criteria	"The sole Bidder/any Member of Consortium/Sub-Contractor(s): 1. Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. 2. Completion Certificate issued & signed by the competent authority of the client entity on the entity's Letterhead 3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client. In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a Self- declaration. The format of the self-certificate is provided in Section 6.7 of RFP volume I. In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project.	Considering the fact that BSNL, being a wholly owned Government of India PSU, has been entrusted to implement a lot of National Importance projects by Department of Defense/ Telecom/Department of Finance etc, these are confidential in nature due to National Security we request the authority to allow Self-Certification by officers of CPSU Bidders for projects wherein NDA/confidentiality agreement have been signed.	As per RFP
69	1	37	3.5 Pre-Qualification Criteria	"The sole Bidder/any Member of Consortium/Sub-Contractor(s): 1. Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. 2. Completion Certificate issued & signed by the competent authority of the client entity on the entity's Letterhead 3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client. In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a Self- declaration. The format of the self-certificate is provided in Section 6.7 of RFP volume I. In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project.	Considering the fact that ongoing projects with 50% of the CAPEX completed are allowed against this criteria, as well as the fact that , certificate issued by the Company Secretary / Chartered Accountant as allowed in case of NDA. We request the tender authority to please allow certificate issued by the Statutory Auditor / Chartered Accountant in lieu of certificate from the client, as on many government project partial completion certificates are not issued by the client.	As per RFP
70	1	37	3.5 Pre-Qualification Criteria	Bidder (Lead Bidder or Any Consortium Partner) should have experience in implementation and maintenance of following project of value not less than cumulative value of INR 20 Crore for any of the following: a) ATCS orb) Command & Control Centre / Network Operations Centre (NOC) orb) Surveillance command center orb) ITMS (ANPR/RLVD/SVD/E-challan /VMS) orb) Environmental Sensors orb) PA/ Passenger Information system / ECBI In India or abroad in last 5 years. Note: Bidder can propose separate (one or more) projects for each component for evaluation."	In interest of fair, transparent and wider participation from experienced Global Bidders, We request following modifications: "Bidder (Lead Bidder or Any Consortium Partner) should have experience in implementation and maintenance ..... In India or abroad in last 7 years. Note: Bidder..... The said tenure of project experience is as per industry standard and the same is acceptable in Muzaffarpur Smart City, Saharanpur Smart City, Bareilly Smart City, Ahmedabad Safe city etc.	As per RFP
71	1	37	3.5 Pre-Qualification Criteria	"The sole Bidder/any Member of Consortium/Sub-Contractor(s): .....	Please accept self declaration duly verified by CS/CA in absence of work order/completion documents in case of global orders.	As per RFP

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72	1	37	3.5 Pre-Qualification Criteria	"Bidder (Lead Bidder or Any Consortium Partner) should have experience in implementation and maintenance of following project of value not less than cumulative value of INR 20 Crore for any of the following: a) ATCSorb) Command & Control Centre / Network Operations Centre (NOC) or c) Surveillance command center or d) ITMS (ANPR/RLVD/SVD/E-challan/VMS) or h) Environmental Sensors or f) PA/ Passenger Information system / ECBI in India or abroad in last 5 years. Note: Bidder can propose separate (one or more) projects for each component for evaluation."	Request you to please update the clause as follows [ changes highlighted in bold italics] : "Bidder (Lead Bidder or Any Consortium Partner) should have experience in implementation and maintenance of following project of value not less than cumulative value of INR 5 Crore for any or a combination of the following: a) ATCSorb) Command & Control Centre / Network Operations Centre (NOC) or c) Surveillance command center or d) ITMS (ANPR/RLVD/SVD/E-challan/VMS) or h) Environmental Sensors or f) PA/ Passenger Information system / ECBI in India or abroad in last 5 years. Note: Bidder can propose separate (one or more) projects for each component for evaluation."	As per RFP
73	1	38	3.5 Pre-Qualification Criteria	SR No.(v.) OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001	ISO 14000 and OHSAS are two different certificates with similar criteria, request you to kindly keep the either one "OEM should have ISO certifications ISO 9001; ISO 14000/OHSAS 18001; 2007/ISO 45001 as per industry standards" .	SR No.(v) OEM should have ISO certifications: ISO 9001; ISO 14000 <u>or</u> OHSAS 18001; 2007/ ISO 45001 (refer <b>Corrigendum-4</b> )
74	1	38	3.5 Pre-Qualification Criteria	SR No.(v.) OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001	Request you to consider OEM should have ISO certifications ISO 9001; ISO 14000/OHSAS 18001; 2007/ISO 45001 as per industry standards .	Refer reply to query at S.No. 73
75	1	38	3.5 Pre-Qualification Criteria	The OEM(s) of Camera, VMS, ICCC should be a profit-making company and should have a positive net worth for last 03 years.	Requesting the authority to make it 5 years or plus for a profit making company. The OEM(s) of Camera, VMS, ICCC should be a profit-making company and should have a positive net worth for last 05 years.	As per RFP
76	1	38	3.5 Pre-Qualification Criteria	The OEM(s) of Camera, VMS, ICCC should be a profit-making company and should have a positive net worth for last 03 years.	Requesting the authority to make it 5 years or plus for a profit making company. The OEM(s) of Camera, VMS, ICCC should be a profit-making company and should have a positive net worth for last 05 years.	Refer reply to query at S.No. 75
77	1	38	3.5 Pre-Qualification Criteria	The Lead bidder should have CMMi level 3 or higher certification	Kindly accept the CMMi Level 3 certification from any consortium member instead of lead bidder.	As per RFP
78	1	38	3.5 Pre-Qualification Criteria	The Lead bidder should have CMMi level 3 or higher certification	Kindly change the clause as below: The Lead bidder or any member of consortium should have CMMi level 3 or higher certification	Refer reply to query at S.No. 77
79	1	38	3.5 Pre-Qualification Criteria	The Lead bidder should have CMMi level 3 or higher certification.	Please accept Lead Bidder or Consortium Partner.	Refer reply to query at S.No. 77
80	1	38	3.5 Pre-Qualification Criteria	The Lead bidder should have CMMi level 3 or higher certification	Since this is the Pre-Qualification Criteria we request the tender authority to revise it as: The Lead bidder or any member of consortium should have CMMi level 3 or higher certification	Refer reply to query at S.No. 77
81	1	38	3.5 Pre-Qualification Criteria	The Lead bidder should have CMMi level 3 or higher certification	The asked certificate CMMi level 3 certificate usually belongs to a software company and that is why in many of the RFP's this certificate gets considered by the SOFTWARE OEM" . Therefore requesting you to kindly revise this clause and please consider this certificate from OEM and Consortium partner also instead of Sole Bidder or Lead bidder only . Restricting this certificate with lead bidder or sole bidder only is making competition unfair for other bidder as this certificate is majorly available with software companies only .	Refer reply to query at S.No. 77
82	1	38	3.5 Pre-Qualification Criteria	The Lead bidder should have CMMi level 3 or higher certification	We request you to please amend the clause as "The Bidder (any member in case of consortium) should have CMMi level 3 or higher certification	Refer reply to query at S.No. 77
83	1	38	3.5 Pre-Qualification Criteria	The Lead bidder should have CMMi level 3 or higher certification	you are requested to please amend the clause as below: The Lead bidder / Any Consortium member should have CMMi level 3 or higher certification	Refer reply to query at S.No. 77
84	1	38	3.5 Pre-Qualification Criteria	v.) OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001	Amendment / Change Required OEM should have ISO certifications: ISO 9001; ISO 14000 Justification : Maximum OEM supports ISO 9001 & ISO 14000 Apart, OHSAS 18001; 2007/ISO 45001 are OEM Specific and must be deleted	Refer reply to query at S.No. 73
85	1	38	3.5 Pre-Qualification Criteria	v.) OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001	Pls change the clause " OEM should have ISO certifications: ISO 9001; ISO 14000 " Justification : Maximum OEM supports ISO 9001 & ISO 14000 Apart, OHSAS 18001; 2007/ISO 45001 are OEM Specific and must be deleted	Refer reply to query at S.No. 73
86	1	38	3.5 Pre-Qualification Criteria	v. OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001	v. OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001/ISO 27001 For Camera OEMs, required ISOs are 9001, 14001 & 27001 so request you to add ISO 27001 in the option with OHSAS 18001 & ISO 45001.	Refer reply to query at S.No. 73
87	1	38	3.5 Pre-Qualification Criteria	v.) OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001	v.) OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001	Refer reply to query at S.No. 73

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88	1	38	3.5 Pre-Qualification Criteria	OEMs of camera VMS, ICC, AI based Video analytics platform, FRS, ANPR should have presence in India for last 5 years on the bid issuance date.	Modification of OEM Eligibility criteria to 3 years as most of the AI startups don't have 5 years of existence. This makes innovative technologies from Indian startups out to reach. In such case expecting 5 years old companies only to be eligible is a deterrent to get best competitive solutions. Also this technology itself got mature only in last 4 years. In such case expecting 5 years old companies only to be eligible is a deterrent to get best competitive solutions. Kindly refer to the attachment: Govt. announcement via Ministry of Micro, Small and Medium Enterprises Office Memorandum No.F.20/2/20 14-PPD(Pt.) the Ministry of Finance Department of Expenditure Procurement Policy-Division has mentioned that startups may be allowed relaxation of prior turnover and experience especially for innovative technology areas. As per the attached document "Relaxation note.pdf", given a consideration for Startups. Request kindly alternate this to 3 years	OEMs of camera VMS, ICC, AI based Video analytics platform, FRS, ANPR should have presence in India for last 3 years on the bid issuance date. (refer <b>Corrigendum-4</b> )
89	1	38	3.5 Pre-Qualification Criteria	OEMs of camera VMS, ICC, AI based Video analytics platform, FRS, ANPR should have presence in India for last 5 years on the bid issuance date	Request to change the clause " OEMs of camera VMS, ICC, AI based Video analytics platform, FRS, ANPR should have presence in India for last 3 years on the bid issuance date " Justification: Modification of OEM Eligibility criteria to 3 years as most of the AI startups don't have 5 years of existence. This makes innovative technologies from Indian startups out to reach. In such case expecting 5 years old companies only to be eligible is a deterrent to get best competitive solutions. Also this technology itself got mature only in last 4 years. In such case expecting 5 years old companies only to be eligible is a deterrent to get best competitive solutions. Kindly refer to the attachment: Govt. announcement via Ministry of Micro, Small and Medium Enterprises Office Memorandum No.F.20/2/20 14-PPD(Pt.) the Ministry of Finance Department of Expenditure Procurement Policy-Division has mentioned that startups may be allowed relaxation of prior turnover and experience especially for innovative technology areas. As per the attached document "Relaxation note.pdf", given a consideration for Startups. Request kindly alternate this to 3 years	Refer reply to query at S.No. 88
90	1	38	3.5 Pre-Qualification Criteria	OEMs of Camera, VMS, ICC, AI based Video Analytics Platform, FRS, ANPR should have Presence in India for last 5 years as on the bid issuance date.	Requesting the authority to make it 10 years or plus for proper credentials. OEMs of Camera, VMS, ICC, AI based Video Analytics Platform, FRS, ANPR should have Presence in India for last 5 years as on the bid issuance date.	Refer reply to query at S.No. 88
91	1	38	3.5 Pre-Qualification Criteria	-----	OEM Criteria for Traffic Enforcement System (ANPR, RLVD, SVD & E-challan) is not mentioned. Request you to include Since the system will be used for traffic enforcement and law & order management, proven system with successful past credentials shall be considered while selection of OEM for ITMS system, like other key systems. Hence, we request you to add few OEM criteria for ANPR, RLVD as below. 1. TES (Traffic Enforcement System) system OEM should have implemented min 3 Smart City projects of 200 lanes each, operating with all applications as required in this project like ANPR, RLVD, SVD, No-Helmet & Triple Riding violations. 2. TES solution OEM should have quality certification ISO 9001:2015, ISO 27001 & CMMI Level 3.3. The proposed system should have the capability to transfer the data to Central Command Center through proper encryption in real time. Proposed application for traffic violation detection system should adhere to National Cyber Security Policy to ensure that the critical information processed and stored by the proposed application is secure from cyber-attacks / hacking / hijacking. Bidder should submit a certificate for encryption & vulnerability assessment of "Local" as well as "Central" application on the name of TES OEM, from CERT-In empanelled testing agency in India, in support of above. 4. Proposed SVD (Speed Violation Detection) system should have existing deployment in min 5 city-wide projects in India with 500 total lanes during past 5 years. Proposed SVD system should have an accuracy of 120 kmph +/-5 kmph, tested & certified for speed accuracy from Indian government agency/s under Central Motor Vehicle Rule (CMVR) 126 like ARAI, ICAT, VRDE, GARC, etc.	Pre-qualification criteria for OEM on Traffic Enforcement System is also added now through <b>Corrigendum-4</b> which is as follows: The OEM should have implemented at least 3 projects of minimum 200 lanes operating with applications like ANPR, RLVD, SVD, No-Helmet & Triple Riding violations. The OEM should have quality certification ISO 9001:2015, ISO 27001 or CMMI Level 3.
92	1	38	3.5 Pre-Qualification Criteria	OEMs of Camera, VMS, ICC, AI based Video Analytics Platform, FRS, ANPR should have Presence in India for last 5 years as on the bid issuance date.	Requesting the authority to make it 10 years or plus for proper credentials. OEMs of Camera, VMS, ICC, AI based Video Analytics Platform, FRS, ANPR should have Presence in India for last 5 years as on the bid issuance date.	Refer reply to query at S.No. 88

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93	1	38	3.5 Pre-Qualification Criteria	10. CMMI levelThe Lead bidder should have CMMi level 3 or higher certification	10. CMMI levelThe Lead bidder/Any Consortium Member should have CMMi level 3 or higher certification.Further, CMMi Certification of Sister Concern/Subsidiary or Parent Company can also be considered . A letter/Declaration from the Organization having CMMi certification needs to submitted to the Tendeing Authority confirming the same.	Refer reply to query at S.No. 73
94	1	38	3.5 Pre-Qualification Criteria	i. OEM should have a minimum cumulative turnover of Rs. 200 Crores in last 02 financial years from the date of opening of tender	Request you to consider Turnover to cumulative 50Cr as many camera OEM who supply cameras only for Government Projects cannot meet 200 Cr Turnover, the Camera OEM who supply in Retail/channels and also supply many other Items apart from camera in the Market who may have 200cr Cr Turnover but for camera supply to government Projects they cannot meet so we request you to Consider The cumulative Turnover for Last 3 years is 50 Cr and accept the following changes. . i. OEM should have a minimum cumulative turnover of Rs. 50 Crores in last 03 financial years from the date of opening of tender	OEM should have a minimum cumulative turnover of Rs. 50 Crores in last 02 financial years from the date of opening of tender(refer <b>Corrigendum-4</b> )
95	1	38	3.5 Pre-Qualification Criteria	a. Camera OEMSi. OEM should have a minimum cumulative turnover of Rs. 200 Crores in last 02 financial years from the date of opening of tender.ii. OEM of IP CCTV cameras should have supplied at least 10,000 IP CCTV cameras in India or globally during the last 05 yearsiii. OEM of IP CCTV camera should have successfully completed at least one order for supply and installation of 1,000 IP CCTV cameras during the last 05 years.iv. OEM should have authorized service center in Indiav. OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001;2007/ISO 45001vi. Cameras; Camera Firmware; SDK; APIs etc. shall not contain any embedded malicious code which may:-o Inhibit the desired and designed functions of the equipment's and Solution.o Tap information regarding networko There are / will no Trojans, Viruses, worms, Spy wareso OEM shall be liable under Information Technology Act, 2000 and Indian Penal Code 1860 in case any Such malicious code in offered / developed softwarevii. Any component/ hardware / parts / assembly / software including firmware used in the offered solution (hardware / software) MUST NOT comply to - GB28181, GB/T 28181-2011; GB/T28181-2011; GBT 28181- 2011; GBT28181-2011 standards. Also, the IP CCTV System MUST NOT have CCC.viii. OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.ix. IP CCTV System OEM for Cameras & VMS must be a member &/or listed in the ONVIF website. The quoted products must be ONVIF compliant not conformant. Online verification of OEM in ONVIF website must be available. No OEM should be banned or suspended by ONVIF within the last five years from the date of publishing the bid	Request you to modify as following: a. Camera OEMSi. OEM should have a minimum cumulative turnover of Rs. 200 Crores in last 02 financial years from the date of opening of tender.ii. OEM of IP CCTV cameras should have supplied at least 10,000 IP CCTV cameras in India or globally during the last 05 yearsiii. OEM of IP CCTV camera should have successfully completed at least one order for supply and installation of 1,000 IP CCTV cameras during the last 05 years.iv. OEM should have authorized service center in Indiav. OEM should have ISO certifications: ISO 9001/ ISO 14000 /OHSAS 18001;2007/ISO 45001 or equivalent if applicablevi. Cameras; Camera Firmware; SDK; APIs etc. shall not contain any embedded malicious code which may:-o Inhibit the desired and designed functions of the equipment's and Solution.o Tap information regarding networko There are / will no Trojans, Viruses, worms, Spy wareso OEM shall be liable under Information Technology Act, 2000 and Indian Penal Code 1860 in case any Such malicious code in offered / developed softwarevii. Any component/ hardware / parts / assembly / software including firmware used in the offered solution (hardware / software) MUST NOT comply to - GB28181, GB/T 28181-2011; GB/T28181-2011; GBT 28181- 2011; GBT28181-2011 standards. Also, the IP CCTV System MUST NOT have CCC.viii. OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.ix. IP CCTV System OEM for Cameras & VMS must be a member &/or listed in the ONVIF website. The quoted products must be ONVIF compliant not conformant. Online verification of OEM in ONVIF website must be available. No OEM should be banned or suspended by ONVIF within the last five years from the date of publishing the bid.	Refer reply to query at S.No. 94
96	1	38	3.5 Pre-Qualification Criteria	a. Camera OEMSi. OEM should have a minimum cumulative turnover of Rs. 200 Crores in last 02 financial years from the date of opening of tender.	The criteria may kindly modify as under:a. Camera OEMSi. OEM should have a minimum cumulative turnover of Rs. 100 Crores in last 02 financial years from the date of opening of tender.	Refer reply to query at S.No. 94
97	1	38	3.5 Pre-Qualification Criteria	OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.	Amendment / Change Required OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 03 years from the date of submission of bid In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.Justification : Many OEMs to serve cusomer across nation & globedo joint venture, partnership and this is global accepted practise, Kindly consider service center with joint venture & partnershio	As per RFP
98	1	38	3.5 Pre-Qualification Criteria	OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.	OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.	Refer reply to query at S.No. 97

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99	1	38	3.5 Pre-Qualification Criteria	OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 03 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.	Pls change the clause "OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 03 years from the date of submission of bid In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received." Justification : Many OEMs to serve customer across nation & globe do joint venture, partnership and this is global accepted practise, Kindly consider service center with joint venture & partnership.	Refer reply to query at S.No. 97
100	1	38	3.5 Pre-Qualification Criteria	OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 05 years from the date of submission of bid (not as joint venture, partnership firms or through any other association). In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received.	Ammendment / Change Required OEM should have its own Repair/Service-Support center in the country and must own its RMA set up in India for a minimum of 03 years from the date of submission of bid In case of product failure OEM should replace malfunction product with equivalent working product immediately till the repaired or alternate product received. Justification : Many OEMs to serve customer across nation & globe do joint venture, partnership and this is global accepted practise, Kindly consider service center with joint venture & partnership.	Refer reply to query at S.No. 97
101	1	38	3.5 Pre-Qualification Criteria	i. OEM should have a minimum cumulative turnover of Rs. 200 Crores in last 02 financial years from the date of opening of tender.	200 Crores turnover asked is quite high and thus is a restrictive clause for Indian OEMs as per the clause no "10. Specifications in Tenders .... clause b" on page no 6 of DPIIT Public Procurement (preference to Make-in -India) order 2017 dated 16th September, 2020. "Procuring entities shall endeavour to see that eligibility conditions, including on matters like turnover, production capability and financial strength do not result in unreasonable exclusion of Class-I local supplier /Class-II local supplier..." Requesting you to amend the Clause as :a. Camera OEMs. OEM should have a minimum cumulative turnover of Rs. 100 Crores in last 02 financial years from the date of opening of tender.	Refer reply to query at S.No. 94
102	1	38	3.5 Pre-Qualification Criteria	iii.) OEM of IP CCTV camera should have successfully completed at least one order for supply and installation of 1,000 IP CCTV cameras during the last 05 years.	Ammendment / Change Required OEM of IP CCTV camera should have successfully completed at least one order for supply and installation of 1,000 IP CCTV or 2 x 500 cameras during the last 05 years. Justification : Ask for 1000 camera in one order will restrict many OEM to participate	As per RFP
103	1	38	3.5 Pre-Qualification Criteria	II. The OEM(s) of Camera, VMS, ICCV should be a profit-making company and should have a positive net worth for last 03 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 Network is certainly a Stronger Parameter. We would also like to highlight that OEMs for ICCV Software which are, only in the business of ICCV 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. Also due to the ongoing pandemic situation for the past more than one-year, businesses are badly affected ultimately affecting profitability for most of the organizations. Our above justification for the Network is duly endorsed by the PQ criteria mentioned for the Bidders in the RFP which asks for the Network of Bidders and not the Profitability. Separate yardstick should not be applied for SIS & OEMS under the requirements of this financial PQ parameter. We (completely Make in India) are fully compliant to ICCV software Technical & Functional requirements specified in the RFP with Positive Network for the last 03 consecutive Financial Years. Therefore, it is humbly requested to either delete the requirements of Profitability in this clause and Change the clause to "The OEM(s) of Camera, VM, ICCV should have a positive net worth for last 03 years" enabling us to participate in the bidding process.	As per RFP
104	1	38	3.5 Pre-Qualification Criteria	v. OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007/ISO 45001	Generally Camera OEM was not asked for OHSAS 18001, Mostly all Camera OEM will have ISO 9001, ISO 14001 and ISO 27001, Hence WE request you to consider the following changes. v. OEM should have ISO certifications: ISO 9001; ISO 14000 & OHSAS 18001; 2007 or ISO 45001 or ISO 27001	Refer reply to query at S.No. 73
105	1	38	3.5 Pre-Qualification Criteria	ii.) OEM of IP CCTV cameras should have supplied at least 10,000 IP CCTV cameras in India or globally during the last 05 years	Ammendment / Change Required This clause should be deleted Justification : With respect to latest DIPP policy, this clause will be restricted clause for many OEM and will be favouring to only one or 2 OEM, Thus restricting majority of OEM to participate	As per RFP
106	1	38	NOTE:1 Pre-Qualification Criteria for OEMs	Pre-Qualification Criteria for OEMs	Please include PQ Criteria for ATCS also.	Refer reply to query at S.No. 91



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107	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	As this is a Smart City Project, it should prominently focus on Smart City and not on Safe City. Hence, request you to please amend this clause as mentioned below: OEM of ICCC should have Installation base of at least 05 Smart Cities in India during the last 05 years. ICCC OEM shall submit PO and Completion Certificate / Installation Note as a documentary proof.	OEM of ICCC should have Installation base of at least 03 Safe City Projects / Smart Cities in India or globally during the last 05 years (refer <b>Corrigendum-4</b> )
108	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years.	It is requested to change the clause to "OEM of ICCC should have Installation base of at least 01 Safe City Projects / Smart Cities and 02 Projects in other verticals like large campuses / PSUs/Other state & Central Government Organisations in India or globally during the last 05 years" to allow larger participation of the OEMs especially the Make in India OEMs.	Refer reply to query at S.No. 107
109	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	There are limited projects in Smart City domain rolled-out in last 5 years, Please amend this clause as below "OEM of ICCC should have Installation base of at least 03 Projects in the domain of Safe City Projects / Smart Cities / Govt / PUS / Critical Infrastructure / transportation in India or globally during the last 05 years"	Refer reply to query at S.No. 107
110	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	This is a restrictive clause as most of the Indian OEMs will fail to meet this clause, hence we request to kindly amend the clause as below. OEM of ICCC should have Installation base of at least 02 Safe City Projects / Smart Cities in India or globally during the last 05 years.	Refer reply to query at S.No. 107
111	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	We hereby request you to please Amend this Clause as: "OEM of C4I should have Installation base of at least 03 Projects in India or globally during the last 05 years" This Shall Enable Level Playing field & Equal Opportunities for Maximum OEM Participation & have a Healthy Competition.	Refer reply to query at S.No. 107
112	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	We hereby request you to please Amend this Clause as: "OEM of C4I should have Installation base of at least 03 Projects in India or globally during the last 05 years" This Shall Enable Level Playing field & Equal Opportunities for Maximum OEM Participation & have a Healthy Competition. Please refer to the Advisory-18 by MoHUA which states that arbitrary, excessively restrictive, or discriminative towards the participation of Indian manufacturers should be avoided.	Refer reply to query at S.No. 107
113	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	We hereby request you to please Amend this Clause as: "OEM of C4I should have Installation base of at least 03 Projects in India or globally during the last 05 years" This Shall Enable Level Playing field & Equal Opportunities for Maximum OEM Participation & have a Healthy Competition.	Refer reply to query at S.No. 107
114	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	We request you kindly to amend the clause as under for better competition :- i. OEM of ICCC should have Installation base of at least 05 03 (three) Safe City Projects / Smart Cities/ Enterprise in India or globally during the last 05 years	Refer reply to query at S.No. 107
115	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years. ii. OEM of ICCC should have supplied at least 3 + Sub System Integration in single order during the last 05 years in India or globally.	We request you to modify the clause as under i. OEM of ICCC should have Installation base/ ongoing projects of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	Refer reply to query at S.No. 107
116	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	We understand that ICCC platform deployed in any city in India or Globally which has more than 3 smart element i.e. parking, lighting, surveillance, solid waste etc. integrated for central monitoring purpose will be considered. Because Smart City and Safe City terminology is not used globally in all city / country. Please suggest if our understanding is correct. Justification : Globally Smart City or Safe City abbreviations are not used in a general practice they usually term it as a city and smart elements are part of the project and those are integrated with central command & control software for monitoring . These terms are specifically used in INDIA.	Refer reply to query at S.No. 107
117	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	We understand that ICCC platform deployed in any city in India or Globally which has more than 3 smart element i.e. parking, lighting, surveillance, solid waste etc. integrated for central monitoring purpose will be considered. Because Smart City and Safe City terminology is not used globally in all city / country. Please suggest if our understanding is correct	Refer reply to query at S.No. 107

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118	1	39	3.5 Pre-Qualification Criteria	i. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India or globally during the last 05 years	We understand that ICCC platform deployed in any city in India or Globally which has more than 3 smart element i.e. parking, lighting, surveillance, solid waste etc. integrated for central monitoring purpose will be considered. Because Smart City and Safe City terminology is not used globally in all city / country. Please suggest if our understanding is correct. Justification : Globally Smart City or Safe City abbreviations are not used in a general practice they usually term it as a city and smart elements are part of the project and those are integrated with central command & control software for monitoring . Theses terms are specifically used in INDIA.	Refer reply to query at S.No. 107
119	1	39	3.5 Pre-Qualification Criteria	b. OEM of ICCCi. OEM of ICCC should have Installation base of at least 05 Safe City Projects / Smart Cities in India orglobally during the last 05 years	Request to modify the clause as below:OEM of ICCC should have Installation base of at least 5 Safe City Projects / Smart Cities / ICCC / City OS/ City Platform in India or globally during the last 5 years.Justification: In some global deployments smart cities are termed differently like ICCC, City OS, City Platform etc.	Refer reply to query at S.No. 107
120	1	39	3.5 Pre-Qualification Criteria	iii. ICCC should have cyber-Security certifications from UL or equivalent from any Indian certifying laboratory (Suggestion: ISO 27001)	The Clause is not giving clarity. Please amend this clause as below iii. ICCC Platform OEM should follow cyber-Security Standards of UL or equivalent from any Indian certifying laboratory (Example: ISO 27001 etc).Self Certification from the OEM on the Letterhead is required to be submitted	As per RFP
121	1	39	3.5 Pre-Qualification Criteria	ICCC should have cyber-Security certifications from UL or equivalent from any Indian certifying laboratory (Suggestion: ISO 27001)	Clarification : Please confirm if VAPT certification from other deployments will suffice for this requirement.	As per RFP
122	1	39	3.5 Pre-Qualification Criteria	iii. ICCC should have cyber Security certifications from UL or equivalent from any Indian certifying laboratory	This requirement is prohibitive in nature & specific to 1 OEM only and as such has not been asked for any Safe City / Smart City project in India till date. Therefore it is requested to Delte this clause in its entirety.	Refer reply to query at S.No. 120
123	1	39	3.5 Pre-Qualification Criteria	iii. ICCC should have cyber-Security certifications from UL or equivalent from any Indian certifying laboratory (Suggestion: ISO 27001)	We understand the ICCC OEM should be having UL certification or any Indian certifying laboratory like ISO 27001. Kindly allow Cyber security / UL or equivalent from any Indian certifying laboratory (like ISO 27001), from OEM to be submitted by Bidder at the time of UAT of the project. A declaration for the same from Bidder to be submitted in the Bid	Refer reply to query at S.No. 120
124	1	39	3.5 Pre-Qualification Criteria	OEM of VMS should have supplied at least 10,000 cameras Licenses in India or globally in qualifying orders during the last 05 years	Requesting to make it 10000 camera in a single project in India for a proper Indian credential.	As per RFP
125	1	39	3.5 Pre-Qualification Criteria	c. OEM of VMSi. OEM of VMS should have supplied at least 10,000 cameras Licenses in India or globally in qualifying orders during the last 05 yearsii. OEM certifications• VMS Should be ONVIF Profile S & G. • Should also roadmap of ONVIF Profile T/Q. Declaration for the same to be provided.	We request you to modify the clause as under.c. OEM of VMSi. OEM of VMS should have supplied at least 8,000 cameras Licenses in India or globally in qualifying orders during the last 05 yearsii. OEM certifications• VMS Should be ONVIF Profile S & G. • Should also roadmap of ONVIF Profile T/Q. Declaration for the same to be provided.Note : Ongoing Project may be considered and copy of work order should be submitted	As per RFP
126	1	39	3.5 Pre-Qualification Criteria	OEM of VMS should have supplied at least 10,000 cameras Licenses in India or globally in qualifying orders during the last 05 years	Requesting to make it 10000 camera in a single project in India for a proper Indian credential.	As per RFP
127	1	39	3.5 Pre-Qualification Criteria	i. OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities/Surveillance project at Defense, Transport Segment, with a minimum 100 Cameras in a single city, single project with AI based Video Analytics use- cases projects in India or globally from last 05 Years.	For improved participation of OEM and competitiveness, authority is requested to amend the clause as below."OEM must have supplied AI based Video Analytics platform or ANPR or FRS in minimum 02 Safe Cities/Smart Cities/Surveillance project at Defense, Transport Segment, Government entity with a minimum 50 Cameras in a single project in India or globally from last 07 Years. "	As per RFP
128	1	39	3.5 Pre-Qualification Criteria	d. AI Based Video Analytics/FRS/ANPR/Video Summarization Platformi. OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities/Surveillance project at Defense, Transport Segment, with a minimum 100 Cameras in a single city, single project with AI based Video Analytics use- cases projects in India or globally from last 05 Years	Request you to modify as following: d. AI Based Video Analytics/FRS/ANPR/Video Summarization Platformi. OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities/Surveillance project / Outdoor environment at / Defense/ Transport Segment, with a minimum 100 Cameras in a single city/ outdoor environment, single project with AI based Video Analytics use- cases projects in India or globally from last 05 Years	As per RFP
129	1	39	3.5 Pre-Qualification Criteria	d. AI Based Video Analytics/FRS/ANPR/Video Summarization Platformi. OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities/Surveillance project at Defense, Transport Segment, with a minimum 100 Cameras in a single city, single project with AI based Video Analytics use- cases projects in India or globally from last 05 Years.	Request you to please update the clause as follows [ changes highlighted in bold italics] : d. AI Based Video Analytics/FRS/ANPR/Video Summarization Platformi. OEM must have supplied AI based Video Analytics platform in minimum 02 Office Campuses / Safe Cities/Smart Cities/Surveillance project at Defense, Transport Segment, with a minimum 10 Cameras in a single city, single project with AI based Video Analytics use- cases projects in India or globally from last 05 Years.	As per RFP

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130	1	39	3.5 Pre-Qualification Criteria	d. AI Based Video Analytics/FRS/ANPR/Video Summarization Platform. OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities/Surveillance project at Defense, Transport Segment, with a minimum 100 Cameras in a single city, single project with AI based Video Analytics use- cases projects in India or globally from last 05 Years.	The PQ Condition mentioned is only for AI Based Video Analytics OEM PQ and not mentioned the FRS, ANPR Video summarization OEM PQ requirement. Please confirm, is there a OEM PQ requirement for FRS, ANPR, Video Summarization?	As per RFP
131	1	39	3.5 Pre-Qualification Criteria	i. OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities/Surveillance project at Defense, Transport Segment, with a minimum 100 Cameras in a single city, single project with AI based Video Analytics use- cases projects in India or globally from last 05 Years.	We request you to clarify the clause OEM must have supplied AI based Video Analytics platform in minimum 02 Safe Cities/Smart Cities/Surveillance project at Defense, Transport Segment. Kindly confirm our understanding any one of the below project segment consider. 02 Safe Cities or 02 Smart cities or 02 Surveillance project at defense, Transport Segment.	As per RFP
132	1	39	3.5 Pre-Qualification Criteria	OEM of server should be validated with offered ICCC and VMS software with minimum one year of existence	Request to delete this clause. Blade and GPU server specs asked in RFP are for industry standard x86 servers which support all leading OS and Hypervisor platforms to run any workload which makes this clause redundant. It is also restrictive for SI to quote specific make of ICCC and VMS software with which server OEM has validated its hardware.	This Pre-Qualification Criteria stands deleted. Refer <b>Corrigendum-4</b>
133	1	39	3.5 Pre-Qualification Criteria	OEM of server should be validated with offered ICCC and VMS software with minimum one year of existence	Request to delete this clause. Blade and GPU server specs asked in RFP are for industry standard x86 servers which support all leading OS and Hypervisor platforms to run any workload which makes this clause redundant. It is also restrictive for SI to quote specific make of ICCC and VMS software with which server OEM has validated its hardware. Additionally, this clause will be a big challenge for start-ups and SME's to participate even if they qualify on technical specs.	Refer reply to query at S.No. 132
134	1	39	3.5 Pre-Qualification Criteria	OEM of server should be validated with offered ICCC and VMS software with minimum one year of existence	Request to delete this clause. Blade and GPU server specs asked in RFP are for industry standard x86 servers which support all leading OS and Hypervisor platforms to run any workload which makes this clause redundant. It is also restrictive for SI to quote specific make of ICCC and VMS software with which server OEM has validated its hardware.	Refer reply to query at S.No. 132
135	1	39	3.5 Pre-Qualification Criteria	ii. OEM of server should be validated with offered ICCC and VMS software with minimum one year of existence	Requirements under this clause are limiting in nature as the ICCC & VMS software by most/all of the OEMs does not depend and/or pose any limitation on the performance on the server hardware being offered by a particular/various OEM(s). Therefore, this limiting clause should be deleted in its entirety.	Refer reply to query at S.No. 132
136	1	39	3.5 Pre-Qualification Criteria	ii. OEM of server should be validated with offered ICCC and VMS software with minimum one year of existence	This Clause is Restrictive. Usually ICCC Application runs on Commercially off the Shelf (COTS) Equipments, thus Binding it with a Specific OEM with Min. one year of Existence is restrictive Clause.	Refer reply to query at S.No. 132
137	1	39	3.5 Pre-Qualification Criteria	OEM should have successfully completed at least two order for supply and installation of minimum 10 PiB scale out NAS Storage in Safe Cities/Smart Cities projects in India.	Current clause is favoring specific storage OEM. Request to change this clause to "OEM should have successfully completed at least one order for supply and installation of minimum 5 PiB scale out NAS Storage / Storage in India."	As per RFP
138	1	39	3.5 Pre-Qualification Criteria	OEM should have successfully completed at least two order for supply and installation of minimum 10 PiB scale out NAS Storage in Safe Cities/Smart Cities projects in India.	Request to change this clause to "OEM should have successfully completed at least one order for supply and installation of minimum 5 PiB scale out NAS Storage / Storage in India."	As per RFP
139	1	39	3.5 Pre-Qualification Criteria	OEM should have successfully completed at least two order for supply and installation of minimum 10 PiB scale out NAS Storage in Safe Cities/Smart Cities projects in India.	Request you to please remove this clause for wider participation. And if you still want to keep this than kindly amend it as - OEM should have successfully completed at least two order for supply and installation of minimum 10 PiB scale out NAS Storage in Safe Cities/Smart Cities/any state or central government /PSU /Banking/large enterprises projects in India.	As per RFP
140	1	39	3.5 Pre-Qualification Criteria	OEM of Switches should have supplied at least 1000 field switches in India into any Smart City/Safe City projects during the last 05 years	This clause is restricting many technically compliant OEMs of switches to quote their product. Moreover there are very few safe city / smart city projects have been implemented in India and mostly are under implementation or at RFP stage. It is requested to remove this eligibility condition. Instead of this, OEM's production / supply capacity may be defined as part of eligibility criteria.	As per RFP
141	1	39	3.5 Pre-Qualification Criteria	i. OEM of Switches should have supplied at least 1000 field switches in India into any Smart City/Safe City projects during the last 05 years	Request you to consider Field Switches supply in Government Projects as there are very small Safe City projects which do not have switches up to 1000 Nos , All the Large Projects are mostly on going are very recent project. Hence request you to consider the following changes. i. OEM of Switches should have supplied at least 1000 field switches in India into any Smart City/Safe City/Government projects during the last 05 years	As per RFP
142	1	39	3.5 Pre-Qualification Criteria	g. OEM of Switches. OEM of Switches should have supplied at least 1000 field switches in India into any Smart City/Safe City projects during the last 05 years	We assume that this clause is meant for Industrial Grade Switch OEM only (which would be installed at field location and connects all field devices (camera, ECB, PAS). Please confirm	As per RFP

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143	1	39	3.5 Pre-Qualification Criteria	Additional Clause	The VMS Software OEM must submit minimum 8 nos. of satisfactory running certificates from any govt./airport/city surveillance/smart city project with in last two years.	Not accepted
144	1	39	3.5 Pre-Qualification Criteria	Additional Clause	The VMS, VA, ITMS and FRS software preferred to be seamlessly integrated. If Group of software quoted then as proof of integration, need to submit minimum single installation of 10000 camera VMS, Analytics, ITMS and FRS project information where minimum 1000 camera video analytics, 1000 camera ITMS (ex. ANPR) and 1000 camera face recognition is installed. PO copy must accompany the bid document.	Not accepted
145	1	40	3.5 Pre-Qualification Criteria	• The "Employer" reserves the right to award the Contract in compliance with the 'Make in India' Initiative /directives issued by GoI and polices towards MSME.	Please elaborate on "right to award the Contract in compliance with the 'Make in India' Initiative"Will there be change in MSI technical evaluation as there is no marking considered for Make In India products consideration?	As per RFP
146	1	40	3.5 Pre-Qualification Criteria	• Preference to Local suppliers as per latest amendment in Public Procurement Policy (Make in India) policy to promote 'Make in India' and 'Aatma Nirbhar Bharat.	Please elaborate the 'Preference' from customer point of view as MSI are always consider the PQ qualified OEM products and many Indian OEMs are not having PQ reference as mentioned in RFP. Shall we assume that the "OEM PQs mentioned in this RFP is not applicable for 'Make In India' products?Required PMI certificate should be issued by OEM's Authorized Signatory.	As per RFP
147	1	40	3.5 Pre-Qualification Criteria	Eligibility in Vol 1 as well as Vol 1 with tech specs of UPS are given.	Kindly advice which one to follow	The question is not clear
148	1	40	3.5 Pre-Qualification Criteria	At least one order covering minimum installation base of 1000 outdoor UPS for a project.	Kindly provide optin as "Or" OEM must have supplied UPS(min. 30kva or higher) to at least 10 different Smart Cities for ICC/DC load	As per RFP
149	1	40	3.5 Pre-Qualification Criteria	At least one order covering minimum installation base of 1000 outdoor UPS for a project.	Please modify as At least one order covering minimum installation base of 750 outdoor UPS for a project.	As per RFP
150	1	40	3.5 Pre-Qualification Criteria	iv. OEM Should have annual turnover of > 100 CR for consecutive 03 Years and same should be authorize from Reputed Agency.	Request to decrease the annual turnover to 75 Cr for 3 consecutive years	As per RFP
151	1	41	3.10.1. Video Analytics Usecases in the City	3.10.1. Video Analytics Use cases in the City	3.10.1. Video Analytics Use cases in the City is not part of GIS Scope and request to move to the relevant section.	As per RFP
152	1	42	3.7 Technical Marking Matrix	ICT componentsThe Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control centerThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	ICT componentsThe Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment/Data Center for Safe or Smart City. 2) Network/LAN/WAN with more than 1000 nodes/ OFC Cabling/ Bandwidth3) Command and control centerThe marks shall be 3 per project with maximum limit of 12 marks. However, Bidders having less than 2 projects are not eligible to bid.	Refer <b>Corrigendum-4</b> in this regard
153	1	42	3.7 Technical Marking Matrix	1. Annual Turnover:Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marks From Rs.500 up to Rs. 600 Cr.= 5 marksFrom Rs.400 up to 500 Cr.= 4 marksFrom Rs.300 up to 400 Cr.= 3 marksFrom Rs.200 up to 300 Cr.= 2 marksLess than 200 cr. Not eligible to bid Specific Business Areas -ICT/IT Infrastructure/enabled services/ITMS/ANPR/VMS	Considering the size of the project and estimate given in the portal, we request the authority to reduce the turnover requirement as below.>= Rs.250 Cr.= 6 marks >= Rs.225 to < 250 Cr.= 4 marks>= Rs.200 to < 225 Cr.= 2 marks<200 cr. Not eligible to bid	Refer reply to query at S.No. 152
154	1	42	3.7 Technical Marking Matrix	CMMi certification: CMMi Level 3 and above = 4 marks (For Sole or Lead partner)	CMMi certification: CMMi Level 3 = 2 marks, CMMi Level 5 = 4 marks (For Sole or Lead partner)	Refer reply to query at S.No. 152
155	1	42	3.7 Technical Marking Matrix	CMMi certification:CMMi Level 3 and above = 4 marks (For Sole or Lead partner)	Kindly change the clause as below:CMMi certification:CMMi Level 3 and above = 4 marks (For Sole or Lead partneror any member of consortium)	Refer reply to query at S.No. 152
156	1	42	3.7 Technical Marking Matrix	CMMi certifications:CMMi Level 3 and above = 4 Marks (For sole or lead bidder)	Request you to amend the clause asCMMi certifications:CMMi Level 3 = 3 Marks (For sole or lead bidder)CMMi Level 5 = 4 Marks (For sole or lead bidder)	Refer reply to query at S.No. 152
157	1	42	3.7 Technical Marking Matrix	CMMi certification:CMMi Level 3 and above = 4 marks (For Sole or Lead partner)	Request you to kindly amend clause as below:CMMi certification:CMMi Level 3 and above = 1 marks (For Sole or Lead partner)CMMi Level 5 3 and above = 4 marks (For Sole or Lead partner)	Refer reply to query at S.No. 152
158	1	42	3.7 Technical Marking Matrix	CMMi certification:CMMi Level 3 and above = 4 marks (For Sole or Lead partner)	This clause can be restrictive in nature, therefore we request the tender authority to kindly allow any member of the consortium to fulfill this criteria	Refer reply to query at S.No. 152
159	1	42	3.7 Technical Marking Matrix	CMMi certification:CMMi Level 3 and above = 4 marks (For Sole or Lead partner)	We request you to please amend the clause as "CMMi certification:CMMi Level 3 and above = 4 marks (For Sole bidder or any member in case of consortium)	Refer reply to query at S.No. 152
160	1	42	3.7 Technical Marking Matrix	CMMi certification:CMMi Level 3 and above = 4 marks (For Sole or Lead partner) - Valid CMMi Certificate for Lead partner.	you are requested to please amend the clause as Valid CMMi Certificate for Lead partner/Any consortium member	Refer reply to query at S.No. 152

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161	1	43	3.5 Pre-Qualification Criteria	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):.....	In interest of fair, transparent and wider participation from experienced Global Bidders, We request following modifications: The Bidder (any member in case of consortium) shall have successfully executed projects in last seven (07) years (excluding civil works):..... The said tenure of project experience is as per industry standard and the same is acceptable in Muzaffarpur Smart City, Saharanpur Smart City, Bareilly Smart City, Ahmedabad Safe city etc.	Refer reply to query at S.No. 152
162	1	43	3.7 Technical Marking Matrix	You have asked for 12 project and allocated 1 marks to each project	Request you to change it to 6 project and allocate 2 marks to each project	Refer reply to query at S.No. 152
163	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center The marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	As the number of projects required for scoring full marks is 12, we request the authority to kindly consider the projects with server, storage, Data center establishment projects as below: The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment / Datacenter with server-storage 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center	Refer reply to query at S.No. 152
164	1	43	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/echallan) orb) ATCS orc) Environmental Sensors or d) PA/ Passenger Information system / ECB The marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	GIS, egov (Mobile app) etc are the other key important smart elements used in major of the smart cities project. Hence we request you to amend the clause as below, also this will allow wider participation. The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/echallan) orb) ATCS /GIS/Mobile app orc) Environmental Sensors or d) PA/ Passenger Information system / ECB The marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Refer reply to query at S.No. 152
165	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center The marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Kindly change the clause as below: The Bidder (any member in case of consortium) shall have successfully executed projects in last seven (07) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center Number of projects: Marks 5 Projects: 12 Marks 4 Projects: 10 Marks 3 Projects: 5 Marks However, Bidders having less than 3 projects are not eligible to bid.	Refer reply to query at S.No. 152
166	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center	Request you to kindly amend as below. The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes Large IT system integration Projects (Project value should not less than 20 cr.) 3) Command and control center	Refer reply to query at S.No. 152
167	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center The marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	The clause is too stringent. It would not be possible for any Small/Medium scale organization to fulfill this clause. Such restrictive clause affects the entry of the participants which in turn would affect in competition. Moreover, Being System Integrator it is not possible for any organization to have, asked Project value experience of any single/multiple projects. Therefore, we request authority to please amend the clause as below: "The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 800 nodes 3) Command and control center The marks shall be 1 per project 2 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects 2 projects are not eligible to bid."	Refer reply to query at S.No. 152
168	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works): Number of projects executed in any of the following 3 areas: 1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center The marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	The Smart/ Safe City Projects are new to the industry and have not yet been implemented as they are either in RFP stage or implementation stage. In order to have wider participation of financially strong and capable bidders in the security surveillance domain, the following changes are requested. 1) "Tier-III Data centre" may be amended as "Datacenter". 2) "Network/LAN/WAN with more than 1000 nodes" may be amended as "Network/LAN/WAN" 3) Project count may be kept at 5 projects instead of 12 projects.	Refer reply to query at S.No. 152



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169	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control centerThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Tw we would like to request you kindly modify the clause like below : "The Bidder (any member in case of consortium) shall have successfully executed projects in last Seven (7) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center• Number of Projects 5 or more= 12 marks• Number of Projects 4 = 8 marks• Number of projects 3= 6 marks "	Refer reply to query at S.No. 152
170	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control centerThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	We request you to please amend the clause as " The Bidder (any member in case of consortium) shall have successfully executed projects in last seven (07) years (excluding civil works):Number of projects executed in any of the following 4 areas1) Tier-III Data Center/DR establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center/Control room setup4) Security Operations CenterThe marks shall be 3 per project with maximum limit of 12 marks. However, Bidders having less than 2 projects are not eligible to bid.	Refer reply to query at S.No. 152
171	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control centerThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	We understand that smart city or similar projects have started in India only in last 5-6 years hence most of the MSIs won't be having 12 no of projects thus making this clause restrictive. Also Tier III data center establishment are very specific and doesnot matches with the same required in Pre qualification. Hence we request you kindly to amend the clause as under:- The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 500 nodes/ more than 10 kms of optical fibre 3) Command and control centerThe marks shall be 1 3 per project with maximum limit of 12 marks. However, Bidders having less than 3 1 projects are not eligible to bid. Kindly confirm that if one project is qualified for more than one criteria, that project will be considered for both the criterias. Hence marks will be provided for both the criterias	Refer reply to query at S.No. 152
172	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control centerThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	We understand that the tender authority is seeking competency in ICT components and since for integration of similar nature projects OFC network is one of the key component, therefore we request the tender authority to kindly expand the criteria to include OFC laying.We suggest the criteria to be modified as:The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center4) Laying of OFC with for at least 50 KMsThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Refer reply to query at S.No. 152
173	1	43	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control centerThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Tw we would like to request you kindly modify the clause like below : "The Bidder (any member in case of consortium) shall have successfully executed projects in last Seven (7) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Data Center establishment 2) Network/LAN/WAN with more than 1000 nodes 3) Command and control center• Number of Projects 5 or more= 12 marks• Number of Projects 4 = 8 marks• Number of projects 3= 6 marks	Refer reply to query at S.No. 152

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174	1	43	3.7 Technical Marking Matrix	"Sole Bidder/any Member of Consortium: 1. Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. 2. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letterhead3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client.OR In case of large orders/orders with operations & maintenance phase, the completion/self-certificate may specify successful execution and in-operation status of a part of the order meeting the requirement. The format of the self- certificate is provided in this RFP volume I.In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project.""Copies of respective work orders confirming month + year and area of activity to be attested by authorized signatory Signed confirmation that applicant held the responsibility of prime Contractor. Completion certificates along with certified documents as per the requirements. (Items of PO and completion certificates must match)For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client.""Completion certificates along with certified documents as per the requirements. (Items of PO and completion certificates must match)For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client."	Considering the fact that BSNL, being a wholly owned Government of India PSU, has been entrusted to implement a lot of National Importance projects by Department of Defense/ Telecom/Department of Finance etc, these are confidential in nature due to National Security we request the authority to allow Self-Certification by officers of CPSU Bidders for projects wherein NDA /confidentiality agreement have been signed."Considering the fact that ongoing projects with 50% of the CAPEX completed are allowed against this criteria, as well as the fact that , certificate issued by the Company Secretary / Chartered Accountant as allowed in case of NDA.We request the tender authority to please allow certificate issued by the Statutory Auditor / Chartered Accountant in lieu of certificate from the client, as on many government project partial completion certificates are not issued by the client."	Refer reply to query at S.No. 152
175	1	43	3.7 Technical Marking Matrix	Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	As per asked RFP clause & to get full marks, bidder needs to have more than Rs. 600 Cr but as per the norms the asked turnover must not exceed the project expected value. Along with that successful bidder will get this estimated value in next 6.5 years i. e (1.5 year Implementation + 5 year O&M) but this much Turnover in for current years will not make this bid fair. Although this criteria will only allow Big companies to participate. Therefore requesting you to please make it More than 150 Cr. 6>130 Cr. To <=140 Cr. 5>120 Cr. To <=130 Cr. 4>110 Cr. To <=120 Cr. 3>100 Cr. To <=110 Cr. 2Less than 100 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	Refer reply to query at S.No. 152
176	1	43	3.7 Technical Marking Matrix	Average annual turnover for Sole bidder or Lead bidder (in case of consortium).Marks shall be allotted as given below: More than Rs.800 Crore = 06 marksRs. 600 Crore to 800 Crore =04 marksRs. 400 Crore to 600 Crore = 02 marksLess than 400 Crore =Not eligible to bid	Average annual turnover for Sole bidder or Lead bidder (in case of consortium).Marks shall be allotted as given below: More than Rs.600 Cr.= 6 marksFrom Rs.400 upto Rs. 600 Cr.= 5 marksFrom Rs.200 upto 400 Cr.= 4marksLess than 200 cr. Not eligible to bid	Refer reply to query at S.No. 152
177	1	43	3.7 Technical Marking Matrix	Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	We request authority to relax the given criteria, so as to get maximum participation and Competitive commercials. Hence kindly amend the clause as given below:"Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr. Rs.100 Cr and more= 5 marksFrom Rs.400 upto 500 Cr.Rs.75 upto Rs. 100 Cr = 4 marksFrom Rs.300 upto 400 Cr.Rs.50 upto Rs. 75 Cr = 3 marks From Rs.200 upto 300 Cr.30 upto Rs.50 Cr= 2 marksLess than 200 cr. Less than 30 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	Refer reply to query at S.No. 152

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
178	1	43	3.7 Technical Marking Matrix	Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below: (Marking for Lead bidder in case of consortium)More than Rs.600 Cr.= 6 marks From Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	We request you to modify the clause as Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below: (Marking for Lead bidder in case of consortium)More than Rs.300 Cr.= 6 marks From Rs.200 upto 300 Cr.= 4 marksFrom Rs.100 upto 200 Cr.= 2 marksLess than 100 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	Refer reply to query at S.No. 152
179	1	43	3.7 Technical Marking Matrix	Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	We request you to please amend the clause as "Average annual turnover for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years from Indian Operations only. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bid	Refer reply to query at S.No. 152
180	1	43	3.7 Technical Marking Matrix	Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium)More than Rs.600 Cr.= 6 marks From Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marks Less than 200 cr. Not eligible to bidSpecific Business Areas-ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	We would like to request you kindly modify the clause like below : Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 50% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium)More than Rs.280 Cr.= 06 marks Rs. 240 to 280 Cr. =04 marks Rs. 200cr. to 240cr = 03 marks Less than 200 cr. Not eligible to bidSpecific Business Areas-ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	Refer reply to query at S.No. 152
181	1	43	3.7 Technical Marking Matrix	Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	You are requested to please ammend the clause as per below.Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) /consortium partners jointly meet the turnover criteria over the last three Financial years. More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	Refer reply to query at S.No. 152
182	1	43	3.7 Technical Marking Matrix	Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	You are requested to please consider the EPC Turnover also & ammend the clause as per below.Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS/EPC	Refer reply to query at S.No. 152

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
183	1	43	3.7 Technical Marking Matrix	Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium)More than Rs.600 Cr.= 6 marks From Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marks Less than 200 cr. Not eligible to bidSpecific Business Areas-ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS	You are requested to please consider the EPC Turnover also & ammend the clause as per below.Average annual turnover from "Specific Business Areas" as mentioned below for Sole bidder or Lead bidder (in case of consortium) and consortium partners over the last three Financial years. Out of total value of turnover; at least 60% from Lead bidderIn case of Sole bidder 100% turnover to be from Sole bidder. Marks shall be allotted as given below:(Marking for Lead bidder in case of consortium) More than Rs.600 Cr.= 6 marksFrom Rs.500 upto Rs. 600 Cr.= 5 marksFrom Rs.400 upto 500 Cr.= 4 marksFrom Rs.300 upto 400 Cr.= 3 marksFrom Rs.200 upto 300 Cr.= 2 marksLess than 200 cr. Not eligible to bidSpecific Business Areas -ICT/IT Infrastructure/ enabled services/ITMS/ANPR/VMS/EPC	Refer reply to query at S.No. 152
184	1	43	3.7 Technical Marking Matrix	Supporting Documents RequiredSole Bidder/any Member of Consortium:1. Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order.2. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letterhead3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client.OR In case of large orders/orders with operations & maintenance phase, the completion/self-certificate may specify successful execution and in-operation status of a part of the order meeting the requirement. The format of the self-certificate is provided in this RFP volume I.In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project.	Supporting Documents RequiredSole Bidder/any Member of Consortium:1. Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order.2. Completion Certificate issued & signed by the competent authority of the client entity on the entity's letterhead3. For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client or Bidders Chartered AccountantOR In case of large orders/orders with operations & maintenance phase, the completion/self-certificate may specify successful execution and in-operation status of a part of the order meeting the requirement. The format of the self-certificate is provided in this RFP volume I.In case of NDA, Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project.	Refer reply to query at S.No. 152
185	1	43	3.7 Technical Marking Matrix	2. "The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fiber Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	Generally in a consortium the Major lead bidders will team-up with ITS solution providers to offer a comprehensive bid to customer. 10 project reference may not be available with majority bidders. Request to revise as below."The Bidder (any member in case of consortium) shall have successfully executed projects in last 7 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 50 ANPR Channels in each project• Video Management System with minimum 100 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fiber Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	Refer reply to query at S.No. 152
186	1	43	3.7 Technical Marking Matrix	2. Experience in development / implementation of Smart Elements"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	Request you to modify as following: 2. Experience in development / implementation of Smart Elements"The Bidder (any member in case of consortium) shall have successfully executed projects in last 7 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 50 ANPR Channels in each project• Video Management System with minimum 500 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 10 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted as below:4 Projects- 10 Marks3 Projects-8 Marks2 Projects- 6 Marks.	Refer reply to query at S.No. 152

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187	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels/ 10 Junctions in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 3 per project with maximum limit of 10 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Refer reply to query at S.No. 152
188	1	44	3.7 Technical Marking Matrix	"The Bidder (any member incase of consortium) shall havesuccessfully executed projects inlast 5 years: each project shouldinclude any of the twocomponents from below list-• ITMS (RLVD or SVD or ANPRor VMS and e-Challan or ITS)with minimum 200 ANPRChannels in each project• Video Management Systemwith minimum 1000 VideoChannels in each project• Artificial Intelligence basedVideo Analytics onminimum 50 AI VA Channelsin each Project• AI based Facial RecognitionSystem, with minimum 25channels in each project• Optical FibreCommunications/Sensors/Switches• PA/ECB with minimum 25end-points in each projectThe marks shall be allotted 1 perproject with maximum limit of10 marks. However, Biddershaving less than 3 projectexperience are not eligible tobid.	As the number of projects required for scoring full marks is 10, We request you to kindly amend the criteria as follows:"The Bidder (any member incase of consortium) shall havesuccessfully executed projects inlast 5 years: each project shouldinclude any of the Onecomponents from below list-• ITMS (RLVD or SVD or ANPRor VMS and e-Challan or ITS)with minimum 200 ANPRChannels in each project• Video Management Systemwith minimum 1000 VideoChannels in each project• Artificial Intelligence basedVideo Analytics onminimum 50 AI VA Channelsin each Project• AI based Facial RecognitionSystem, with minimum 25channels in each project• Optical FibreCommunications/Sensors/Switches• PA and ECB with minimum 25end-points in each projectThe marks shall be allotted 1 perproject with maximum limit of10 marks. However, Biddershaving less than 3 projectexperience are not eligible tobid.	Refer reply to query at S.No. 152
189	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	Kindly change the clause as below:"The Bidder (any member in case of consortium) shall have successfully executed projects in last 7 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS or e-Challan or ITS) • Video Management System • Artificial Intelligence based Video Analytics • AI based Facial Recognition System, • Optical Fibre Communications/Sensors/ Switches• PA/ECB Number of projects: Marks5 Projects: 10 Marks4 Projects: 8 Marks3 Projects : 5 MarksHowever, Bidders having less than 3 project experience are not eligible to bid.	Refer reply to query at S.No. 152
190	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have...	Please include ATCS as one component with min 100 traffic controllers.	Refer reply to query at S.No. 152
191	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project■ Video Management System with minimum 1000 Video Channels in each project■ Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project■ AI based Facial Recognition System, with minimum 25 channels in each project■ OpticalFibre Communications/Sensors/ Switches■ PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	Request you to kindly amend clause as below:"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project■ Video Management System with minimum 1000 Video Channels in each project■ Artificial Intelligence based Video Analytics / Video Analytics on minimum 50 AI VA Channels in each Project■ AI based Facial Recognition System, with minimum 25 channels in each project■ OpticalFibre Communications/Sensors/ Switches■ PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of10 marks. However, Bidders having less than 3 project experience are not eligible to bid.Marks shall be allotted as below:• Number of Projects 6 or more= 10 marks• Number of Projects 5 = 07 marks• Number of projects >3 and <5 = 04 marks• Less than 3 projects not eligible	Refer reply to query at S.No. 152



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192	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project■ Video Management System with minimum 1000 Video Channels in each project■ Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project■ AI based Facial Recognition System, with minimum 25 channels in each project■ OpticalFibre Communications/Sensors/ Switches■ PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	Request you to kindly amend clause as below:"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or VMS or and e-Challan or ITS) with minimum 200 ANPR Channels in each project■ Video Management System with minimum 1000 Video Channels in each project■ Artificial Intelligence based Video Analytics / Video Analytics on minimum 50 AI VA/VA Channels in each Project■ AI based Facial Recognition System, with minimum 25 channels in each project■ OpticalFibre Communications/Environmental Sensors/ Network Switches■ PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of10 marks. However, Bidders having less than 3 project experience are not eligible to bid.Marks shall be allotted as below:• Number of Projects 6 or more= 10 marks• Number of Projects 5 = 07 marks• Number of projects >3 and <5 = 04 marks• Less than 3 projects not eligible	Refer reply to query at S.No. 152
193	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	The Smart/ Safe City Projects are new to the industry and have not yet been implemented as they are either in RFP stage or implementation stage.In order to have wider participation of financially strong and capable bidders in the security surveillance domain, the following changes are requested.1) "Artificial Intelligence based Video Analytics ( VA)" may bereplaced with " Video Analytics ( VA)"2) "AI based Facial Recognition System (FRS)" may be replaced with "Facial Recognition System (FRS)"3) "PA/ECB with minimum 25 end-points in each project" may be replaced with "PA/ECB".4) Project count may be kept at 5 projects instead of 10 projects	Refer reply to query at S.No. 152
194	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	We request authority to relax the given criteria, so as to get maxixmum participation and Competitive commercials. Hence kindly amend the clause as given below:"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR 100 ANPR Channels in each project• Video Management System with minimum 1000 800 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 30 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 15 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project 2 per project with maximum limit of 10 marks. However, Bidders having less than 3 project 2 projects experience are not eligible to bid."	Refer reply to query at S.No. 152
195	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	We request you to please amend the clause as "The Bidder (any member in case of consortium) shall have successfully executed projects in last 7 years: each project should include any of the two components from below list-■ ITMS (RLVD or SVD or ANPR or ATMS or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each project• Networking/Security Components• Server/Storage/ CCTV CamerasThe marks shall be allotted 2 per project with maximum limit of 10 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Refer reply to query at S.No. 152

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
196	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	We understand that smart city or similar projects have started in India only in last 5-6 years hence most of the MSIs won't be having 10 no of projects thus making this clause restrictive. Hence we request you kindly to amend the clause as under:- "The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 7 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 200 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB/ Passenger Information System with minimum 25 end-points in each project• CCTV surveillance cameras- 150 nos• Servers/ Storage/ NMSThe marks shall be allotted 1 3 (three)per project with maximum limit of 10 9 (nine) marks. However, Bidders having less than 3 1 project experience are not eligible to bid.	Refer reply to query at S.No. 152
197	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	We understand that the tender authority is seeking project experience in the given components, since of the projects work orders are specific to the number of junction and/or cameras we request the tender authority to modify the criteria as:"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 10 Junctions in each project• Video Management System with minimum 100 Cameras in each project• Artificial Intelligence based Video Analytics on minimum 50 Cameras for AI VA in each Project• AI based Facial Recognition System, with minimum 25 Cameras in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks.However, Bidders having less than 3 project experience are not eligible to bid.	Refer reply to query at S.No. 152
198	1	44	3.7 Technical Marking Matrix	"The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include any of the two components from below list-• ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project• Video Management System with minimum 1000 Video Channels in each project• Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project• AI based Facial Recognition System, with minimum 25 channels in each project• Optical Fibre Communications/Sensors/ Switches• PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	You are requested to please ammend the marking structure as per below.Marks shall be 1 Project - 3Marks2 Project - 6Marks3 Projects -10 Marks	Refer reply to query at S.No. 152
199	1	44	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 years: each project should include .....In interest of fair, transparent and wider participation from experienced Global Bidders,We request following modifications:.		Refer reply to query at S.No. 152
200	1	44	3.7 Technical Marking Matrix	4 (A). The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Kindly revise the clause as belowThe bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECB1 project of 20Crs - 4 marks1 Project of 40 Crs or 2 projects of 30Crs - 8 marks1 Project of 80 Crs or 3 projects of 30 Crs - 12 Marks	Refer reply to query at S.No. 152
201	1	44	3.7 Technical Marking Matrix	4 (A)Implementation of Smart City ComponentThe bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Request you to modify as following: 4 (A)Implementation of Smart City ComponentThe bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECBThe marks shall be allotted as below:4 Projects- 12 Marks3 Projects-10 Marks2 Projects- 8 Marks.	Refer reply to query at S.No. 152

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202	1	45	3.7 Technical Marking Matrix	The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Request you to change it to 2 marks per project and maximum of 5 projects. Also delete the capping of 2 project	Refer reply to query at S.No. 152
203	1	45	3.7 Technical Marking Matrix	The marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Request you to change it to 2 marks per project and maximum of 5 projects. Also delete the capping of 3 project	Refer reply to query at S.No. 152
204	1	45	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMS ord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Request you to kindly amend clause as below:The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMS ord) Environmental Sensors ore) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.Marks shall be allotted as below:• Number of Projects 8 or more= 11 marks• Number of Projects >5 & <8 = 08 marks• Number of projects >2 & <5 = 05 marks• Less than 2 projects not eligible	Refer reply to query at S.No. 152
205	1	45	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 3 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Refer reply to query at S.No. 152
206	1	45	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre /Network Operations Centre(NOC)orb) Surveillance command centreorc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	We request authority to relax the given criteria, so as to get maximum participation and Competitive commercials. Hence kindly amend the clause as given below:"The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre /Network Operations Centre(NOC)orb) Surveillance command centreorc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project 2.2 project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid."	Refer reply to query at S.No. 152
207	1	45	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	We request you kindly to amend the clause as under:- The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMS (ANPR/ RLVD/ SVD)ord) Environmental Sensorse) PA system/ Passenger Information system/ ECBorf) CCTV surveillance camerasorg) ATCS systemorh) Echallan systemori) AI based Analytics/ Face recognition systemorj) Video Management SystemProjects can be of have one or more of the above-mentioned categories components integrated.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 2 (two) per project per component integration in Central / State / PSU projects with maximum limit of 11 marks. 12 marks. However, Bidders having less than 2 project integration experience are not eligible to bid.	Refer reply to query at S.No. 152
208	1	45	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSd) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	We request you to modify the clause as under.The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMS ord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 2 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Refer reply to query at S.No. 152

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209	1	45	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSd) Environmental Sensors) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	We request you to please amend the clause as "The bidder (Including any member in case of Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)b) Surveillance command centre orc) ITMSd) Environmental Sensors) PA system/ Passenger Information system/ ECBf) Body Worn Cameras/Mobile Surveillance Projects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 3 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid. Accordingly, threshold (i.e. 11 marks) can be revised to facilitate maximum industry participation/call for competition.	Refer reply to query at S.No. 152
210	1	45	3.7 Technical Marking Matrix	• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Project count may be kept at 5 projects instead of 12 projects for wider participation by competent bidders.	Refer reply to query at S.No. 152
211	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	1) As the PatnaSafe City Project is principally Security and Surveillance project, it is suggested to add (1) CCTV Surveillance and (2) Access control system in the experience List2) Project count may be kept at 5 projects instead of 12 projects for wider participation by competent bidders.	Refer reply to query at S.No. 152
212	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e challan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	he bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e challan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECB e) eGovernance/ERPThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Refer reply to query at S.No. 152
213	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Kindly change the clause as below:The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSorc) Environmental Sensors ord) PA/ Passenger Information system / ECBNumber of projects:Mark5 Projects:12 Marks4 Projects: 10 Marks3 Projects : 5 MarksHowever, Bidders having less than 3 projects are not eligible to bid.	Refer reply to query at S.No. 152
214	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Request you to kindly amend clause as below:The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCS orc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.Marks shall be allotted as below:• Number of Projects 10 or more= 12 marks• Number of Projects > 6 = 08 marks• Number of projects >3 & < 6= 04 marks• Less than 3 projects not eligible	Refer reply to query at S.No. 152
215	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	Request you to kindly amend clause as below:The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCS orc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.Marks shall be allotted as below:• Number of Projects 10 or more= 12 marks• Number of Projects > 6 & < 10 = 08 marks• Number of projects >3 & < 6= 04 marks• Less than 3 projects not eligible	Refer reply to query at S.No. 152
216	1	45	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last five (05) years (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment2) Network/LAN/WAN with more than 1000 nodes3) Command and control centerThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	The Bidder (any member in case of consortium) shall have successfully executed / ongoing projects in last five (05) years as on bid submission date (excluding civil works):Number of projects executed in any of the following 3 areas1) Tier-III Data Center establishment2) Network/LAN/WAN with more than 1000 nodes3) Command and control centerThe marks shall be 2 per project with maximum limit of 12 marks. However, Bidders having less than 2 projects are not eligible to bid.	Refer reply to query at S.No. 152

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217	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/echallan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	The clause is too stringent. It would not be possible for any Small/Medium scale organization to fulfill this clause. Such restrictive clause affects the entry of the participants which in turn would affect in competition. Moreover, Being System Integrator it is not possible for any organization to have, asked Project value experience of any single/multiple projects. Therefore, we request authority to please amend the clause as below:"The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/echallan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECBThe marks shall be 1 per project 2 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects 2 projects are not eligible to bid."	Refer reply to query at S.No. 152
218	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	We kindly request to modify the clause as The bidder (any member in case of consortium) should have experience in implementation / ongoing of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 2 per project with maximum limit of 12 marks. However, Bidders having less than 2 projects are not eligible to bid.	Refer reply to query at S.No. 152
219	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	We request you kindly to amend the clause as under:- The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECBore) CCTV surveillance cameraThe marks shall be 1 4 (four)per project with maximum limit of 12 marks. However, Bidders having less than 3 1 projects are not eligible to bid.	Refer reply to query at S.No. 152
220	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCSc) Environmental Sensorsord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid	We request you to please amend the clause as " The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e-challan)orb) ATCS(ATMSc) Environmental Sensorsrd) PA/ Passenger Information system / ECBe) Networking/WiFi access pointsThe marks shall be 3 per project with maximum limit of 12 marks. However, Bidders having less than 2 projects are not eligible to bid	Refer reply to query at S.No. 152
221	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	We would like to request you kindly modify the clause like below : The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCS orc) Environmental Sensors ord) PA/ Passenger Information system / ECB. No. of successfully executed projects 2 or more=12 marks• No. of Successfully executed projects 1 = 8 Marks• Less than 1 Projects no marks	Refer reply to query at S.No. 152
222	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.	You are requested to please ammend the marking structure as per below.Marks shall be1 Project - 4 Marks2 Project - 8 Marks3 Projects -12 Marks	Refer reply to query at S.No. 152
223	1	45	3.7 Technical Marking Matrix	The bidder (any member in case of consortium) should have experience in implementation of projects with any of the following of smart features: -a) ITMS (ANPR/RLVD/SVD/e- challan)orb) ATCSc) Environmental Sensors ord) PA/ Passenger Information system / ECBThe marks shall be 1 per project with maximum limit of 12 marks. However, Bidders having less than 3 projects are not eligible to bid.		Refer reply to query at S.No. 152



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224	1	45	3.7 Technical Marking Matrix	Required supporting documentsCopies of respective work orders confirming month + year and area of activity to be attested by authorized signatory Signed confirmation that applicant held the responsibility of prime Contractor. Completion certificates along with certified documents as per the requirements. (Items of PO andcompletion certificates must match)For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client.	Required supporting documentsCopies of respective work orders confirming month + year and area of activity to be attested by authorized signatory Signed confirmation that applicant held the responsibility of prime Contractor. ( OR) Completion certificates along with certified documents as per the requirements. (Items of PO and completion certificates must match)For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client.	Refer reply to query at S.No. 152
225	1	45	3.7 Technical Marking Matrix	Required supporting documents:Completion certificates along with certified documents as per the requirements. (Items of PO and completion certificates must match)For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client.	We kindly request you to modify the clause as under Completion certificates along with certified documents as per the requirements. (Items of PO and completion certificates must match)For the project under execution either Go Live or should have completed 50 % of the CAPEX part and communication in the form of a certificate from client or Self declaration from bidder with clearly mentioning the scope of work and status of project.	Refer reply to query at S.No. 152
226	1	45	3.7 Technical Marking Matrix	4 (B). The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: - a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Kindly revise as belowThe bidder (Including Consortium) should have demonstrable expertise and experience in Integration of control center with following smart features: - a)Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:Marks shall be allotted as below1 project of 20Cr - 4 marks1 Project of 40 Crs or 2 projects of 30Cr - 8 marks1 Project of 80 Crs or 3 projects of 30 Crs - 12 Marks	Refer reply to query at S.No. 152
227	1	45	3.7 Technical Marking Matrix	4 (B) Integration of smart ICCC PlatformThe bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	4 (B) Integration of smart ICCC PlatformThe bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories.Bidder have successfully executed projects in last 7 years:The marks shall be allotted as below:4 Projects- 11 Marks3 Projects-9 Marks2 Projects- 7 Marks.	Refer reply to query at S.No. 152
228	1	46	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	Kindly change the clause as below:The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:Number of projects:Marks5 Projects:11 Marks4 Projects: 8 Marks2 Projects : 5 MarksHowever, Bidders having less than 2 project experience are not eligible to bid.	Refer reply to query at S.No. 152
229	1	46	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC)orb) Surveillance command centre orc) ITMSord) Environmental Sensorse) PA system/ Passenger Information system/ ECBProjects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	There are number of elements which has to be integrated with ICCC. The current clause is asking for 1 component to be integrated with ICCC. Hence we request to you amend the clause as below.1. Video Management & Video Analytics2. RLVD (Red Light Violation Detection)3. ANPR (Automatic Number Plate Recognition)4. Intelligent Bus Transport5. Smart Lighting6. Environmental Sensors7. Solid Waste Management – Smart Bins8. Smart Pole - Wi-Fi9. Public Address System/VMD10. Emergency Call Box11. Emergency Response Systems12. SCADA for Water Management System13. Disaster Management14. ERP & e-Governance 10 or more integrations – 9 marksGreater than 8 less than 10 integrations – 7 marksGreater than 5 less than 8 integrations – 5 marksLess than 5 integrations – Not eligibleIf the projects implemented for any smart cities in india additional 2 marks	Refer reply to query at S.No. 152

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
230	1	46	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC) or b) Surveillance command centre or d) Environmental Sensors c) ITMS or d) Environmental Sensor) PA system/ Passenger Information system/ ECB Projects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	We would like to request you kindly modify the clause like below : The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC) or b) Surveillance command centre or d) Environmental Sensors c) ITMS or d) Environmental Sensor) PA system/ Passenger Information system/ ECB Projects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years: No. of successfully executed projects 2 or more=11 marks• No. of Successfully executed projects 1 = 7 Marks• Less than 1 Projects no marks	Refer reply to query at S.No. 152
231	1	46	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 7 years: each project should include any of the two components from below list-ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project-Video Management System with minimum 1000 Video Channels in each project-Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project-AI based Facial Recognition System, with minimum 25 channels in each project-Optical Fibre Communications/Sensors/ Switches-PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	We would like to request you kindly modify the clause like below : The Bidder (any member in case of consortium) shall have successfully executed projects in 7 years: each project should include any of the two components from below list-ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project-Wi-Fi/LAN/WAN-Video Management System with minimum 1000 Video Channels in each project-Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project-AI based Facial Recognition System, with minimum 25 channels in each project-Optical Fibre Communications/Sensors/ Switches-PA/ECB with minimum 25 end-points in each project. No. of successfully executed projects 5 or more=10 marks• No. of Successfully executed projects 4= 8Marks• No. of Successfully executed projects 3 = 6• Less than 3 Projects no marks	Refer reply to query at S.No. 152
232	1	46	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC) or b) Surveillance command centre or c) ITMS or d) Environmental Sensor) PA system/ Passenger Information system/ ECB Projects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	You are requested to please amend the marking structure as per below.Marks shall be 1 Project - 3Marks2 Project - 6Marks3 Projects -11 Marks	Refer reply to query at S.No. 152
233	1	46	3.7 Technical Marking Matrix	The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC) or b) Surveillance command centre or d) Environmental Sensors c) ITMS or d) Environmental Sensor) PA system/ Passenger Information system/ ECB Projects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years:• The marks shall be allotted 1 per project in Central / State / PSU with maximum limit of 11 marks. However, Bidders having less than 2 project experience are not eligible to bid.	We would like to request you kindly modify the clause like below : The bidder (Including Consortium) should have demonstrable expertise and experience in Integration of ICCC Platform with following smart features: -a) Command & Control Centre / Network Operations Centre (NOC) or b) Surveillance command centre or d) Environmental Sensors c) ITMS or d) Environmental Sensor) PA system/ Passenger Information system/ ECB Projects can be of one or more of the above-mentioned categories. Bidder have successfully executed projects in last 7 years: No. of successfully executed projects 2 or more=11 marks• No. of Successfully executed projects 1 = 7 Marks• Less than 1 Projects no marks	Refer reply to query at S.No. 152
234	1	46	3.7 Technical Marking Matrix	The Bidder (any member in case of consortium) shall have successfully executed projects in last 5 7 years: each project should include any of the two components from below list-ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project-Video Management System with minimum 1000 Video Channels in each project-Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project-AI based Facial Recognition System, with minimum 25 channels in each project-Optical Fibre Communications/Sensors/ Switches-PA/ECB with minimum 25 end-points in each projectThe marks shall be allotted 1 per project with maximum limit of 10 marks. However, Bidders having less than 3 project experience are not eligible to bid.	We would like to request you kindly modify the clause like below : The Bidder (any member in case of consortium) shall have successfully executed projects in 7 years: each project should include any of the two components from below list-ITMS (RLVD or SVD or ANPR or VMS and e-Challan or ITS) with minimum 200 ANPR Channels in each project-Wi-Fi/LAN/WAN-Video Management System with minimum 1000 Video Channels in each project-Artificial Intelligence based Video Analytics on minimum 50 AI VA Channels in each Project-AI based Facial Recognition System, with minimum 25 channels in each project-Optical Fibre Communications/Sensors/ Switches-PA/ECB with minimum 25 end-points in each project. No. of successfully executed projects 5 or more=10 marks• No. of Successfully executed projects 4= 8Marks• No. of Successfully executed projects 3 = 6• Less than 3 Projects no marks	Refer reply to query at S.No. 152
235	1	46	3.7 Technical Marking Matrix	Assessment to be based on a dedicated sectional note covering all requirements (in the Technical Proposal submitted by the bidder) including a presentation in CD.	We understand that the bidder has to submit the presentation in CD during POC or Presentation time and not along with the bid. Kindly confirm.	Refer reply to query at S.No. 152

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
236	1	46	3.7 Technical Marking Matrix	A. Project Manager: 2.5 marksb. Certification: PMP/ Prince Certification- 0.5 markB. DC/ DR- Cloud expert: 1.5 marksb. Certification: • Any professional certification that relates to cloud computing/ DC/ DR, preferably CCNA (DC), CCNP (DC), DCDC(BICSI), CBCI, CBCP, etc.- 0.5 markC. Command Center Design Expert: 1.5 marks• Any professional certification that relates to Enterprise Architectural solutions- 0.5 markD. Solution Architect: 1.5 marksb. Certification: TOGFA/MCSA/ITIL/LEAN- 0.5 marksE. Software Management Expert: 1 mark• Relevant certification in Software Development/ Management. Preferably- CAPM, CSM, etc. -0.5 markf. IT/ ICT Infrastructure Expert: 1 mark• Relevant certification in IT/ ICT Infrastructure framework, preferably ITIL, CGEIT, etc. -0.5 marksG. IT/ Cyber Security Expert: 1 markb. Certification: • Relevant certification in IT/ Diploma in Cyber Security domain, preferably CISM, CISSP, etc.- 0.5 marks	For wider participation, the certification requirement may be made optional at bidding stage.The certification requirement may be made mandatory for successful bidder before starting implementation.	Refer reply to query at S.No. 152
237	1	46	3.7 Technical Marking Matrix	A. Project Manager: 2.5 marksa. Educational Qualification:• BE / B. Tech / MCA (regular) with PGDM/ MBA/M. Tech = 0.5 markb. Certification: PMP/ Prince Certification- 0.5 markc. Work experience in the capacity of Project/Program Manager in ICT implementation Projects (with more than 10 years of relevant experience): 0.5 markd. Project/Program management Experience in ICT implementation Project of value > 100 Crores: 0.5 marke. Project/Program management Experience Smart City ICT implementation Project: 0.5 mark	Request you to kindly amend clause as below:A. Project Manager: 2.5 marksa. Educational Qualification:• BE / B. Tech / MCA (regular) with PGDM/ MBA/M. Tech /M.E. / equivalent = 0.5 markb. Certification: PMP/ Prince Certification- 0.5 markc. Work experience in the capacity of Project/Program Manager in ICT implementation Projects (with more than 10 years of relevant experience): 0.5 markd. Project/Program management Experience in ICT implementation Project of value > 100 Crores: 0.5 marke. Project/Program management Experience Smart City ICT implementation Project: 0.5 mark	Refer reply to query at S.No. 152
238	1	46	3.7 Technical Marking Matrix	A. Project Manager: 2.5 marks a. Educational Qualification: • BE / B. Tech / MCA (regular) with PGDM/ MBA/M. Tech = 0.5 markb. Certification: PMP/ Prince Certification- 0.5 mark	The work experience and educational qualification is generally considered as main criteria for selection of qualified resource. Considering it, authority is requested to change the clause as below:Request to modify as below.A. Project Manager: 2.5 marks a. Educational Qualification: • BE / B. Tech / MCA (regular) with PGDM/ MBA/M. Tech/Any Post Graduation = 1 markb. Nilc. Work experience in the capacity of Project/Program Manager in ICT implementation Projects (with more than 10 years of relevant experience): 0.5 markd. Project/Program management Experience in ICT implementation Project of value > 40 Crores: 0.5 marke. Project/Program management Experience Smart City ICT implementation Project: 0.5 mark	Refer reply to query at S.No. 152
239	1	47	3.7 Technical Marking Matrix	B. DC/ DR- Cloud expert: 1.5 marksa. Educational Qualification with more than 9 years of experience:• BE / B. Tech / MCA (regular)+ with MBA- 0.5 markb. Certification:• Any professional certification that relates to cloud computing/ DC/ DR, preferably CCNA (DC), CCNP (DC), DCDC(BICSI), CBCI, CBCP, etc.- 0.5 markc. Cloud implementation Experience in ICT implementation Project of value > Rs. 20 Crores – 0.5 mark	Request you to kindly amend clause as below:B. DC/ DR- Cloud expert: 1.5 marksa. Educational Qualification with more than 9 years of experience:• BE / B. Tech / MCA (regular)+ with / MBA- 0.5 markb. Certification:• Any professional certification that relates to cloud computing/ DC/ DR, preferably CCNA (DC), CCNP (DC), DCDC(BICSI), CBCI, CBCP, etc.- 0.5 markc. Cloud implementation Experience in ICT implementation Project of value > Rs. 20 Crores – 0.5 mark	Refer reply to query at S.No. 152
240	1	47	3.7 Technical Marking Matrix	B. DC/ DR- Cloud expert: 1.5 marksb. Certification: • Any professional certification that relates to cloud computing/ DC/ DR, preferably CCNA (DC), CCNP (DC), DCDC(BICSI), CBCI, CBCP, etc.- 0.5 mark	Request you to modify as following: B. DC/ DR- Cloud expert: 1.5 marksb. Certification: • Any professional certification that relates to cloud computing/ DC/ DR, preferably CCNA (DC), CCNP(DC), DCDC(BICSI), CBCI, CBCP, etc.- 0.5 mark	Refer reply to query at S.No. 152
241	1	47	3.7 Technical Marking Matrix	B. DC/ DR- Cloud expert: 1.5 marksa. Educational Qualification with more than 9 years of experience: • BE / B. Tech / MCA (regular) with MBA- 0.5 markb. Certification:• Any professional certification that relates to cloud computing/ DC/ DR, preferably CCNA (DC), CCNP (DC), DCDC(BICSI), CBCI, CBCP, etc.- 0.5 markc. Cloud implementation Experience in ICT implementation Project of value> Rs. 20 Crores – 0.5 mark	The work experience and educational qualification is generally considered as main criteria for selection of qualified resource. Considering it, authority is requested to change the clause as below:B. DC/ DR- Cloud expert: 1.5 marksa. Educational Qualification with more than 9 years of experience: • BE / B. Tech / MCA/Post Graduation - 1 markb. Certification: Deletedc. Cloud implementation Experience in ICT implementation Project of value> Rs. 20 Crores – 0.5 mark	Refer reply to query at S.No. 152
242	1	48	3.7 Technical Marking Matrix	D. Solution Architect: 1.5 marks a. Educational Qualification:• Bachelor's Degree in Engineering/MCA (regular)-0.5 markb. Certification: TOGFA/MCSA/ITIL/LEAN- 0.5 marksc. Work experience as IT/ICTsolution architect (with more than 6 years of relevant experience) of project more than 20 cr- 0.5 marks	The work experience and educational qualification is generally considered as main criteria for selection of qualified resource. Considering it, authority is requested to change the clause as below:D. Solution Architect: 1.5 marks a. Educational Qualification:• Bachelor's Degree in Engineering/MCA (regular)-1 markb. Certification: Deleted c. Work experience as IT/ICTsolution architect (with more than 6 years of relevant experience) of project more than 20 cr- 0.5 marks	Refer reply to query at S.No. 152
243	1	48	3.7 Technical Marking Matrix	C. Command Center Design Expert: 1.5 marksAny professional certification that relates to Enterprise Architectural solutions- 0.5 mark	Request you to modify as following: C. Command Center Design Expert: 1.5 marksAny professional certification that relates to Enterprise Architectural solutions- 0.5 mark	Refer reply to query at S.No. 152

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
244	1	48	3.7 Technical Marking Matrix	C. Command Center DesignExpert: 1.5 marka. Educational Qualification:• Bachelor's Degree in Engineering/ Enterprise Architect-0.5 markb. Certification :• Any professional certification that relates to Enterprise Architectural solutions- 0.5 markc. Work experience in designing of Command Center / Network Operating Centre Projects (with more than 9 years of relevant experience)- 0.5 mark	The work experience and educational qualification is generally considered as main criteria for selection of qualified resource. Considering it, authority is requested to change the clause as below:C. Command Center DesignExpert: 1.5 marka. Educational Qualification:• Bachelor's Degree in Engineering/ Enterprise Architect-1 markb. Certification : Deletedc. Work experience in designing of Command Center / Network Operating Centre Projects (with more than 9 years of relevant experience)- 0.5 mark	Refer reply to query at S.No. 152
245	1	49	3.7 Technical Marking Matrix	E. Software Management Expert: 1 markb. Certification: • Relevant certification in Software Development/ Management. Preferably- CAPM, CSM, etc.- 0.5 mark	Request you to modify as following: E. Software Management Expert: 1 markb. Certification: • Relevant certification in Software Development/ Management. Preferably- CAPM, CSM, etc.- 0.5 mark	Refer reply to query at S.No. 152
246	1	49	3.7 Technical Marking Matrix	E. Software Management Expert: 1 marka. Educational Qualification:• Bachelor's Degree in Engineering/MCA (regular) -0.5 markb. Certification:• Relevant certification in Software Development/ Management. Preferably- CAPM, CSM, etc.- 0.5 mark	The work experience and educational qualification is generally considered as main criteria for selection of qualified resource. Considering it, authority is requested to change the clause as below:E. Software Management Expert: 1 marka. Educational Qualification:• Bachelor's Degree in Engineering/MCA (regular) -0.5 markb. Certification: DeletedC. Work experience of 3 years - 0.5 marks	Refer reply to query at S.No. 152
247	1	50	3.7 Technical Marking Matrix	The OEM of ITMS & E-Challan system with Vaahan database of NIC to fulfill "One Nation, One Challan" requirement, in min 3 Smart city/Safe City/ITMS projects in India. ≥ 4 projects - 4 Marks 3 projects - 3 Marks Less than 3 projects: Not eligible to bid	Patna being prestigious project of Bihar, authorities should choose best in class OEMs for each solution. Hence, requesting you to please amend the clause as:"The OEM of ITMS & E-Challan system with Vaahan database of NIC to fulfill "One Nation, One Challan" requirement, in min 3 Smart city/Safe City/ITMS projects in India. ≥ 5 projects - 4 Marks 4 projects - 3 Marks Less than 3 projects: Not eligible to bid"	Refer reply to query at S.No. 152
248	1	50	3.7 Technical Marking Matrix	The OEM of ITMS & E-Challan system with Vaahan database of NIC to fulfill "One Nation, One Challan" requirement, in min 3 Smart city/Safe City/ITMS projects in India. ≥ 4 projects - 4 Marks3 projects - 3 Marks	The given criteria seems challenging and will be met only by very limited OEMs. For increased participation of qualified OEM, authority is requested to change the clause as below."The OEM with installation base of ANPR/RLVD/Echallan in min 3 Smart city/Safe City/ITMS projects in India/globally. ≥ 3 projects - 4 Marks 2 projects - 3 Marks Less than 2 projects: Not eligible to bid	Refer reply to query at S.No. 152
249	1	50	Resource/Manpower Deployment	G. IT/ Cyber Security Expert: 1 marka. Educational Qualification:• Bachelor's Degree in Engineering/MCA(regular) : 0.5 marksb. Certification:• Relevant certification in IT/ Diploma in Cyber Security domain, preferably CISM, CISSP, etc.- 0.5 marks	G. IT/ Cyber Security Expert: 1 marka. Educational Qualification:• Bachelor's Degree in Engineering/MCA(regular) : 0.5 marksb. Certification: DeletedC. Work experience 3 years - 0.5 marks	Refer reply to query at S.No. 152
250	1	50	3.7 Technical Marking Matrix	OEM with total deployments3 deployment = 3 Marks2 deployment = 2 Marks1 deployment = 1 Mark0 deployment = Not Eligible	The requirements under this clause are specific are inconsistent with Pre-Qualification criteria for ICCO OEMs as specified in Volume 1 Page no. 39 of this RFP. In PQ you are asking for 5 projects and for TQ only 3 projects are being asked for getting 3 marks. Please change the PQ/TQ criteria suitably in line with our suggestions / requests above (Sr. no. 3) so as to remove the ambiguity for larger participation by offering a level playing field for the various OEMs.	Refer reply to query at S.No. 152
251	1	50	Technical Marking Matrix: E. OEM Selection	Command Control Platform OEM with total deployments3 deployment = 3 Marks2 deployment = 2 Marks1 deployment = 1 Mark0 deployment = Not EligibleSelf-Certification from OEM with copy of purchase order/completion certificate	There are already 5 deployments asked in the PQ Criteria under section "3.5 Pre-Qualification Criteria" which will make the Technical marking contradictory. Hence, request you to please amend this clause as below:Command Control Platform OEM with total deployments8 deployment = 3 Marks7 deployment = 2 Marks6 deployment = 1 Mark5 or less deployment = Not EligibleSelf-Certification from OEM with copy of purchase order/completion certificate	Refer reply to query at S.No. 152
252	1	50	3.7 Technical Marking Matrix	3 ITMS (ANPR/RLVD/E-Challan system deploymentThe OEM of ITMS & E-Challan system with Vaahan database of NIC to fulfill "One Nation, One Challan" requirement, in min 3 Smart city/Safe City/ITMS projects in India. ≥ 4 projects - 4 Marks3 projects - 3 Marks Less than 3 projects: Not eligible to bid	We understand that the this Clause should be Applicable to the Bidder/MSI & not for the OEM. This Clause is restrictive & Biased towards a Single OEM & leading to Monopolistic Approach.It is our Humble Request to please make this Clause Applicable for Bidders or relax this Clause	Refer reply to query at S.No. 152
253	1	50	3.7 Technical Marking Matrix	. OEM Selection	Please include OEM's ATCS also	Refer reply to query at S.No. 152
254	1	51	3.7 Technical Marking Matrix	Proof of Concept on Integration part of ICCO, ITMS, Analytics, VMS, VA, FRS etc.	Please include ATCS in PoC. ATCS being a network based application, it is suggested that bidder shall demonstrate the results of ATCS( Speed, Density & Travel Time) by creating a simulated model of actual junctions(04 junctions).	Refer reply to query at S.No. 152

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
255	1	51	3.7 Technical Marking Matrix	Proof of Concept (PoC)Proof of Concept on Integration part of ICCCC, ITMS, Analytics, VMS, VA, FRS etc. (The marks shall be awarded based upon the approach, methodology, adherence to schedule, management during crisis, risk identification and uncertainties related to PoC, it's security aspects etc. of items described above)PoC for technical evaluation in hard copy / soft copy / Live Presentation from lead bidder. Bidder also need to provide PoC in presentation form in CD.	Since, this RFP is seeking Proof of Concept and having a weightage of 15 marks for Technical Evaluation, hence requesting you to add POC guidelines stated below for ICCCC application:1) Demonstrate an easy-to-use provisioning software/tool for administration of the ICCCC Platform. Following functionalities to be demonstrated:• Sensor Data Integration• Application Data Integration • Normalization of Data• Rule Configuration2) Demonstrate the ICCCC Application for multi-monitor displays (Alarm Management, Map Based Visualization, Video Based Visualization)3) Demonstrate the Incident Management Capability of ICCCC-Standard Operating Procedure. E.g. (Notify through SMS, Email and Dispatch through Field Responder Mobile app)4) ICCCC Platform must be able demonstrate creating SOP Workflows, including adding, editing, deleting. Workflow must support both manual and automated activities.5) GIS Map Support- Demonstrate the ability to Switch between different Maps on the ICCCC Map Screen. (E.g.: Google, OSM, etc.)6) Demonstrate at least 4 different use case integration to ICCCC Platform• Solid Waste Management• Citizen Grievance Management• One City One Mobile App• Environment Sensor• Parking Sensor• Panic Button/SOS• CCTV Surveillancec) It is mandatory to showcase Integration to Integrated Grievance Management System integration to ICCCC Platform7) Demonstrate KPI Dashboard with pre-built templates for various domains such as Surveillance, Environment, Traffic, Parking, Energy, Building, etc.	Refer reply to query at S.No. 152
256	1	59	Company profile	b) Positive net worth of the last three financial years as on 31.03.2021 (only for Lead bidder).	Request you to kindly amend clause as below:b) Positive net worth of the last three financial years as on 31.03.2020 (only for Lead bidder).	Positive net worth of the last three financial years (2017-18, 2018-19 and 2019-20) (only for Lead bidder).
257	1	72	7.5.3 Manpower Plan	7.5.3 Manpower Plan. Till Go-Live (Implementation)	Request you to please remove the Name column in Annexure 7.5.3 Manpower Plan as detailed list of Key Resource shall be submitted post award of contract.	As per RFP
258	1	80	Formats for Submission of the Commercial Bid	Formats for Submission of the Commercial Bid	Please provide the item wise Commercial Bid BOQ in excel format for submission purpose.	Excel sheet can be downloaded from E-Procurement portal after paying the bid document fee.
259	1	82	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers,AAA servers and A.I./Training Server)	Year 1 (in INR)Year 2 (in INR)Year 3 (in INR)Year 4 (in INR)Year 5 (in INR)	Please clarify whether Year 1 to Year 5 prices shall be inclusive of taxes.	As per RFP
260	1	85	Annexure 6 – Non-Disclosure Agreement	10. Annexure 6 – Non-Disclosure Agreement	Please clarify whether the NDA format has to be submitted along with the bid.	Yes, it is to be provided as per format provided in RFP at Annexure-6
261	1	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	This Memorandum of Understanding (MoU) entered into this day of [Date] [Month] 2018 at [Place] among Patna Smart City Limited (PSCL) (hereinafter referred to as """) and having office at [Address], India, as Party of the First Part and _____(hereinafter referred as """) and having office at [Address], as Party of the Second Part and (Hereinafter referred as """) and having office at [Address], as Party of the Third Part. The parties are individually referred to as Party and collectively as Parties.	Request you to kindly amend clause as below:This Memorandum of Understanding (MoU) entered into this day of [Date] [Month] 2018 at [Place] among Patna Smart City Limited (PSCL) _____ (hereinafter referred to as ""____") and having office at [Address], India, as Party of the First Part and _____(hereinafter referred as """) and having office at [Address], as Party of the Second Part and (Hereinafter referred as ""____") and having office at [Address], as Party of the Third Part. The parties are individually referred to as Party and collectively as Parties.	As per RFP
262	1	89	Annexure 7 – Consortium Agreement	c. The Lead partner is authorized to receive instructions and incur liabilities for and on behalf of all Parties.	We request you to kindly amend clause as follows:c. The Lead partner is authorized to receive instructions and incur liabilities for and on behalf of all Parties and liabilities shall be incurred by each member for their respective scope of work.	As per RFP
263	1	89	Annexure 7 – Consortium Agreement	The Lead Bidder shall be solely and severally responsible and bound towards the PSCL for the performance of the works in accordance with the terms and conditions of the BID document, and Contract. The consortium members, if any will support the lead bidder in successful implementation of the objectives.	The Lead Bidder shall be solely responsible and bound towards the PSCL for the performance of the works in accordance with the terms and conditions of the BID document, and Contract. The consortium members, if any will support the lead bidder in successful implementation of the objectives.	As per RFP
264	1	90	Annexure 8 - Format for Power of Attorney to Authorize Signatory	(Add in the case of a Consortium) Our firm is a Member or Lead bidder of the Consortium of , and _____	In case of consortium , Consortium agreement is also submitted along with bid. So we Request you to remove the lines from Power of Attorney .(Add in the case of a Consortium/JV)Our firm is a Member or Lead bidder of the Consortium of , and _____	As per RFP



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265	1	90	Annexure 8 - Format for Power of Attorney to Authorize Signatory	(Add in the case of a Consortium)Our firm is a Member or Lead bidder of the Consortium of , and _____Dated this the day of 2021	In case of consortium, we are already submitting consortium agreement along with Power of attorney for lead bidder of consortium, in the bid. So we request you to remove these lines from Power of Attorney to Authorised signatory format.(Add in the case of a Consortium)Our firm is a Member or Lead bidder of the Consortium of , and _____Dated this the day of 2021	As per RFP
266	2	2	DISCLAIMER	The assumptions, assessments, statements and information contained in the Bid documents, may not be complete, accurate, adequate or correct. Each Bidder must therefore conduct its own analysis of the information contained in this RFP or seek its own professional advice from appropriate sources.	Please confirm that any change in the provisions of the RFP / Contract shall be routed through change order and the Contractor will be compensated accordingly with additional cost and increase in time for project completion.	As per RFP
267	2	3	Earnest Money Deposit (EMD)	Rs. 2,15,87,000/- only (Refundable) in the form of unconditional Bank Guarantee, DD of Scheduled Bank; Post Office Term Deposit/ FD/NSC to be pledged in favor of Managing Director, Patna Smart City Ltd, payable at Patna.	Bidders registered with MSME and having valid registration certificate issued by NSIC/MSME are exempted for submission of EMD. However, all bidders including MSMES/Start-Ups must submit their financial solvency certificate issued not earlier than 6 months of last date of submission of Bid.	No exemption in EMD for any bidder is permitted
268	2	13	Annexures	Annexures-24- Standards for Meta Data & Data, Annexures-25- Standards for Mobile Governance, Annexures-26-Standards for GIGW, Annexures-27- Standards for Open APIs	There are no FRS provided for any eGov/ERP modules nor for web Portal for PSCL, only integration has to be done is mentioned in tender. So who will handle the current portal and update all the current related services on to it.	This will be sorted out with the successful bidder
269	2	14	1.5 Definitions/Acronyms	68. Node: L3 aggregation points consisting of L3 switches	Request you to modify as following: 68. Node: L3 aggregation points consisting of L3/ L2 switches	As per RFP
270	2	15	1.1. Project Objectives	Implementation and Integration with all existing and future services as identified by Patna Smart City limited(PSCL) in the city including but not limited to (with provision for future scalability): i. CCTV Surveillance System ii. Smart Lighting iii. ICT Enabled Solid Waste Management iv. Intelligent Transportation System v. E-Challan System vi. Public Bike Sharing vii. Smart Education viii. Smart Health Management System ix. e-Municipality x. Smart Road Network xi. eBuses Live Tracking and Monitoring System xii. eToilet Monitoring System xiii. Environment Management System xiv. ICT component of eLibrary System xv. ICT component of Smart Bus Stop System xvi. ICT component of Smart Parking System xvii. Any other upcoming solutions	a. Please provide the details of expected number and details of services against the following tracks with which the proposed solution is supposed to integrate with. b. Please let us know systems which are available today and which are futuristic in nature. c. Please let us know the readiness of the eMunicipality services and the details of the services with which the integration is expected. d. It is assumed that all existing systems will provide the necessary REST/SOAP APIs for integration. Please confirm.	As per RFP
271	2	18	2.1.2. Scope of RFP	Integration with existing ICT systems (If any) within PSCL ICT landscape	We assume that all the existing system are up and running and implemented on open standard protocol and platform. Also, please clarify/confirm that the required API/SDK and technical support will be provided from existing and future vendors for integration.	As per RFP
272	2	18	Scope of RFP	II. Integration with existing ICT systems (If any) within PSCL ICT landscape, not limited to: i. CCTV Surveillance System ii. Smart Lighting iii. ICT Enabled Solid Waste Management iv. Intelligent Transportation System v. E-Challan System vi. Public Bike Sharing vii. Smart Education viii. Smart Health Management System ix. e-Municipality x. Smart Road Network xi. eBuses Live Tracking and Monitoring System xii. eToilet Monitoring System xiii. Environment Management System xiv. ICT component of eLibrary System xv. ICT component of Smart Bus Stop System xvi. ICT component of Smart Parking System xvii. Any other upcoming solutions	Request to clarify, Which are the existing systems and Future proposed systems in the list and Does MSI need to consider all the existing & Future systems for Server Sizing & Integration services in the commercials Please add the II. Integration with existing and proposed ICT systems using SDK / APIs within PSCL ICT landscape,	As per RFP
273	2	18	Scope of RFP	II. Integration with existing ICT systems (If any) within PSCL ICT landscape, not limited to: i. CCTV Surveillance System ii. Smart Lighting iii. ICT Enabled Solid Waste Management iv. Intelligent Transportation System v. E-Challan System vi. Public Bike Sharing vii. Smart Education viii. Smart Health Management System ix. e-Municipality x. Smart Road Network xi. eBuses Live Tracking and Monitoring System xii. eToilet Monitoring System xiii. Environment Management System xiv. ICT component of eLibrary System xv. ICT component of Smart Bus Stop System xvi. ICT component of Smart Parking System xvii. Any other upcoming solutions	Request to clarify, Which are the existing systems and Future proposed systems in the list and Does MSI need to consider all the existing & Future systems for Server Sizing & Integration services in the commercials Please add the II. Integration with existing and proposed ICT systems using SDK / APIs within PSCL ICT landscape, not limited to:	As per RFP
274	2	18	Scope of RFP	II. Integration with existing ICT systems (If any) within PSCL ICT landscape, not limited to: • Smart Lighting • ICT Enabled Solid Waste Management • Intelligent Transportation System • e-Challan System • Public Bike Sharing .....	we assume that the integrations scope of ICCS will be with the current RFP Proposed systems and future systems integrations will be taken up when the system is deployed and future systems commercial is not to be included in this RFP Scope. Please confirm.	As per RFP

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275	2	19	2.1.4. Provisioning of City Wide Network backbone	Provisioning of City Wide Network backbone	Please specify the following: 1) Please specify internet requirement for DC need to be connected 2) Please specify internet requirement for DC-DR need to be connected 3) Please confirm any internet requirement for premises of Government Building need to be considered.	As per RFP
276	2	21	2.1.4. Provisioning of City Wide Network backbone	Logical Network Architecture - Digram	As per Figure 5: Design of Distribution and Access Network page Volume II, 226 design principal Core Network to be built on 100G Ring followed 50G ring and then 10G ring, however as per Logical Network Architecture - Digram core network ring on 40G followed by 1G . And Specification of the core devices asked for 8 *10G ports from day. Further As per page Volume II, 301. RFP asked with three tier architecture with Core, Distribution and Access layer where as page 21 only talk about two tier architecture. All these points are contradictory to each other. Hence requesting to clarify on what Design principal to follow to meeting the RFP guidelines.	As per RFP
277	2	21	2.1.4. Provisioning of City Wide Network backbone	Logical Network Architecture - Digram	Logical Network Architecture - Digram	As per RFP
278	2	23	2.2. Component Architecture of ICCC	The Data Centre layer will house centralized computing power required to store, process and analyze the data to decipher actionable information. This layer includes HCI infrastructure for running complete virtualized infrastructure and physical servers, storage, ancillary network equipment elements, security devices and corresponding management tools. Similar to the network layer, it will be scalable to cater to the increasing computing and storage needs in future.	The HCI infrastructure is being mentioned here but there are no Functional and technical requirements given in the RFP.	As per RFP
279	2	23	Component Architecture of ICCC: Security Layer:	iii. Identity and Access Management – including user authentication, authorization, SSL & Digital Signatures.	We understand that procurement of the DSC would be managed by department. Bidder is expected to only integrate with the DSC signatures which would be arranged by department. Please confirm on our understanding	As per RFP
280	2	24	2.2. Component Architecture of ICCC	The implementation vendor will have to develop a Command Centre at the site location identified by PSCL and web/ mobile based viewing tools for understanding the ambient city conditions.	Kindly elaborate this clause. As per our understanding MSI need to develop Command Centre Infrastructure along with IT and Non-IT infrastructure and proposed ICCC software platform only. Do we have to provide mobile application for the same? If Yes, please share the SOPs for the same.	As per RFP
281	2	28	Survey & Design Considerations for Technical Architecture & Project Plan	The expectation is that the system should sustain at least 10 years from GO-Live.	Please provide the growth percentage of CCC concurrent users for next 10years. So bidder can size the compute storage accordingly to meet the future requirements.	As per RFP
282	2	29	25. Transfer of Ownership	Forthwith upon expiry or earlier termination of the Contract and at any other time on demand by the Authority, SI shall deliver to Authority all Documents provided by or originating from the Authority and all Documents produced by or from or for SI in the course of performing the Services, unless otherwise directed in writing by the Authority at no additional cost. SI shall not, without the prior written consent of the Authority store, copy, distribute or retain any such Documents.	Forthwith upon expiry or earlier termination of this Contract and at any other time on demand by the Purchaser, Bidder shall deliver to the Purchaser all Documents provided by or originating from the Purchaser and all Documents produced by or for Bidder in the course of performing the Services, unless otherwise directed in writing by the Bidder at no additional cost.	As per RFP
283	2	30	3. Survey & Design Considerations for Technical Architecture & Project Plan	The authority would carry out the Security Audit of the entire system upon handover and also at regular intervals during O&M period.	Please provide detailed scope of the audits mentioned in this section, whether it is internal security audit or through any third party.	As per RFP
284	2	30	Survey & Design Considerations for Technical Architecture & Project Plan	Distributed, PKI,AAA based Authentication and Authorization - The solution shall support PKI based Authentication and Authorization, in accordance with IT Act 2000, using the Digital Certificates issued by the Certifying Authorities (CA). In particular, 3 factor authentications (login id & password, biometric and digital signature) shall be implemented by the SI for officials/employees involved in processing citizen services.	Please mention the quantity required for 3FA	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
285	2	30	Survey & Design Considerations for Technical Architecture & Project Plan	Distributed, PKI,AAA based Authentication and Authorization - The solution shall support PKI based Authentication and Authorization, in accordance with IT Act 2000, using the Digital Certificates issued by the Certifying Authorities (CA). In particular, 3 factor authentications (login id & password, biometric and digital signature) shall be implemented by the SI for officials/employees involved in processing citizen services.	Please mention the quantity required for 3FA. Request you to add 3FA in BOM and in price schedule for fair participation	As per RFP
286	2	30	3. Survey & Design Considerations for Technical Architecture & Project Plan	The automatic number plate recognition Software will be part of the supplied system, Success rate of ANPR will be taken as 85% or better for both day and night time on all standard license plates with straight English roman font .	ANPR accuracy is most critical for the whole system to perform properly and hence the desired accuracy shall be evaluated during the POC process. Hence we request you to amend the clause as: "The automatic number plate recognition Software will be part of the supplied system, Success rate of ANPR will be taken as 85% or better for both day and night time on all standard license plates with straight English roman font. Same should be successfully demonstrated during POC "	Performance certificates/satisfaction letters issued by client needs to be got issued in this regard for submission to PSCL.
287	2	31	The overarching requirement is the need to comply with ISO 27001 standards of security.	f) The overarching requirement is the need to comply with ISO 27001 standards of security.	Please confirm the MSI need not to take ISO 27001 Certification for Data Center for 5 years of Operation and Maintenance.	As per RFP
288	2	33	3. Survey & Design Considerations for Technical Architecture & Project Plan3	The data centre infrastructure shall be capable of serving at least 1000 concurrent users.	Please provide the tentative count of CCC concurrent userbase.	As per RFP
289	2	34	3. Survey & Design Considerations for Technical Architecture & Project Plan	SI shall undertake detail assessment for integration of the Smart Governance, Surveillance System and all other components with the Geographical Information System (GIS). SI is required to carry out the seamless integration to ensure ease of use of GIS in the Dashboards in Command Control Centers. If this requires field survey, it needs to be done by SI. If such a data is already available with city, it shall facilitate to provide the same. SI is to check the availability of such data and it's suitability for the project.SI is required to update GIS maps from time to time.	a. Is there any specific GIS datamodel available with PSCL? If yes then kindly share. b. Please let us know the scope of GIS survey which needs to be carried out by SI.	The GIS related information needed for bidding is enclosed as Annexure to Corrigendum-4
290	2	34	3. Survey & Design Considerations for Technical Architecture & Project Plan	SI shall undertake detail assessment for integration of the Smart Governance, Surveillance System and all other components with the Geographical Information System (GIS). SI is required to carry out the seamless integration to ensure ease of use of GIS in the Dashboards in Command Control Centers. If this requires field survey, it needs to be done by SI. If such a data is already available with city, it shall facilitate to provide the same. SI is to check the availability of such data and it's suitability for the project.SI is required to update GIS maps from time to time.	Kindly confirm on Indicative percentage of field survey needs to be done by MSI and at what interval field survey needs to done.	Refer reply to query at S.No. 289
291	2	34	Survey & Design Considerations for Technical Architecture & Project Plan	b) GIS Integration- SI shall undertake detail assessment for integration of the Smart Governance, Surveillance System and all other components with the Geographical Information System (GIS). SI is required to carry out the seamless integration to ensure ease of use of GIS in the Dashboards in Command Control Centers. If this requires field survey, it needs to be done by SI. If such a data is already available with city, it shall facilitate to provide the same. SI is to check the availability of such data and it's suitability for the project.SI is required to update GIS maps from time to time.	GIS data creation is part of the MSI scope or will be provide by PSCL. Please clarify	Refer reply to query at S.No. 289
292	2	34	Survey & Design Considerations for Technical Architecture & Project Plan	b) GIS Integration- SI shall undertake detail assessment for integration of the Smart Governance, Surveillance System and all other components with the Geographical Information System (GIS). SI is required to carry out the seamless integration to ensure ease of use of GIS in the Dashboards in Command Control Centers. If this requires field survey, it needs to be done by SI. If such a data is already available with city, it shall facilitate to provide the same. SI is to check the availability of such data and it's suitability for the project.SI is required to update GIS maps from time to time.	It is assumed as updating the smart elements on the map will be in MSI scope. MSI will not be responsible for any other updation in the map. Pls confirm.	Refer reply to query at S.No. 289

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
293	2	34	3.6. Junction Box, Poles and Cantilever	a) Junction Box needs to be appropriately sized in-order to accommodate the systems envisaged at the Junctions, and SI should design the Junction box for 1.5 times the actual size required for utilization under the ITMS project. Additional 50% space in the Junction Box shall be utilized by PSCL to accommodate any future requirements under other projects.	Please suggest about dimension & space required in day 1 to arrive at proper dimensioning along with 50% additional space.	This is part of bid strategy and the bidders need to use their own judgement.
294	2	35	2.2. Component Architecture of ICCC	The user of citizen services should be given a choice to interact with the system in local language in addition to English. The application should have provision for uniform user experience across the multi lingual functionality covering following aspects: i. Front end web portal in English and local language ii. e-forms (Labels & Data entry in local languages). Data entry should be provided preferably using the Enhanced Inscript Standard (based on Unicode version 6.0 or later) keyboard layout with option for floating keyboard. iii. Storage of entered data in local language using UNICODE (version 6.0 or later) encoding standard. iv. Retrieval & display in local language across all user interfaces, forms and reports with all browsers compliant with Unicode version 6.0 and above. v. Facility for bilingual printing (English and the local language).	The clause in Smart City Patna RFP is silent about the deployment of language localisation solution. As per our understanding the same is on-premise. Kindly correct our understanding if otherwise.	The local language here referred to is Hindi.
295	2	35	2.2. Component Architecture of ICCC	The user of citizen services should be given a choice to interact with the system in local language in addition to English. The application should have provision for uniform user experience across the multi lingual functionality covering following aspects: i. Front end web portal in English and local language ii. e-forms (Labels & Data entry in local languages). Data entry should be provided preferably using the Enhanced Inscript Standard (based on Unicode version 6.0 or later) keyboard layout with option for floating keyboard. iii. Storage of entered data in local language using UNICODE (version 6.0 or later) encoding standard. iv. Retrieval & display in local language across all user interfaces, forms and reports with all browsers compliant with Unicode version 6.0 and above. v. Facility for bilingual printing (English and the local language).	The localisation solution should have an ability to translate data with an accuracy of more than 90% for all the asked languages as per the RFP for names, address, generic fields without any custom development/customisation.	Your understanding is alright.
296	2	35	2.2. Component Architecture of ICCC	The user of citizen services should be given a choice to interact with the system in local language in addition to English. The application should have provision for uniform user experience across the multi lingual functionality covering following aspects: i. Front end web portal in English and local language ii. e-forms (Labels & Data entry in local languages). Data entry should be provided preferably using the Enhanced Inscript Standard (based on Unicode version 6.0 or later) keyboard layout with option for floating keyboard. iii. Storage of entered data in local language using UNICODE (version 6.0 or later) encoding standard. iv. Retrieval & display in local language across all user interfaces, forms and reports with all browsers compliant with Unicode version 6.0 and above. v. Facility for bilingual printing (English and the local language).	We suggest that OEM for language localisation should understand the subtle nuances and complexities involved in Indian language and hence suggest to include following: "The proposed OEM for language localisation should be an established Indian Origin Company and should provide support and manage Static as well as Dynamic data in 11 major Indian languages. They should also possess Voice support (STT & TTS), in case required further in project. The proposed OEM should have R & D centre in India since last more than 5 years."	As per RFP
297	2	35	2.2. Component Architecture of ICCC	The user of citizen services should be given a choice to interact with the system in local language in addition to English. The application should have provision for uniform user experience across the multi lingual functionality covering following aspects: i. Front end web portal in English and local language ii. e-forms (Labels & Data entry in local languages). Data entry should be provided preferably using the Enhanced Inscript Standard (based on Unicode version 6.0 or later) keyboard layout with option for floating keyboard. iii. Storage of entered data in local language using UNICODE (version 6.0 or later) encoding standard. iv. Retrieval & display in local language across all user interfaces, forms and reports with all browsers compliant with Unicode version 6.0 and above. v. Facility for bilingual printing (English and the local language).	With reference to local language we understand citizen services should be made available in all the languages as mentioned in Schedule 8 of Indian Constitution which include Hindi, Maithili, Urdu and Nepali in addition to English. Please correct our understanding if otherwise.	Yes, your understanding is correct

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298	2	36	3.2. Existing Traffic Signal System	The unused infrastructure of existing traffic signal systems including the aspects, controllers etc. will be dismantled and replaced with the new systems wherever required, which are proposed and required under the scope of the ITMS. The dismantled infrastructure shall be delivered at the PSCL designated location without damage at no extra cost.	As per the clause mentioned here in RFP, dismantling of existing traffic infrastructure and their shifting to designated ware house location should be done at no extra cost. In the RFP, details of the ATCS junctions to be deployed is not available. Hence you are requested to please provide the details of such existing junctions. Also as this activity involves a lot of expenditure in the form of machinery, manpower and transportation while dismantling the items and their shifting to some designated ware house, you are requested to add this whole activity as a separate line item in the ATCS Bill of Material.	The cost of dismantling and shifting to designated warehouse will not be borne by PSCL and while bidding this aspect has to be kept in mind by the bidder.
299	2	36	3.2. Existing Traffic Signal System	The unused infrastructure of existing traffic signal systems including the aspects, controllers etc. will be dismantled and replaced with the new systems wherever required, which are proposed and required under the scope of the ITMS.	Please clarify the following: 1) We understand that successful bidder can use existing infrastructure in this project, wherever feasible. 2) Whether The cost of dismantling will be borne by PSCL or successful bidder. If in case such cost is in Bidder's account, kindly specify the existing infrastructure details for dismantling for estimation purpose 3) Ownership of dismantled material will be with PSCL.	Refer reply to query at S.No. 298
300	2	36	3.2. Existing Traffic Signal System	The unused infrastructure of existing traffic signal systems including the aspects, controllers etc. will be dismantled and replaced with the new systems wherever required, which are proposed and required under the scope of the ITMS.	Please provide number of existing junctions that require dismantling	This is to be assessed by the bidder themselves.
301	2	37	3.4. Electrical Works and Power Supply	MSI shall be responsible to submit the electricity bill including connection charge, meter charge, recurring charges etc. to the electricity board directly. MSI shall have to submit the challan of bill submission to PSCL will reimburse the amount submitted to MSI after verification in next billing cycle	Reimburse of electricity bill (if any ) during execution shall be paid by PSCL .	As per RFP
302	2	37	Lightning-Proof Measures: Earthing System	Earthing System	As earthing systems are essential for this project , so request you to consider separate line item for Earthing for betterment of project.	This aspect has to be kept in mind by the bidder while bidding and this will be the part of its bid strategy.
303	2	38	3.6. Junction Box, Poles and Cantilever	Junction Box needs to be appropriately sized in-order to accommodate the systems envisaged at the Junctions, and SI should design the Junction box for 1.5 times the actual size required for utilization under the ITMS project	We understand that only ITMS junction box will be 1.5 times of actual size required for utilization. For the Field junction box for surveillance, Junction box size will be as per the actual size required for utilization. Please confirm.	Refer reply to query at S.No. 293
304	2	40	3.10. GIS Mapping	"The GIS solutions shall also be responsible for appropriate geo referencing & geo tagging on the map covering all relevant assets like Surveillance Camera , Wi-Fi Hotspots, bin locations, street poles, Environmental sensor , Lighting etc." GIS Maps Features..... (continue as per rfp) • Health services (Hospitals, Blood Banks, and Diagnostics center, 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. • Transportation (bus stops/Terminus, parking areas, petrol bunks, • metro stations, seaports airports, Railway Stations etc.) • Recreation facilities (Restaurants, theatres auditoriums etc.) • Other utilities such as travel and tourism facilities, religious places, burial grounds, solid waste locations etc. • Local landmarks with locally called names. "Maps and layers will be provided by PSCL."	As per RFP page no. 68 it is mention that department will provide the Maps and layers. But in another place page no. 40 it is also mention that SI would be responsible for georeferencing creation of GIS map feature as listed in RFP ( Page no.40-41) So Please clarify base map would be provided by PSCL or to be in the scope of bidder. If it is in the scope of bidder ,We request to clarify below points. 1. Total AOI( Area of Interest) for the Base map ? 2. As best practice in various smart cities, Base map as per city requirement is created using latest HRSI ( High Resolution Satellite Image). Will the same should be followed for Base map here? If so what should be the resolution of satellite Image to be procured? Pl confirm. 3. What is the scale of the base map?. If 0.3M Resolution HRSI( This is the best Resolution available as on date)is used , Best possible scale possible is 1:2000. Pl confirm.	Refer reply to query at S.No. 289
305	2	40	GIS Mapping	GIS city map which shall be a common platform across all the solutions including City Wi-Fi, City Surveillance, Smart Lighting, solid waste management, Environmental sensor etc. across City/ Region of Interest. The GIS solutions shall also be responsible for appropriate geo referencing & geo tagging on the map covering all relevant assets like Surveillance Camera , Wi-Fi Hotspots, bin locations, street poles, Environmental sensor , Lighting etc.	Asset GIS data like Surveillance Camera , Wi-Fi Hotspots, bin locations, street poles, Environmental sensor , Lighting etc. will be provided by PSCL. Is our understanding correct ?	Refer reply to query at S.No. 289
306	2	40	GIS Mapping	b) i) Road Network, ii) Administrative boundaries iii) Building footprints and names iv) Points of Interest	Road Network, Administrative boundaries, Building footprints and names, Points of Interest along with attributes will be provided by PSCL. Is our understanding correct ?	Refer reply to query at S.No. 289
307	2	40	GIS Mapping	GIS Mapping	We understand that PSCL will supply GIS base map of 1:1000 scale having road, admin boundary layers, Building Footprints, POI etc mentioned in RFP and bidder doesn't need to do survey for these base layers. Please confirm	Refer reply to query at S.No. 289
308	2	40	3.10. GIS Mapping	GIS Mapping. GIS maps shall be comprehensive and detailed up to Complete Road Network, Building Foot Prints and Land use level. Solution shall ensure that the GIS Map provides complete Spatial and Attribute Information	Pls confirm, if all the data at required scale are available from PSCL. If survey need to be done by SI, then please provide the quantities ( km length, total no of buildings for which footprints need to be collected, procedure and accuracy required of that etc	Refer reply to query at S.No. 289



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309	2	40	3.10. GIS Mapping	v. All data procured shall be imported into a central database.	Basemap supply is in PSCL scope. It is understood as PSCL will procure and provide the data to MSI.	Refer reply to query at S.No. 289
310	2	40	3.9. Integrated City Operation Platform	The system shall support Android, IOS and Windows Mobile platform,	Windows Mobile platform has sunset. Request to remove the clause.	Accepted. Refer <b>Corrigendum-4</b>
311	2	42	4.1. Expectations from MSI/SI	t) All the software licenses that the SI proposes shall be perpetual software licenses along with maintenance, upgrades and updates for the currency of the contract.	Authority shall use the software licenses for this project only hence we request to modify the clause as under: "All the software licenses that SI proposes should be perpetual software licenses. The software licenses shall not be restricted based on location	As per RFP
312	2	42	4.1. Expectations from MSI/SI	t) All the software licenses that the SI proposes shall be perpetual software licenses along with maintenance, upgrades and updates for the currency of the contract. The software licenses shall not be restricted based on location and Authority shall have the flexibility to use the software licenses for other requirements if required.	Please clarify whether the SI shall not propose any open source freeware software/community edition as a part of any bundle proposed inside ICC or any other software. (as any such underlying freeware/community-edition may be a severe security risk).	As per RFP
313	2	42	4.1. Expectations from MSI/SI	SI shall provide the bandwidth required as standby arrangement for operationalizing each smart city critical locations initiative if the time extends due to any unforeseen reason and SI could not execute the fibre project within the time decided in the contract/agreement. The Authority's own fiber is laid by the SI is the part of the scope of work of this RFP. The bandwidth requirement shall be analyzed and procured by the SI at its own cost / risk	We request you to delete this clause. Temporary connectivity to field locations will attract last mile connectivity charges by ISP. Further, any delay from authority/third party approval in own fiber implementation will escalate bandwidth cost to MSI.	As per RFP
314	2	43	4.1. Expectations from MSI/SI	Although, PSCL will facilitate to provide all Government approvals like, for Pollution Clearance, Fire Audit & Clearance, Right of Way, etc., but SI has to bear the cost/fees for the same (if any).	Please confirm that cost of Right of way, diesel and Road instatement for Fiber work will be borne with PSCL.	As per RFP
315	2	44	Other Expectation and Consideration from MSI: Expectations from MSI/SI	Every component installed in the field will have Patna Smart City Logo Printed	We request you to please clarify whether all component means only major components such as junction Box, poles or the cameras, cables, traffic signal aspects etc also needs to be have Patna Smart City Printed Logo. This will help us to estimate the quantity of Logo and take care of commercials while providing our offer.	Only on major/visible components.
316	2	48	4.10. Go-Live Preparedness and Go-Live	SI shall ensure that all the data migration is done from existing systems. (Storage Planning)	We request you to kindly share details of existing system so that we can calculate the storage requirement and hence prepare the best techno commercial proposal while providing our offer.	The bidder is supposed to make its own assessment for bidding.
317	2	48	4.8. Integration Phase (Existing Datasets & Other Applications)	4.8. Integration Phase (Existing Datasets & Other Applications)	Please confirm the following: Availability of RESTFUL API's for all the systems required for Integration shall be provided by PSCL. In case, DB integration is required the API for the same needs to be developed and shared by the PSCL to SI.	As per RFP
318	2	48	4.8. Integration Phase (Existing Datasets & Other Applications)	4.8. Integration Phase (Existing Datasets & Other Applications)	Please confirm the following: Availability of RESTFUL API's for all the systems required for Integration shall be provided by PSCL. In case, DB integration is required the API, the same needs to be developed and shared by the PSCL to SI.	As per RFP
319	2	48	4.9. Pilot Deployment	Pilot Deployment: MSI shall conduct Pilot deployment and testing for meeting PSCL's business requirements before rolling out the complete system. The pilot will be run for four weeks to study any issues arising out of the implementation	Please specify the Pilot deployment in the "Project Implementation Schedule, Deliverables and Payment Terms" under RFP Clause 9 ( Vol II, Pdf Pg 311).	The Pilot Deployment and testing will be treated as a PoC which is to be conducted by the successful bidder and for which no payment shall be made. Other understanding can be derived from the RFP.
320	2	48	4.9. Pilot Deployment	SI shall conduct Pilot deployment and testing for meeting PSCL's business requirements before rolling out the complete system. The pilot will be run for four weeks to study any issues arising out of the implementation. MSI shall also review health, usage and performance of the system till it is stabilized during pilot deployment. Based on PSCL's feedback for incorporating changes as required and appropriate, MSI shall train staff involved in the Pilot implementation	There is no clarity about Pilot Deployment and testing with request to size and scale of the pilot deployment. We request authorities to provide clarity about Pilot Deployment, period for pilot deployment and component with BoQ / Size and scale of this deployment and testing.	Refer reply to query at S.No. 319

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321	2	48	Pilot Deployment	i. MSI shall conduct Pilot deployment and testing for meeting PSCL's business requirements before rolling out the complete system. The pilot will be run for four weeks to study any issues arising out of the implementation. MSI shall also review health, usage and performance of the system till it is stabilized during pilot deployment. Based on PSCL's feedback for incorporating changes as required and appropriate, MSI shall train staff involved in the Pilot implementation. ii. Pilot shall be demonstrated to the PSCL's representatives. If for any reason the Pilot is found to be incomplete, these will be communicated to the MSI in writing on the lapses that need to be made good. A one-time extension will be provided to the MSI for making good on the lapses pointed out before offering the system to Client for review. Failure to successfully demonstrate the Pilot may lead to termination of the contract with no liability to Client.	As POC is already been conducted during bid evaluation, we suggest this requirement of pilot deployment phase be removed from RFP scope.	Refer reply to query at S.No. 319
322	2	49	4.11. Handholding and Training	Handholding and Training	Please clarify the following: 1) Functional Training, Administrative Training, Senior Management Training will be given only once during handholding period. 2) Please specify the frequency of Post-Implementation Training e.g. annually or semi-annually. 3) Please let us know, Nos. of expected trainee and manhours of training under each category. 4) Cost of training venue, travel expenses and boarding & Lodging will be borne to PSCL.	As per RFP
323	2	56	4.12.4. Maintenance of ICT Infrastructure at DC and ICC	System Administration – iii) SI shall be responsible for operating system administration, including but not limited to management of users, processes, preventive maintenance and management of upgrades including updates, upgrades and patches to ensure that the system is properly updated.	Kindly confirm if the continuous availability of security patches, updates and upgrades to be ensured from OS OEM for the entire duration of the contract?	Yes, your understanding is correct
324	2	56	4.12.4. Maintenance of ICT Infrastructure at DC and ICC	System Administration - MSI shall be responsible for operating system administration, including but not limited to management of users, processes, preventive maintenance and management of upgrades including updates, upgrades and patches to ensure that the system is properly updated.	Kindly confirm if the proposed Server Operating System for all servers shall be Common Criteria EAL4+ certified as security shall be an important aspect.	As per RFP
325	2	59	4.12.4. Maintenance of ICT Infrastructure at DC and ICC	Performing patch management using software distribution tool for all security applications including content management system, antivirus and VPN	The requirement is to have a software distribution solution, request you to provide the technical specification and add it in BOQ please	As per RFP
326	2	63	4.14. Testing and Acceptance Criteria	Security testing to be carried out in the exact same environment/architecture that would be setup for production	Does security includes Vulnerability Assessment, Penetration and Application testing. If yes then would request you to define periodicity of such testing please	As per RFP
327	2	66	5.1. Integrated Command Control & Communication Centre (ICCC)	It is envisaged that the city will implement multiple Smart City use cases over a period of time. The potential example Smart City use cases are- a) Smart Parking b) Smart Traffic Management c) Public Safety and Safe City Operations d) Connected Public Transport e) Environmental monitoring f) Smart Waste Management	Does the MSI need to consider all the listed systems for Server Sizing & Integration services in the commercials. As these are going to come from period of time	As per RFP
328	2	66	5.1.1. Functional & Technical Requirements for ICC Platform	b. Document management	Request to modify the clause as below: Document Management/Content Management system. Justification: Request to please allow us to provide content management or equivalent instead of document management system	As per RFP

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329	2	66	5.1. Integrated Command Control & Communication Centre (ICCC)	5.1. Integrated Command Control & Communication Centre (ICCC)	The features mentioned under this section focuses purely on safe city use cases and does not play a prominent role in command & control centre for smart city. We are completely complied to the functionalities mentioned under this section. However, as per the ICCC Maturity Assessment Framework published by MoHUA, the features mentioned under this section is not a part of the standard COTS product feature of ICCC. The features mentioned here seems to have been taken from Delhi Safe City Project. We are aware of 3 Smart City Projects in Bihar which are completely aligned with the ICCC Framework published by MoHUA, 1 is "Bihar Sharif" which is currently being executed by us & the other 2 are "Bhagalpur & Muzaffarpur Smart City" which are currently under RFP stage. Hence, request you to please add the ICCC features mentioned in Annexure 1. It has features of the Smart City Project aligned with ICCC Framework published by MoHUA which includes IoT, AI, Machine Learning, Data Analytics, Big Data, etc.	As per RFP
330	2	66	5.1.1. Functional & Technical Requirements for ICCC Platform	Note : Maps and layers will be provided by PSCL. Enterprise GIS for Web GIS with Geo Analytics (Only for adding layers) is envisaged as the current scope of this RFP.	Please Confirm, if SI need to quote for survey , map preparation and periodical data update? If yes, please provide the basis of the same; Please clarify what is the scope for Geoanalytics requirement in GIS.	Refer reply to query at S.No. 289
331	2	66	Detailed Scope of Work with Specifications : Functional & Technical Requirements for ICCC Platform	Enterprise GIS for Web GIS with Geo Analytics	Detailed Scope of work with specification is missing for "Enterprise GIS for Web GIS with Geo Analytics". Please provide Detailed scope, along with technical and functional requirement for Enterprise GIS with GeoAnalytics for Patna smart City	Refer reply to query at S.No. 289
332	2	66	5.1.1. Functional & Technical Requirements for ICCC Platform	The platform must have native failover with no dependency on external virtualized or clustered applications. The failover must support both local & over geographical redundancy for all the modules outlined under the UC & C platform.	Every OEM has a different solution approach to provide the scalability, high availability using readily available options. To have more competitive proposal, request you to accept the modification, "The platform must have native failover or High Availability support to meet SLA with no dependency on external virtualized or clustered applications. The failover must support both local & over geographical redundancy for all the modules outlined under the UC & C platform." Please accept the change.	As per RFP
333	2	66	5.1.1. Functional & Technical Requirements for ICCC Platform	The platform must have native failover with no dependency on external virtualized or clustered applications. The failover must support both local & over geographical redundancy for all the modules outlined under the UC & C platform.	Request to remove the clause Justification: Support for Native and off-the-shelf failover for hardware is usually not supported by UC&C. As UC&C platform is not responsible to manage other hardware and external applications failover mechanism	As per RFP
334	2	66	5.1.1. Functional & Technical Requirements for ICCC Platform		Enterprise GIS for Web GIS with Geo Analytics	Refer reply to query at S.No. 289
335	2	66	5.1.1. Functional & Technical Requirements for ICCC Platform	The UC&C platform must be a true unified management experience for critical infrastructure, simplifying control room operation and system integration, minimizing total cost of ownership, and increasing operational efficiency critical to rapid decision-making.	Request to add the statement , the UC&C platform. should have the inbuilt integration studio with drag and drop and no code, low code capabilities for connector, adapter, sop building and with an in-built complex event processing engine. Platform must have the ability to cache the data to provide enhanced performance for integration and navigation for users . Benefits/Justification: It helps city for long term vision of Platform capabilities & meet future technologies. Also helps operator to Integrate APIs easily and future onboarding new systems to integrate faster and seamlessly on their own as no much coding is required, due to its drag & drop nature	As per RFP
336	2	66	5.1.1. Functional & Technical Requirements for ICCC Platform	The UC&C platform must be a true unified management experience for critical infrastructure, simplifying control room operation and system integration, minimizing total cost of ownership, and increasing operational efficiency critical to rapid decision-making.	Request to add the statement , the UC&C platform. should have the inbuilt integration studio with drag and drop and no code, low code capabilities for connector, adapter, sop building and with an in-built complex event processing engine. Platform must have the ability to cache the data to provide enhanced performance for integration and navigation for users	As per RFP

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337	2	66	5.1.1.1. Functional & Technical Requirements for ICCC Platform		Request to amend the standard ICCC Integration capabilities related specification as follows: The Platform shall also be able to integrate, connect, and correlate information from CCTV, IoT Platform and other IT & non-IT systems, providing rule based information drawn from various sub-systems for an alert. • Platform should support on the fly deployment of Sensors. Platform shall have the ability to add / remove sensors including new vendor types without a need for shutdown. • Platform should support the development of Integrations for legacy SCADA systems such as OPC UA and/or serial communication, messaging protocols such as MQTT, Stomp, AMQP etc. This is in order to seamlessly integrate the existing legacy systems and new systems coming in to the Smart City. The integration to the external legacy sub-systems current or futuristic should be on real-time basis and not on offline basis.	As per RFP
338	2	67	5.1.1.1. Functional & Technical Requirements for ICCC Platform	The ICCC software should have biometric authentication facility for operators using the software.	Request to modify the clause as below: The ICCC software should have two-factor authentication facility for operators using the software. Justification: Biometric authentication for ICCC software platform is not usual requirement. Two-factor authentication is reasonable.	As per RFP
339	2	67	5.1.1.1. Functional & Technical Requirements for ICCC Platform	The Application shall protect against potential database server failure and continue to run through standard off-the-shelf solutions.	As database is COTS product, separate component from various market leaders and have own configuration to support High Availability and ICCC Application will not have control to protect database server failure. Hence request you to remove this from ICCC Application specification.	Please refer to the <b>Corrigendum-4</b> regarding deletion of this condition.
340	2	67	5.1.1.1. Functional & Technical Requirements for ICCC Platform	The Application shall protect against potential database server failure and continue to run through standard off-the-shelf solutions.	Request to modify the clause as below: The Application shall protect against potential database server failure and continue to run. Justification: In case of failure, ICCC platform cannot run with any other standard off-the-shelf solutions	Refer reply to query at S.No. 339
341	2	67	5.1.1.1. Functional & Technical Requirements for ICCC Platform	Allows simple and accessible Integration with other independent control systems through a single Unification point with consistent user interface and better operational efficiency.	Request to add the statement , " Platform should be able to integrate devices using their APIs in to this platform by writing appropriate integration adaptor. Justification : Will meet the new modern technology compatability for new systems integrations	As per RFP
342	2	67	5.1.1.1. Functional & Technical Requirements for ICCC Platform	Allows simple and accessible Integration with other independent control systems through a single Unification point with consistent user interface and better operational efficiency.	Request to add the statement , ii. Platform should be able to integrate devices using their APIs in to this platform by writing appropriate integration adaptor.	As per RFP
343	2	67	5.1.1.1. Functional & Technical Requirements for ICCC Platform	The UC&C Application shall support native and off-the-shelf failover options without any dependency on external application for both Hardware and Application level fail over.	Every OEM has a different solution approach to provide the scalability, high availability using readily available options. To have more competitive proposal, request you to accept the modification, "The UC&C Application shall support native failover or High Availability support to meet SLA. and off-the-shelf failover options without any dependency on external application for both Hardware and Application level fail over.." Please accept the change.	As per RFP
344	2	67	5.1.1.1. Functional & Technical Requirements for ICCC Platform	The UC&C platform should provide a cross-agency collaboration tool to support instant communication between various user groups and authorities.	We understand that the collaboration tools have respective SDK / APIs for integration with ICCC, Please confirm if there is an existing SMS gateway / Email gateway with the city, which can be leveraged and have webservices (API) for integration?	As per RFP
345	2	68	Functional & Technical Requirements for ICCC Platform	Drag and drop entities from the UC&C to the map to center their location.	Kindly list out the entities.	The list include Cameras, Sensors, Field Locations, Field Devices, Buildings, locations and other geo tagged entities, to name a few for your understanding.
346	2	68	5.1.1.1. Functional & Technical Requirements for ICCC Platform	Native Map module (Both GIS and Offline Maps): Note : Maps and layers will be provided by PSCL. Enterprise GIS for Web GIS with Geo Analytics (Only for adding layers) is envisaged as the current scope of this RFP.	As per RFP scope, there is Enterprise GIS Server considered which is expected to have high availability design and here there is no need of Offline Maps requirement in Mobile App. Please accept the removal of 'Offline Map'.	Refer reply to query at S.No. 289
347	2	68	Functional & Technical Requirements for ICCC Platform	C- Native Map module (Both GIS and Offline Maps): Note : Maps and layers will be provided by PSCL.	It is understood as PSCL would supply the Base map for the project scope.	Refer reply to query at S.No. 289
348	2	69	5.1.1.1. Functional & Technical Requirements for ICCC Platform	Provide the ability to display live and recorded video within the same video tile using picture-in-picture (PiP) mode.	It seems OEM specific functionality. As per user requirement, operator should understand current situation (through live video) and incident time situation (through pre-post recorded video). Hence request you to modify clause to "Provide the ability to display live and recorded video within the same video tile using picture-in-picture (PiP) mode or display live and recorded video in different video tile side by."	The same video tile using different videos tiles / picture-in-picture (PiP) mode using the same viewing matrix is acceptable and there is no need of any modification in the clause.

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349	2	70	5.1.1. Functional & Technical Requirements for ICCC Platform	Incident management (IM) module:	Incident management = This is part of NMS & Helpdesk system. This is repeating in ICCC module which will increase unnecessary cost. Please remove this from here and add into NMS only. EMS & Helpdesk vendor will integrate with ICCC	As per RFP
350	2	70	5.1.1. Functional & Technical Requirements for ICCC Platform	The IM MODULE shall offer the following native operational tools: a. Incident management b. Document management	1. We assume that ICCC Application shall provide interface to upload/download (if already attached) document against incident/alert or SOP activity. Please confirm. 2. If above is not requirement, Please elaborate on 'Document Management'.	The IM module which includes details of document management as well is provided as Annexure to <b>Corrigendum-4</b>
351	2	71	5.1.1. Functional & Technical Requirements for ICCC Platform	The Incident management shall provide management of incident ownership. It shall be possible to explicitly request or release the ownership of an incident. Ownership of an incident shall be provided immediately to an operator who starts working on an incident.	Request to modify the clause as below: The Incident management shall provide management of incident ownership. It shall be possible to explicitly assign or dismiss an incident. Ownership of an incident shall be provided immediately to an operator who starts working on an incident. Justification: Assigning or dismissing an incident is more advanced feature than request or release. It helps to automate the workflow and keeping on control at UC&C platform.	Refer reply to query at S.No. 350
352	2	71	5.1.1. Functional & Technical Requirements for ICCC Platform	Operators shall be able to perform the following actions: 1. Change the incident state. 2. Forward the incident. 3. Transfer the incident.	Please clarify the difference/expectations between Forward and Transfer the incident.	Incident has to be transferred within the team or group if any user is not available for further actions. Incident can be forwarded for information to higher or any other user.
353	2	71	5.1.1. Functional & Technical Requirements for ICCC Platform	A supervisor shall be able to view all incidents that are under his supervision and see the ownership of each incident. In the same view, the supervisor shall also be provided with real-time information about who is currently monitoring an incident.	Request to modify the clause as below: A supervisor mobile app shall be able to view all incidents that are under his supervision and see the ownership of each incident. In the same view, the supervisor shall also be provided with real-time information about who is currently monitoring an incident. Justification: Mobile app view will be more feasible to view	As per RFP
354	2	72	Functional & Technical Requirements for ICCC Platform	For closed incidents, the incident shall be in read-only mode with the exception of adding links to related incidents.	Request to modify the clause as below: For closed incidents, the incident shall be in read-only mode Justification: Once incident closed, it should not be allowed to edit incident	It is clarified that for closed incidents, the incident shall be in read-only mode with the exception of adding links to related closed incidents which gets matured and Extensive over the period of time and as such any modification is not required.
355	2	73	5.1.1. Functional & Technical Requirements for ICCC Platform	The IM must have native document management tool and UC&C platform shall provide the ability to dynamically index documents to an incident in order to improve the efficiency of access to information for an operator.	Please elaborate on 'Document Management Tool'. We assume that the documents attached as part of Incident Management and SOP, should be produced in sequential order. Please confirm our understanding.	Refer reply to query at S.No. 350
356	2	73	5.1.1. Functional & Technical Requirements for ICCC Platform	The IM must have native document management tool and UC&C platform shall provide the ability to dynamically index documents to an incident in order to improve the efficiency of access to information for an operator.	Request to remove the clause from UC&C platform capability Justification: Document Management is not usually part of IM Module	Refer reply to query at S.No. 350
357	2	73	5.1.1. Functional & Technical Requirements for ICCC Platform	A document shall be automatically attached to an incident if the document properties match the incident properties. The following properties shall be available: a. Incident type	Request to remove the clause from ICCC platform capability Justification: Document Management is not usually part of IM Module	Refer reply to query at S.No. 350
358	2	74	5.1.1. Functional & Technical Requirements for ICCC Platform	The IM Module shall provide the ability to skip a step of the SOP and request a justification for skipping the step.	Request to modify the clause as below: The IM Module shall provide the ability to have SOP defined logically Justification: SOP module allows to edit SOP	Refer reply to query at S.No. 350



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359	2	74	5.1.1. Functional & Technical Requirements for ICCC Platform	The IM MODULE shall provide the ability to configure standard options when defining dynamic steps of the SOP.	Request to amend the standard ICCC Standard Operating Procedures (SOPs) related specification to the existing clause as follows: SOP Tool should have capability to define the following activity types: Manual Activity - An activity that is done manually by the owner and provide details in the description field. Automation Activity - An activity that initiates and tracks a work flow and select a predefined flow order from the list. If-Then-Else Activity - A conditional activity that allows branching based on specific criteria. Either enter or select values for Then and Else. Shall use inputs from related other devices to auto-configure responses and email responses to relevant stakeholders creating both time stamped event response and the actual communication sent out to the airport administrative hierarchy and to the field formations Notification Activity - An activity that displays a notification window that contains an email template for the activity owner to complete, and then sends an email notification as per manual alternate responses to the situation, if not an automated standard response to the Smart City administrative hierarchy and the field formations REST Activity - An activity that creates a REST service call. The user can specify the service URL and any required authentication information to be invoked when the activity is started. Mass Notification Activity – An activity should provide the software component for the message broadcast and notification solution that allows authorized personal and/or business processes to send large number of messages to target audience with various communication methods including SMS, Email and Push notification on Mobile apps. SOP Activity - An activity that launches another standard operating procedure.	As per RFP
360	2	75	5.1.1. Functional & Technical Requirements for ICCC Platform	The tool must support native following Crime analytics and Insights module for proactive policing, Authority may want to activate this module on need basis when the needed technology platforms like centralized data lake etc. are available – Prediction can happen for the following entities (indicative)	Request to modify the clause as below: The tool must integrate with Crime analytics and Insights module for proactive policing, Authority may want to integrate this module on need basis when the needed technology platforms like centralized data lake etc. are available – Prediction can happen for the following entities (indicative) Justification: Predictive policing is not a usual requirement of UC&C platform, rather it can be integrated on need basis	As per RFP
361	2	75	5.1.1. Functional & Technical Requirements for ICCC Platform	6.The tool must support native following Crime analytics and Insights module for proactive policing, Authority may want to activate this module on need basis when the needed technology platforms like centralized data lake etc. are available – Prediction can happen for the following entities (indicative)	The Functionality asked in this Clause is related to Policing Platform Solution which is altogether a Separate Solution. The Functionalities asked needs to lot of integration with Back-end Database like Criminal Dossier, CCTNS etc . This Specification is more or less related to forensic and crimination enforcement solution which is generally asked in SafeCity project. So, it is requested to either remove this specifications from ICCC platform or ask for the detailed Predictive platform including GIS based Crime Mapping & Crime Forecasting as a separate solution in the RFP	As per RFP
362	2	78	5.1.1. Functional & Technical Requirements for ICCC Platform	The configuration of all embedded systems shall be accessible via the Configuration UI.	Request to modify the clause as below: The configuration of all embedded systems shall be integrated and accessible via the Configuration UI. Justification: 3rd party applications shall allow UC&C platform to access/ modify configurations via API	As per RFP
363	2	78	5.1.1. Functional & Technical Requirements for ICCC Platform	The application must have single user unified interface for configurations of all the systems of Video, ANPR and Emergency response.	Mentioned applications like Video analytics, ANPR, Emergency response are three different applications provide by different OEMs. Such applicatiuons have their own configurators for proper configuration & fine tuning and its not possible by any 3rd party UC&C platform to do deep configuration of devices & applications. The alerts from different applications can be pushed to a central UC&C platform for display at central dashboard by integrating the applications. Hence, the mentioned clause is not relevant and we request you to kindly delete the same.	Please refer to the <b>Corrigendum-4</b> regarding deletion of this condition.

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364	2	79	5.1.1. Functional & Technical Requirements for ICCC Platform	Ability to logon/logoff the UPS using an authorized use profile of the system. Ability to change the picture or the password of the user of the mobile app. Ability to view the current Threat Level of the system. Ability to change the current Threat Level of the system. Ability to execute hot actions configured in the user profile. Ability to view below minimum devices Unified with the UC&C platform: Cameras ii. ALPR cameras iii. GIS and Offline Maps iv. Ability to navigate the system hierarchical view of the devices & entities with ability to search entities in the system.	Request to include the standard ICCC Mobile Module – 2 - way communication for Field personnel related specification as follows: Should have integrated Mobile Application for Android and iOS for capturing real-time information from the field response team using Mobile- Standard Operating Procedure. The platform should have mechanism to assign task to nearest field team so that response team could be dispatched to the point of concern. Mobile application should allow the field responder to perform the following actions through mobile app a. Create an incident from the field b. View incidents and relevant incident information including location and attachments c. Exchange comments with the control room operators and other users d. Support incident management at offline mode with ability to sync information when reconnect with network e. Use a native app (iPad) running IOS operating systems or web based portal f. View new incidents as part of the incident SOP actions g. Update the status of the incident h. View individual, bulk and escalation notifications i. View the incident location on the map j. Navigation option provided to reach the incident location k. Able to view attached image/document of the incident l. Update the ATR- Action Taken Report (Audio/ Video/ Image) for the incident along with appropriate remarks	As per RFP
365	2	80	5.1.2. Functional & Technical Requirements for Video Display Wall	The SDK shall enable end-users to develop new functionality (user interface, standalone applications, or services) to link the UC&C to third party business systems and applications such as Badging Systems, Human Resources Management Systems (HRMS), and Enterprise Resource Planning (ERP) systems.	As per our understanding, The ICCC proposed should have a capabilities to have SDK/APU Integration with third party business and applications such as Badging Systems, Human Resources Management Systems (HRMS), and Enterprise Resource Planning (ERP) systems. Please clarify if our understanding is correct.	As per RFP
366	2	80	5.1.2. Functional & Technical Requirements for Video Display Wall	The SDK shall enable end-users to develop new functionality (user interface, standalone applications, or services) to link the UC&C to third party business systems and applications such as Badging Systems, Human Resources Management Systems (HRMS), and Enterprise Resource Planning (ERP) systems.	Request to modify the clause as below: The APIs/SDK shall enable end-users to develop new functionality (user interface, standalone applications, or services) to link the UC&C to third party business systems and applications such as Badging Systems, Human Resources Management Systems (HRMS), and Enterprise Resource Planning (ERP) systems. Justification: Some 3rd party applications only support API level integration	As per RFP
367	2	81	5.1.1. Functional & Technical Requirements for ICCC Platform 5. No Technical Specification	The Application shall limit the IP ports in use and shall provide the Administrator with the ability to configure these ports.	Request to modify the clause as below: The Application deployment setup shall limit the IP ports in use and shall provide the server administrator with the ability to configure these ports. Justification: Usually IP ports configuration will be available at deployment setup	As per RFP
368	2	81	5.1.2 Functional & Technical Requirements for Video Display Wall	ProjectionDLP Rear Projection with each cube having 4K-UHD resolution	Minimum 4K (3840 x 2160) per Cube & overall Video Walls which is again specific to one OEM Monopoly and Restrictive in Participation. All the Video Sensors are Full-HD. There is no requirement as such of display device will be of 4K Resolution. Request you to change it to Full HD per cube so that other OEM Can Qualify else it will lead to one OEM Monopoly and Restrictive in Participation	As per RFP
369	2	81	5.1.2. Functional & Technical Requirements for Video Display Wall	Half Gain viewing angle: Horizontal $\pm 180^\circ$ , Vertical $\pm 180^\circ$	Please change this to: Full viewing Angle: 180 degree with Half viewing angles of H : $\pm 36^\circ$ and V : $\pm 34^\circ$ and minimum three layer with hard backing to prevent bulging. Justification: 180 degree half gain viewing angle is not feasible to achieve through any screen used in DLP videowall. Best half gain viewing can be achieve is H : $\pm 36^\circ$ and V : $\pm 34^\circ$ .	Refer <b>Corrigendum-4</b> wherein instead of half gain Full Gain viewing angle: Horizontal $\pm 180^\circ$ , Vertical $\pm 180^\circ$ has been mentioned
370	2	81	5.1.2. Functional & Technical Requirements for Video Display Wall	Cube Depth Less than 600 mm	Every OEM has its own architecture of Video Wall; so request you to change the Cube Depth as per Video Wall OEM Architecture	As per RFP
371	2	81	5.1.2. Functional & Technical Requirements for Video Display Wall	2. Projection Technology DLP Rear Projection with each cube having 4K-UHD resolution	Projection Technology DLP Rear Projection with each cube having 4K-UHD resolution is specific to ONE OEM only Request you to change it Projection Technology DLP Rear Projection with each cube having Full HD resolution so that other OEM Can Qualify with a fair tendering process else it will lead to one OEM Monopoly	As per RFP
372	2	82	5.1.3. Functional & Technical Requirements for Video Wall Controller	1. Display controller Each Controller to be able to control each PATNA SMART CITY OFFICE video wall with a total resolution of 15360 x 8640	Minimum Native resolution should be 15360 x 8640 is specific to one OEM Only; Request you to change it 1920x1080 for 1 module/cubicle and 7680 x 4320 for Total video wall resolution so that other OEM with a fair tendering process Can Qualify else it will lead to one OEM Monopoly Request you to change it to Display controller Each Controller to be able to control each PATNA SMART CITY OFFICE video wall with a total resolution of 7680 x 4320	As per RFP

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373	2	82	5.1.3. Functional & Technical Requirements for Video Wall Controller	7. Scalability: The system should be able to add additional inputs as required in the future using additional chassis/cards	Please confirm the inputs and no of 4 channel -HD Capture to be consider in each controller.	As per RFP
374	2	85	5.1.5. Functional and Technical Specification of PTZ Joy Stick	4 The Digital Keyboard (Joystick) should be ONVIF compliant and supports all features/ functionality of the VMS and NVR.	Request to kindly changes The Digital Keyboard (Joystick) should be ONVIF compliant/control camera through VMS /NVR	As per RFP
375	2	85	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)		4 The Digital Keyboard (Joystick) should be ONVIF compliant and supports all features/ functionality of the VMS and NVR.	As per RFP
376	2	86	5.1.8. Functional & Technical Requirements for IP Phones	3. Graphic Display - Min 2.5-inch	3. Graphic Display - Min 2.5-inch	As per RFP
377	2	86	5.1.8. Functional & Technical Requirements for IP Phones	3. Graphic Display - Min 2.5-inch	We request the authority to increase the display Screen Size to 5" as 2.5" is very small, with respect to the features asked on the phone.	As per RFP
378	2	87	5.1.8. Functional & Technical Requirements for IP Phones	12 Power Input:100-240V; Output: +12V, 0.5A Integrated Power-over-Ethernet (802.3af) Max power consumption: 6.4W (power adapter) or 6.49W (PoE)	12 Power Input:100-240V; Output: +12V, 0.5A Integrated Power-over-Ethernet (802.3af) Max power consumption: 6.4W (power adapter) or 6.49W (PoE)	Yes, your understanding is correct
379	2	87	5.1.8. Functional & Technical Requirements for IP Phones	12 Power Input:100-240V; Output: +12V, 0.5A Integrated Power-over-Ethernet (802.3af) Max power consumption: 6.4W (power adapter) or 6.49W (PoE)	Please confirm if the Power Adaptor is to be supplied day one.	Yes, your understanding is correct
380	2	87	5.1.8. Functional & Technical Requirements for IP Phones	6. Video Codec - Support for G.729A/B, G.711μ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	6. Video Codec - Support for G.729A/B, G.711μ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	As per RFP
381	2	87	5.1.8. Functional & Technical Requirements for IP Phones	6. Video Codec - Support for G.729A/B, G.711μ/a-law, G.726, G.722(wide-band), in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	The Codecs Mentioned in the Specifications are Audio Codecs for VOIP Phone. We request the authority to remove G.726 as it's a legacy codec not supported by phones. And we would suggest to Include OPUS/ILBC, which are latest compression standards. Revised Clause: Audio Codec - Support for G.729A/B, G.711μ/a-law, G.722(wide-band), OPUS/ILBC in band and out-of-band DTMF (in audio, RFC2833, SIP INFO)	As per RFP
382	2	87	5.1.8. Functional & Technical Requirements for IP Phones	8. Telephony Features Hold, transfer, forward, 3 way conference, call park, call pickup, shared-call appearance /bridgedline- appearance, downloadable phonebook, call waiting, call log XML	8. Telephony Features Hold, transfer, forward, 3 way conference, call park, call pickup, shared-call appearance /bridgedline- appearance, downloadable phonebook, call waiting, call log XML	As per RFP
383	2	87	5.1.8. Functional & Technical Requirements for IP Phones	8. Telephony Features Hold, transfer, forward, 3 way conference, call park, call pickup, shared-call appearance /bridgedline- appearance, downloadable phonebook, call waiting, call log XML	We request the authority to remove Downloadable phonebook as the feature is not supported.	As per RFP
384	2	87	5.1.8. Functional & Technical Requirements for IP Phones	8. Telephony Features Hold, transfer, forward, 3 way conference, call park, call pickup, shared-call appearance /bridgedline- appearance, downloadable phonebook, call waiting, call log XML	We request the authority to remove Downloadable phonebook as the feature is not supported. Phonebook is pushed from the IP PBX to Phones and cannot be downloaded from phone.	As per RFP
385	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Kindly Clarify where this camera is used. Usually indoor dome cameras are used inside ICC.	As per RFP

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386	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras 7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	Pls share technical specification for Fixed BOX camera and Fixed Bullet separately.and also kindly differentiate the functionality and clarify where to use the two different cameras(BOX and Bullet)	As per RFP
387	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Minimum Illumination: Sr. 04 Color 0.1 lux , B/W 0.0005 lux	Ammendment / Change Required Min illumination : 0 Lux @ color, 0 Lux with IR @ B/W , Justification : Kindly keep both Colour & Black white at 0 Lux to allow maximum participation	As per RFP
388	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Minimum Illumination: Sr. 04 Color 0.1 lux , B/W 0.0005 lux	Minimum Illumination: Sr. 04 Color 0.1 lux , B/W 0.0005 lux	As per RFP
389	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Minimum Illumination: Sr. 04 Colour 0.1 lux , B/W 0.0005 lux	Pls change the clause " Min illumination : 0 Lux @ color, 0 Lux with IR @ B/W " Justification : Kindly keep both Colour & Black white at 0 Lux to allow maximum participation	As per RFP
390	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	16 Two way audio Line in / Line out 17 Audio Compression G.711 / G.726 / AAC / LPCM	As per RFP we are finding two way audio features in camera specification .But we are not finding the audio input (Mic ) requirement part of RFP and BOQ .Kindly clarify.	As per RFP
391	2	88	Functional & Technical Requirements for Fixed Box/Bullet Cameras	Day/NightvOperation:- ICR with IR range of 100m or better	Kindly Change to Day/NightvOperation:- ICR with IR range of 60 m or better	As per RFP
392	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	6. Electronic Shutter: 1 ~ 1/10000 sec.	6. Electronic Shutter: 1/5 ~ 1/10000 sec. Request you to change the shutter speed as suggested as greater than 1/5 scc of shutter speed of no use as there will be lot of delay in frames.	As per RFP
393	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	There should be seamless integration of video between Video IP phone and Video End point for point to point and multipoint conferences. For this both the components should be from the same OEM.	Please clarify the Video end point, our understanding is regarding the video end point is Camera. Also please allow the componet from different OEM, solution should seamlessly work and itegration is the responsibility of the SI	As per RFP
394	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	User Account :10	Pls change to User Account : 4 or better.	As per RFP
395	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	User Account :10	Pls explain User Account part of camera	As per RFP
396	2	88	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Three Stream supportable , All stream should be H.265	The Cameras Stream used for ITMS application is suggested to have H.264 compression. So, you are requested to ask atleast stream support H.264 if the same type of cameras is used for ITMS Applications like RLV/D/ANPR.	Refer <b>Corrigendum-4</b> wherein three stream with Dual H.265/ Dual H.264/ third stream on h.264/h.265/MJPEG has been mentioned
397	2	88	5.1.9. Functional & Technical Requirements for CTI/PBX System	Voice gateway to be provided with 1 PRI card scalable to 3 PRI in future for PSTN (PRI) line termination.	Please confirm whether PRI Line will be provided by the PSCL or MSI need to be provisioned for the same as part of this project requirement. and also confirm who will bear the recurring charges for the same for the duration of the project.	This will be in the scope of MSI

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398	2	88	5.1.9. Functional & Technical Requirements for CTI/PBX System	System should allow custom client applications to support all call operations like make call, receive call, hold call, voice mail etc using REST API available from PABX.	18. System should allow custom client applications to support all call operations like make call, receive call, hold call, voice mail etc using REST API available from PABX.	As per RFP
399	2	88	5.1.9. Functional & Technical Requirements for CTI/PBX System	System should allow custom client applications to support all call operations like make call, receive call, hold call, voice mail etc using REST API available from PABX.	Please confirm the detail of Client Application to be integrated with the IP PBX Solution.	As per RFP
400	2	88	5.1.9. Functional & Technical Requirements for CTI/PBX System	The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording, headsets, Citizen automated center, etc.) should preferably be from a single OEM	The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording, headsets, Citizen automated center, etc.) should preferably be from a single OEM	Refer <b>Corrigendum-4</b> wherein it has been clarified that the IP PBX, IP Phones, recording, headsets may or may not be from same OEM
401	2	88	5.1.9. Functional & Technical Requirements for CTI/PBX System	The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording, headsets, Citizen automated center, etc.) should preferably be from a single OEM	Kindly revise the clause as The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording, headsets, Citizen automated center, etc.) should preferably be from a single OEM / Different OEM	Refer reply to query at S.No. 400
402	2	88	5.1.9. Functional & Technical Requirements for CTI/PBX System	9. The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording, headsets, Citizen automated center, etc.) should preferably be from a single OEM	Recording is a 3rd Party solution. Hence we request to consider recording from 3rd Party OEM and not from the IP PBX OEM.	Refer reply to query at S.No. 400
403	2	89	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Security:HTTPS / IP Filter / IEEE 802.1X;	Request : Please change Security:HTTPS ,IP Filter , IEEE 802.1X; Camera should be NDAA complied ,There should not any Gb/28281 protocol inside camera firmware .MAC address of camera should be of same OEM .Camera should accept signed firmware only . Clarification:NDAA is very important in terms of cyber security as many camera which having backdoors inside firmware has been banned in many country . NDAA is authority to check such back doors . Gb/28281 protocol has been baned in various government tender because of cyber security threat . Kindly accept our request to include these feature .	As per RFP
404	2	89	Functional & Technical Requirements for Fixed Box/Bullet Cameras	Frame Rate and Resolution:- Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	Kindly Change to Frame Rate and Resolution:- Minimum one streams should be configurable at 1920 X 1080 @ 25 fps	All streams (Except Primary Stream) shall be user configurable at FHD Resolution, 720p and Lower resolution. The Primary Stream shall be set to Full Native resolution of the camera (refer this in <b>Corrigendum-4</b> )
405	2	89	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Simultaneous Stream: Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	10. Simultaneous Stream: Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously Request you to accept the asked change as no OEM can support all 3 streams at full HD resolution.	Refer reply to query at S.No. 404
406	2	89	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Simultaneous Stream : Minimum 3 streams should be configurable at 1920x1080 @25fps simultaneously	The purpose of the sub stream is to have remote view through mobile, hence resolution of this stream should be low to 640 × 480/VGA in order to constrain the bandwidth.Hence min.two streams at 1920x1080 is sufficient to serve the purpose Thus help to amend the clause as - Minimum 3 streams should be configurable , out of these atleast 2 stream should be at 1920 X 1080 @ 25 fps simultaneously	Refer reply to query at S.No. 404
407	2	89	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	Image Setting: Saturation, Brightness, Contrast, Sharpness, Hue adjustable	15. Image Setting: Saturation, Brightness, Contrast, Sharpness, Hue adjustable Request you to remove hue setting option as this is limiting the OEM as Brightness, Contrast, Sharpness & Saturation are the default options available with most of the OEMs.	Image Setting: Saturation, Brightness, Contrast, Sharpness/Hue adjustable (Refer <b>Corrigendum - 4</b> in this regard)
408	2	90	5.1.11.2. General Standards	Point No. 5.1.11.2 Sub Clause b).i ASTM or Equivalent fire norms. b).iii ..... & green guard passed desk.	It is recommended to mention below clauses for operators safety & health b)i class A for ASTM e84 to be mentioned instead of "equivalent fire norm" parameter. This is to ensure safety of users against spread of fire & smoke generation. b)iii The Console (open plan) must not emit TVOC(A), Formaldehyde, i.e. 152 µg/m²*hr, 6.2 µg/m²*hr respectively. This is to ensure healthier air quality for the operators. Control desk manufacturer must have had this certificate for at-least three years prior to April 1st, 2021. Valid certificate to be submitted along with the bid.	As per RFP



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409	2	90	5.1.11.2. General Standards	The ICOMC interiors shall be state of the art adhering to the various best practices norms for integrated control centres, including: • Development of ergonomic reports for the ICOMC covering Human Factors Engineering (HFE), ISO9241 (Ergonomic requirements for office work with visual display terminals - VDTs) and ISO11064 (Ergonomic Design of Control Centres) The proposed interior material should meet to basic control room norms, including but not limited to: i. ASTM E84 or equivalent fire norms, ii. High scratch resistant surfaces, iii. Seismic zone compliance and Green Guard passed Desk for ensuring safe environment for operators.	This is specific to Single OEM	As per RFP
410	2	92	5.1.12. Functional & Technical Requirements for ICCS Interiors	5.1.12. Functional & Technical Requirements for ICCS Interiors	Control Desk is one of the most important aspect of any control room; because from these stations any kind of operation & monitoring activities shall be conducted on 24x7 basis. To ensure quality in the final product i.e Control Desk it is recommended to use below mentioned information and necessary documents, test certificates shall be submitted along with the bid. 1. Table-top: - The material of the working surface shall be 25mm thick MDF. The worktop is in direct contact of the users hence the probability of getting scratches is on a higher side. The control room solution provider must ensure that the top finish of the work surface is scratch resistant. Therefore, the top finish shall be of high-pressure ANSI/NEMA LD3 certified scratch-resistant Laminate. The proposed console's life cycle should be assessed (from approved LCA consultant) for environmental impacts associated with all the stages of a product's life for cradle to grave analysis. Each operator desk shall have programmable touch panel having five modules. The first module shall be used to power on/off the Task Light, next two modules to adjust the intensity of task light and the balance module for any further customization. 2. Maintainability Feature- Audited certified design feature of High-density Poly Urethane Foam moulded on industrial grade aluminium core to form 50mm deep tapered edge to be installed on worktop. The edge shall be mechanically replaceable within 30 minutes in case of damage or wear without opening or removing the worktop. Valid UL/ NABL/Government approved test laboratory audit certificate to be enclosed along with the bid. 3. Quality & Durability - The Control Room Turnkey Solution Provider should have Valid trademark registration certificate issued by the Government of India for the console offered in the Tender. This is to ensure that the offered product is an engineered solution. Valid certificates to be enclosed with the bid. 4. Up gradation - Audited certified design feature of Monitor Arm Assembly shall have auto-lock, push & add/remove die-cast aluminium extendible arms of 150mm each with tool less addition/deletion feature to cater future requirements. Tool less addition / deletion in less than a minute. Valid UL/ NABL/Government approved test laboratory audit certificate to be enclosed along with the bid. 5. EPD: The EPD (Environmental product declaration) of control desk must be verified in accordance with ISO 14025 (from UL / NABL / Government approved	As per RFP
411	2	92	5.1.12. Functional & Technical Requirements for ICCS Interiors	Wall Panelling and Ceiling must be seismically tested & Wall Panelling and Ceiling tiles must be Class A fire rated certified for surface burning characteristics.	Proprietary certificate request you to allow submission during execution stage.	Refer <b>Corrigendum-4</b> regarding deletion of this condition.
412	2	92	5.1.12. Functional & Technical Requirements for ICCS Interiors	The entire interior has to be designed as per ISO 11064 (International Norms to Design the Control Center). It should be state-of-art and the design should conform to provisions under ISO 14001 and OHSAS 18001, HFE and ISO 9241, covering various aspects of CCC/NOC.	As per RFP, Interior of ICCS will be carried out as per Specification but the lineitem for the same neither mentioned in the BoQ nor in Commercial format, request to add the same for factor/quote the actual commercial accordingly. Kindly clarify , how much area size need to be covered for ICCS & DC Built. Please share the details for the same.	As per RFP
413	2	92	5.1.12. Functional & Technical Requirements for ICCS Interiors	The entire solution (IP PBX, its hardware, IP Phones, Voice Gateway, recording, headsets, Citizen automated center, etc.) should preferably be from a single OEM	The OEM of contact center hardware and software may or may not be same. The current clause is a restrictive clause for each side of oem. Hence we request you to kindly delete this clause.	Refer reply to query at S.No. 400
414	2	92	5.1.12. Functional & Technical Requirements for ICCS Interiors	It must be safe, and the components used should not PROVOKE FIRE. So, ASTM E84 (Standard Test Method for Surface Burning Characteristics of Building Materials) certified materials to be used for wall cladding, flooring, panelling, partitions and ceilings. Safety of User & control room equipment is a high concern area therefore ceiling, paneling, partition and desk must be seismically tested and qualified. The test must be carried out by authorized government agency and certificate to be submitted.	Seismic Certificate for ceiling, paneling & partition is Proprietary, request you to allow submission of same during execution stage.	Refer reply to query at S.No. 411

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415	2	93	5.1.10. Functional & Technical Requirements for Fixed Box/Bullet Cameras	UL Certificate/Undertaking on 11064 standards on Load bearing capacity of Panelling - Panelling structure shall have load carrying capacity of 300 Kg to hold any display unit on. UL Certificate/ISO 11064 Norms undertaking need to be enclosed along with the bid.	Proprietary certificate request you to delete it.	Refer <b>Corrigendum-4</b> regarding deletion of this condition.
416	2	93	5.1.12. Functional & Technical Requirements for ICCI Interiors	5.1.12. Functional & Technical Requirements for ICCI Interiors	In addition to the existing criteria it is recommended to add below information 1. A prototypical design approach must be adopted for design of control centers & consoles so, it must be prepared in strict compliance to ISO 11064 i.e. Ergonomic Design of control centers. Professional control room interior solution provider to submit an ergonomic study report including control room & desk along with the bid. The study must cover, Lux level reports as per industry acceptable illumination levels, spatial arrangement for efficient & safe movement of operators within the control room during normal and emergency situations, Ideal viewing angles (of operators) to ensure little head movement and minimal eye movement. All these considerations must be shown in the drawings during bid submission and the report must be signed by an ergonomist who has an experience of doing at-least three projects of control room ergonomic study. 2. The requirements must be elaborated via a smart virtual-reality module with auto-recommendation during design approval stage before commencement of job.	As per RFP
417	2	93	5.1.12. Functional & Technical Requirements for ICCI Interiors	5.1.12. Functional & Technical Requirements for ICCI Interiors 15. Partitions	In addition to the existing criteria it is recommended to add below information 1. Dynamic Touch Screen: - The supervisor/Central Operator desk shall feature an integrated touch screen with illumination automation software to view/control below parameters: a. Provide live data of Humidity & temperature of the control room. b. Control the indicators to change the colours like blue, green and red during different control room scenarios viz. VIP visits, shift change and emergency respectively for the RGB lights installed on wall panelling, peripheral metal ceiling & control desks.	As per RFP
418	2	93	5.1.12. Functional & Technical Requirements for ICCI Interiors	5.1.12. Functional & Technical Requirements for ICCI Interiors 15. Partitions	In addition to the existing criteria it is recommended to add below information to achieve a durable & robust product 1. Easy Replacement - Audited Certified feature of Modular wall Paneling tile having secure locking arrangement for equidistant mounting. Locking arrangement enables easy replacement without using any tool within 20 seconds. The feature shall provide easy flexibility of locking all tiles in one column through gravity. Valid UL/ NABL/Government approved test laboratory Certificate to be submitted along with the technical bid. 2. Environmental Concern - To ensure restriction of hazardous substances; so that the final product does not contaminate the environment and we give a healthy life to our coming generations it is necessary that the modular metal panelling and modular metal ceiling shall be RoHS certified (from UL / Intertek). Valid UL/ NABL/Government approved test laboratory Certificate to be submitted along with the technical bid. 3. Fire Safety: It is well known that metal is resistant to fire as compared to wood & fabric. However, from fire and safety point of view, to ensure that the used material is not subjected to any kind of surface treatment which provokes fire. The proposed ceiling/panelling/partition tiles should be Class A certified as per ASTM E84 (from UL/Intertek/NABL/Government approved test laboratory) for surface spread of flame and smoke generation. This is mandatory to ensure that the materials used in the interiors do not provoke fire. Valid Certificate to be submitted along with the technical bid.	As per RFP

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419	2	93	5.1.12. Functional & Technical Requirements for ICCC Interiors	5.1.12. Functional & Technical Requirements for ICCC Interiors	In addition to the existing criteria it is recommended to add below information:- 1. To ensure an integrated solution, to qualify as per the international control room design & safety norms; main bidder shall bring one single professional Control Room Interior Solution Provider on board with an experience of designing, manufacturing and installing at least twenty control room interiors along with control desk. Corresponding purchase orders/work orders and their appreciation/completion letters to be submitted along with the bid. 2. In a typical control room the environment is defined by four major components viz : Ceiling, Flooring, Control Desks & Wall panelling as 90% of the visible area is defined by these components. The Console (open plan) must not emit TVOC(A), Formaldehyde, i.e. 152 µg/m <sup>2</sup> *hr, 6.2 µg/m <sup>2</sup> *hr respectively. The critical components of the control room i.e. designer metal ceiling, carpet/laminated flooring, modular metal wall panelling/partitions must not emit formaldehydes, TVOC beyond permissible limits i.e. 9 µg/m <sup>3</sup> , 0.22 mg/m <sup>3</sup> respectively. This is to ensure healthier air quality for the operators. Therefore, the control room interior shall be Greenguard Gold Certified (Modular Metal Ceiling, Flooring & Modular Metal wall panelling) from UL/Intertek/NABL/Government approved test laboratory. Valid certificates to be enclosed with the bid. 3. The professional control room solution provider must have experience of supplying a cumulative value of atleast 500 square meter of metal wall panelling, 500 square meter of designer metal false ceiling and atleast 100 modules with modular removable polyurethane edge on profiled aluminum core for control room application in past five financial years.	As per RFP
420	2	94	5.1.12. Functional & Technical Requirements for ICCC Interiors	All desired certificates or undertaking to be obtained from UL or Intertek or 11064 standard or any Indian Government owned Research / Testing Institute.	All mentioned certificates are Proprietary, request you to delete the certifications or confirm on the MAKES to consider for Celing, Paneling, Partition & Desks.	Refer <b>Corrigendum-4</b>
421	2	96	5.1.12. Functional & Technical Requirements for ICCC Interiors	SI has to work out the exact requirement as per given building layouts at Annexures. vii. Fire Vault viii. Baggage Scanner	As per RFP, Fire Vault & Baggage Scanner is being asked but the lineitems & Qty for the same is missing in the Bill of Material, Request to add the same for factor or quote the commercial accordingly.	Baggage Scanner is not included in the current scope of RFP and does not figure in BOQ
422	2	96	5.1.12. Functional & Technical Requirements for ICCC Interiors	Miscellaneous – SI has to work out the exact requirement as per given building layouts at Annexures. i. Furniture ii. Reception Table iii. Meeting Table iv. Security table v. Chairs vi. Metal Detector vii. Fire Vault viii. Baggage Scanner ix. Printer ( A3,A4) Scan and copier	Kindly specify the Quantities.	As per RFP
423	2	100	5.2.1. ICT Hardware Components for Data Centre	The Core Router should be chassis based, Should have redundant processor and redundant power supply. All the Interfaces should be provided in line cards and no interface should be on CPU card. All interface should have wire speed performance.	The Core Router should be chassis/fixed based, Should have redundant processor/peer configuration and redundant power supply. All the Interfaces should be provided in line cards/dedicated hardware ASIC and no interface should be on CPU card. All interface should have wire speed performance.	As per RFP
424	2	100	5.2.1. ICT Hardware Components for Data Centre	The Core Router should be chassis based, Should have redundant processor and redundant power supply. All the Interfaces should be provided in line cards and no interface should be on CPU card. All interface should have wire speed performance.	The Core Router should be chassis/fixed based, Should have redundant processor/peer-configuration and redundant power supply. All the Interfaces should be provided in line cards/dedicated hardware ASIC and no interface should be on CPU card. All interface should have wire speed performance.	As per RFP
425	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Router should have IPv4, IPv6 and QoS Classification. Should have 3M IPv4, 2M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.	Router should have IPv4, IPv6 and QoS Classification. Should have 1M IPv4, 400K IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.	As per RFP
426	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	New	Additional All latest features should be asked for building a scalable network Change Request "Router shall support IPV4 and IPV6L3VPN,L2VPN,VPLS,mVPN,IGMP V2/V3,MLD,IGMP and PIM,6PE and 6VPE mode for IPV6 transport over IPV4, ECMP,LDP,BGP Prefix independent control (EDGE and Core) for IPV4 and IPV6,BGP,IS- IS,OSPFv2and V3,RSVP,RRRP Traffic Engineering,Ti-LFA Segment Routing,Segment Routing TE and 6 label stack and SR-LDP interworking,On demand nexthop,SRv6,Anycast SID,IP FRR,LDP FRR(Local and Remote)and SyncE and 1588v2 support from day 1"	As per RFP
427	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Operating temperature of 0°C to 45°C	Change Request "Operating temperature of 5°C to 40°C" Justification "Th router will be installed in controlled enviroment So reques to change the temperature to 5 to 40."	Operating Temperature -10°C to 50°C minimum (Refer <b>Corrigendum-4</b> )

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
428	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Operating temperature of 0°C to 45°C	Kindly revise the clause as "Operating temperature of 5°C to 40°C"	Refer reply to query at S.No. 427
429	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Operating temperature of 0°C to 45°C	Operating temperature of 0°C to 40°C	Refer reply to query at S.No. 427
430	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Operating temperature of 0°C to 45°C	Operating temperature of 0°C to 45°C	Refer reply to query at S.No. 427
431	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	Change Request "Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXlan, BGP" Justification "NAT can be asked separately if required.Core transport routers donot do NAT.Pls remove for larger participation.RIP is an obsolete protocol and not used . OSPF and ISIS is used as core routing protocol. Pls remove"	As per RFP
432	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	Change Request "Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXlan, BGP. Internal or External NAT support" Justification "NAT can be asked separately if required.Pls remove for larger participation.RIP is an obsolete protocol and not used . OSPF and ISIS is used as core routing protocol. Pls remove"	As per RFP
433	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	Kindly revise the clause as Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, GP"	As per RFP
434	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	As per RFP
435	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast/EVPN using MPLS LSP, IS- IS, HQOS (64 K queues)/VOQ, LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS/VPWS, Differ TE, RIP V 2, OSPF, VXLAN, BGP	As per RFP
436	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS, LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast/EVPN using MPLS LSP, IS- IS, HQOS, LDP, MPLS, MPLS FRR, L2 VPN, L3 VPN, VPLS/VPWS, Differ TE, RIP V 2, OSPF, VXLAN, BGP	As per RFP
437	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS (64 K queues), LDP, MPLS, MPLS FRR, L2 VPN,L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, VXLAN, BGP, NAT	Request to please change this as "Protocol: DHCP, IP Multicast, PIM SM, PIM SSM, IGMP, MLD, RP, Next generation Multicast using MPLS LSP, IS- IS, HQOS, LDP, MPLS, MPLS FRR, L2 VPN,L3 VPN, VPLS, Differ TE, RIP V 2, OSPF, BGP, NAT".VxLAN is relevant for L2 mobility and for Leaf and Spine DC-DR active active architecture which is not relevant here.Request to please change so that all the leading OEM can participate.	As per RFP
438	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Router should have IPv4, IPv6 and QoS Classification. Should have 3M IPv4, 2M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.	Router should have IPv4, IPv6 and QoS Classification. Should have 3M IPv4, 2M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.	As per RFP
439	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Router should have IPv4, IPv6 and QoS Classification. Should have 3M IPv4, 2M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.	Change Request "Router should have IPv4, IPv6 and QoS Classification. Should have 2M IPv4, 1M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system." Justification "please change the IPV4and IPV6 routes. These are on very higher side. Internet has 512k routes so 2M ipv4 will be more than sufficient"	As per RFP
440	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	The Router should have High Availability Features: Non Stop Routing, Graceful Restart, In Service Software Upgrade, 802.1ag, MC-LAG, BFD for IPv4 and IPv6, VRRP.	The Router should have High Availability Features: Non Stop Routing, Graceful Restart, In Service Software Upgrade, 802.1ag/802.1ab, MC-LAG, BFD for IPv4 and IPv6, VRRP.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
441	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	There is no mention of expenses and charges with respect to RI, ROW, Fuel & Electricity charges.	we assume the RI, ROW, Fuel & Electricity charges will be in the scope of Client. Please clarify if the understanding is correct	As per RFP
442	2	100	5.2.1.2. Functional & Technical Requirements for Internet Router	The Router shall support GE/FE, 10GE-LAN, 10GE-WAN, 40GE, 100GE, 100G OTN Interfaces	The Router shall support GE/FE, 10GE-LAN, 10GE-WAN, 40GE, 100GE, 100G OTN/Fiber Interfaces	As per RFP
443	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Router should have IPv4, IPv6 and QoS Classification. Should have 3M IPv4, 2M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.	Kindly revise the clause as "Router should have IPv4, IPv6 and QoS Classification. Should have min 2M IPv4, 1M IPv6 routing entries 512 IPv4 Multicast "	As per RFP
444	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Router should have IPv4, IPv6 and QoS Classification. Should have 3M IPv4, 2M IPv6 routing entries, 50000 IPv4 Multicast & 8000 IPv6 Multicast routing per system.	Request to please change this as "Router should have IPv4, IPv6 and QoS Classification. Should have 3M IPv4, 2M IPv6 routing entries, 4000 Multicast entries". Multicast routes differs from OEM to OEM, request to please change this and make it open for wider OEM participation.	As per RFP
445	2	100	5.2.1.1. Functional & Technical Requirements for Core Router	Router should support Netconf, YANG (RFC 6020), Openflow/REST API, VXLAN, Segment Routing & time synchronization Synchronous Ethernet, 1588v2 & Adaptive Clock recovery/PTP	Request to please remove this for wider OEM participation.	As per RFP
446	2	101	5.2.1.1. Functional & Technical Requirements for Core Router	The back- plane capacity of Router should be minimum 7Tbps & forwarding performance of 5000Mpps packets per sec of 64 bytes packet. The performance is considered with IPv4 & IPv6	Request to please change this as "The back- plane capacity of Router should be minimum 2Tbps & forwarding performance of 400 Mpps packets per sec of 64 bytes packet. The performance is considered with IPv4 & IPv6". RFP ask 7Tbps and 5000 Mpps is on very higher side respect to DC router. Request to please change so that leading OEM can participate.	As per RFP
447	2	101	5.2.1.1. Functional & Technical Requirements for Core Router	The back- plane capacity of Router should be minimum 7Tbps & forwarding performance of 5000Mpps packets per sec of 64 bytes packet. The performance is considered with IPv4 & IPv6	The back- plane capacity of Router should be minimum 2Tbps & forwarding performance of 700Mpps packets per sec of 64 bytes packet. The performance is considered with IPv4 & IPv6	As per RFP
448	2	101	5.2.1.1. Functional & Technical Requirements for Core Router	The back- plane capacity of Router should be minimum 7Tbps & forwarding performance of 5000Mpps packets per sec of 64 bytes packet. The performance is considered with IPv4 & IPv6	The back- plane capacity of Router should be minimum 2Tbps & forwarding performance of 700Mpps packets per sec of 64 bytes packet. The performance is considered with IPv4 & IPv6	As per RFP
449	2	101	5.2.1.2. Functional & Technical Requirements for Internet Router	The Router shall support GE/FE, 10GE-LAN, 10GE-WAN, 40GE, 100GE, 100G OTN Interfaces	Request to please change this as "The Router shall support GE/FE, 10GE-LAN, 10GE-WAN interfaces". ISP link can be 1G or 10G, 40G and 100G may not be required here and also scale out the overall solution. Request to change so that leading OEM can participate here. OTN is relevant for telecommunication environment but this is only DC requirement.	As per RFP
450	2	101	5.2.1.2. Functional & Technical Requirements for Internet Router	Interface Requirement: 20 X 1 Gig Base SFP interface and 10 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	Change Request "Interface Requirement: 12 X 1 Gig Base SFP interface and 12 X 10Gig interface, 4x40G and 4x100G (The optics should be populated from day one) and Chassis should have Atleast 2 free slots to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement. Justification "As per architecture the core and aggregation has to be 100G. So 100G Ports are required on Day 1. few Aggregations and data centre connectivity may come on 40G so 40G will also be required. Majority of interfaces can be covered in smaller 4-6 slot chassis so 2 Spare slot will be fine. Smaller router will result in let infra requirements"	As per RFP
451	2	101	5.2.1.2. Functional & Technical Requirements for Internet Router	Interface Requirement: 10 X 1 Gig Base SFP interface and 8 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	Interface Requirement: 10 X 1 Gig Base SFP interface and 8 X 10Gig interface (The optics should be populated from day one) and Chassis/Router should scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	As per RFP
452	2	101	5.2.1.2. Functional & Technical Requirements for Internet Router	Interface Requirement: 10 X 1 Gig Base SFP interface and 8 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	Interface Requirement: 10 X 1 Gig Base SFP interface and 8 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	As per RFP
453	2	101	5.2.1.2. Functional & Technical Requirements for Internet Router	Interface Requirement: 20 X 1 Gig Base SFP interface and 10 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	Interface Requirement: 20 X 1 Gig Base SFP interface and 10 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	As per RFP



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454	2	101	5.2.1.2. Functional & Technical Requirements for Internet Router	Interface Requirement: 20 X 1 Gig Base SFP interface and 10 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	Interface Requirement: 20 X 1 Gig Base SFP interface and 10 X 10Gig interface (The optics should be populated from day one) and Chassis/Router should scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	As per RFP
455	2	101	5.2.1.2. Functional & Technical Requirements for Internet Router	Interface Requirement: 20 X 1 Gig Base SFP interface and 10 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 10Gig interface, 40G QSFP+ & 100G SFP28/CFP2 interface as per the requirement.	Request to please change this as "Interface Requirement: 20 X 1 Gig Base SFP interface and 10 X 10Gig interface (The optics should be populated from day one) and Chassis should have Atleast 4 free main slot (not daughter slots) to scale in future to support additional 1G, 10Gig interface". ISP link can be 1G or 10G, 40G or 100G may not be required here and also scale out the overall solution. Request to change so that leading OEM can participate here.	As per RFP
456	2	102	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall/A3	Should be quad core or higher processor based solution for faster processing. The firewall should support atleast 10 Security Processing Cores. The processor should not be proprietary ASIC based.	Since there are various hardware architecture to be used based upon technology, various OEMs use different number of security processing core for different functions. Hence limiting number of minimum security processing cores may lead to non-competitive participation and may get biased to a particular vendor. Should be quad core or higher processor based solution for faster processing.	Refer <b>Corrigendum-4</b> which now reads: Should be quad core or higher processor based solution for faster processing. The processor should not be proprietary ASIC based.
457	2	103	Functional & Technical Requirements for Data Centre Firewall Clause No. B2	Should have built in storage of at least 900 GB, 1 console Port and 1 USB interface.	All major OEMs have shifted to SSD based storage which comes in either 240 GB or 480 GB. This makes the device faster and less vulnerable to mechanical disk fault.	Refer <b>Corrigendum-4</b> , which now reads: Should have built in storage of at least 400 GB, 1 console Port and 1 USB interface.
459	2	103	Functional & Technical Requirements for Data Centre Firewall	Appliance should have hot swappable dual removable fans and should have built in dual, redundant, power supply	Requesting to kindly modify this clause as "Appliance should have dual fans and should have built in dual, redundant, power supply"	As per RFP
460	2	103	Functional & Technical Requirements for Data Centre Firewall	Appliance should have hot swappable dual removable fans and should have built in dual, redundant, power supply	Requesting to kindly modify this clause as "Appliance should have dual fans and should have built in dual, redundant, power supply" Justification:- Different vendors have different hardware design architecture. Some provide removable fans whereas some provide fixed redundant fans & if any of those fans gets damaged then the entire hardware appliance gets changed. So it varies from OEM to OEM that how they design their hardware. So requesting to modify the clause as suggested so that multiple leading vendors, who are complying on the OEM criteria, also can participate in the bid	As per RFP
461	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	Should support min 20K DPI signatures, 60 million Cloud AV signatures and 3500+ Application signatures from day 1 determined.	Request to modify as it is restricting multiple major OEMs who are there in theartner's quadrant.	Refer <b>Corrigendum -4</b> which now reads: Should support min 20K DPI signatures and 3500+ Application signatures from day 1 determined
462	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	Should have ability to prevent potentially malicious files from entering the network. Should have support for files sent to the proposed on-premise sandbox for analysis to be held at the gateway until a verdict is Should have continuously updated database of tens of millions of threat signatures residing in the sandbox servers and referenced to augment the capabilities of the onboard signature database, providing deep packet inspection with extensive coverage of threats. Should support min 20K DPI signatures, 60 million Cloud AV signatures and 3500+ Application Signatures from day 1. determined.	Kindly remove this clause or modify this clause as "Should have ability to prevent potentially malicious files from entering the network. Should have support for files sent to the proposed on-premise sandbox for analysis to be held at the endpoint until a verdict comes. Should have continuously updated database of threat signatures residing in the sandbox servers providing deep packet inspection with extensive coverage of threats."	As per RFP
463	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall/C5	The Firewall should support at least 90,000 new sessions/connections per second.	Requesting to kindly modify this clause as "The Firewall should support at least 500,000 new sessions/connections per second."	As per RFP

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464	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall/ C5	The Firewall should support at least 90,000 new sessions/connections per second.	Requesting to kindly modify this clause as "The Firewall should support at least 500,000 new sessions/connections per second." Justification:- On Pt. No. C5 of this specification it has asked for supporting 5 Million maximum connections. So based on that, the new sessions per second support should be at least 10% of total concurrent sessions capacity as if it is expected to have amximum 5 Million Connections, then at any cdrtain moment/second at least 10% of that can be initiated & the solution should be capable to at least handle that much new sessions per second. So 10% of 5 Million is 500K. So requesting to modify this clause with 500K New Sessions per second support or else the entire solution can be failed with a bottle-neck.	As per RFP
465	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall/ C5	The Firewall should support at least 5 million maximum connections and 100K maximum DPI SSL sessions/connections.	Requesting to kindly modify this clause as"The Firewall should support at least 5 million maximum connections and 100K maximum DPI SSL sessions/connections & minimum 5 Gbps of SSL Inspection Throughput"	As per RFP
466	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall/ C5	The Firewall should support at least 5 million maximum connections and 100K maximum DPI SSL sessions/connections.	Requesting to kindly modify this clause as"The Firewall should support at least 5 million maximum connections and 100K maximum DPI SSL sessions/connections & minimum 5 Gbps of SSL Inspection Throughput" Justification:- On Pt. No. C1 of this specification it has asked for Threat Prevention Throughput of 5 Gbps. Now a days all most all the internet traffics are SSL based traffic, so as it has for 100K max SSL sessions support, so along with that it should also ask for minimum 5 Gbps SSL Inspection Throughput keeping parity with the Threat Prevention Throughput, or else if any solution is proposed with a lesser SSL Inspection Throughput, then it will be a bottle-neck and entire solution will be failed from the security point of view. Then the solution will not be able scan all SSL based traffic.	As per RFP
467	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	Should have ability to prevent potentially malicious files from entering the network. Should have support for files sent to the proposed on-premise sandbox for analysis to be held at the endpoint until a verdict comes. Should have continuously updated database of threat signatures residing in the sandbox servers providing deep packet inspection with extensive coverage of threats.	Kindly remove this clause or modify this clause as "Should have ability to prevent potentially malicious files from entering the network. Should have support for files sent to the proposed on-premise sandbox for analysis to be held at the endpoint until a verdict comes. Should have continuously updated database of threat signatures residing in the sandbox servers providing deep packet inspection with extensive coverage of threats." If all the Web protocol traffic are getting held at the Gateway for a verdict to come from the sandbox, then the overall network traffic flow will be very much delayed & it will slow down the entire communication channel. So if at all it is required then the best way to do this is to hold the file from execution at the endpoint level. Moreover the specific values asked for signatures are vendor specific. So requesting to either kindly remove this clause or modify the clause as suggested so that multiple leading vendors, who are complying on the OEM criteria, also can participate in the bid.	As per RFP
468	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	Functional & Technical Requirements for Data Centre Firewall	Requesting to kindly modify this clause as "Appliance should have dual fans and should have built in dual, redundant, power supply" Different vendors have different hardware design architecture. Some provides removable fans whereas some provides fixed redundant fans & if any of those fans gets damaged then the entire hardware appliance gets changed. So it varies from OEM to OEM that how they design their hardwares. So requesting to modify the clause as suggested so that multiple leading vendors, who are complying on the OEM criteria, also can participate in the bid	As per RFP
469	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	Functional & Technical Requirements for Data Centre Firewall	Requesting to kindly modify this clause as"The Firewall should support at least 5 million maximum connections and 100K maximum DPI SSL sessions/connections & minimum 5 Gbps of SSL Inspection Throughput" On Pt. No. C1 of this specification it has asked for Threat Prevention Throughput of 5 Gbps. Now a days all most all the internet traffics are SSL based traffic, so as it has for 100K max SSL sessions support, so along with that it should also ask for minimum 5 Gbps SSL Inspection Throughput keeping parity with the Threat Prevention Throughput, or else if any solution is proposed with a lesser SSL Inspection Throughput, then it will be a bottle-neck and entire solution will be failed from the security point of view. Then the solution will not be able scan all SSL based traffic.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
470	2	103	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	Functional & Technical Requirements for Data Centre Firewall	Requesting to kindly modify this clause as "The Firewall should support at least 500,000 new sessions/connections per second." On Pt. No. C5 of this specification it has asked for supporting 5 Million maximum connections. So based on that, the new sessions per second support should be at least 10% of total concurrent sessions capacity as if it is expected to have amximum 5 Million Connections, then at any cdtain moment/second at least 10% of that can be initiated & the solution should be capable to at least handle that much new sessions per second. So 10% of 5 Million is 500K. So requesting to modify this clause with 500K New Sessions per second support or else the entire solution can be failed with a bottle-neck.	As per RFP
471	2	104	5.2.1.4. Functional & Technical Requirements for WAF	In case of device failure, fail safe option actually put the backend applications at high risk by allowing all the traffic to pass through and hit the applications without any protection. It is always recommended to deploy WAF in high availability mode so that if one device fails, other takes over. Since department as already asked WAF in HA; this point is not needed.	Request you to change the clause as below " Support for all deployment modes mentioned below: Transparent inline bridge mode, Transparent reverse proxy mode, Reverse proxy and Passive/promiscuous mode "	As per RFP
472	2	104	5.2.1.4. Functional & Technical Requirements for WAF	More than 50% of the traffic on the internet is BOT traffic out of which 30% is malicious BOTs. Therefore, it has become extremely importnat to distinguish between good and bad BOTs and safeguard the web applications from malicious BOTs.	Request you to change the clause as below "Device should be able inspect HTTP and HTTPS traffic on TCP port 80 &443.The proposed solution should have capability of BOT detection and Protection beyond signatures and reputation to accurately detect malicious and benign bots using client behavioral analysis, server performance monitoring, and escalating JavaScript and CAPTCHA challenges"	Device should be able inspect HTTP and HTTPS traffic on TCP port 80 &443.The proposed solution should have capability of BOT detection and Protection beyond signatures and reputation to accurately detect malicious and benign bots using client behavioral analysis, server performance monitoring, and escalating JavaScript and CAPTCHA challenges (Refer <b>Corrigendum-4</b> )
473	2	104	5.2.1.4. Functional & Technical Requirements for WAF ....	The expected device SSL throughput from load balancer is 10 Gbps. WAF is typically deployed in the DMZ network just before the load balancer to inspect all the SSL traffic and take action on them depending on the configuration set. Therefore, in order to size the appliance its important to have the crtical sizing parameters mentioned and in sync with the other parameters like ssl which is very essential and the throughput of SSL needs to be increased as per industry standard. Also, in case of device failure, fail safe option actually put the backend applications at high risk by allowing all the traffic to pass through and hit the applications without any protection. It is always recommended to deploy WAF in high availability mode so that if one device fails, other takes over. Since department as already asked WAF in HA; this point is not needed. WAF and SLB both are typically deployed in the DMZ network before the server farm to protect and load balance the application traffic to the backend server. From technology and commercials prospective, it is best to have SLB and WAF on the same appliance because both solutions compliment each other.	Request you to change the clause as below "The proposed appliance must be multi-tenanted Network Function Appliance with SLB and WAF as an integrated solution from same OEM and running on same OS with no whitelabling of other OEM solutions allowed. Appliance should provide an overall L7 throughput of min 35 Gbps and 20 Gbps of SSL throughput with an SSL TPS of 35K with RSA 2k Keys and 20k with ECC (ECDSA P-256), 40 million concurrent connection, 750K Layer4 connection per second. The device should have minimum of 4X1G ports & 4x10G Ports and 4x40G interfaces from Day1. The throughput should be sustained to its capacity with WAF enabled and security rules in blocking mode"	As per RFP
474	2	105	Functional & Technical Requirements for WAF	Before solution be able detect when an attacker is attempting to request files with suspicious extensions, prefixes and tokens and checking the authorized version of the website content, department must ensure that the source code of that application can stand against cyber attacks. Mobile applications like e-governance, e-challan etc. are key to the success of any Smart City. Therefore, there has to be a solution which can protect these mobile application from BOT and malicious traffic.	Request you to change the clause as below "WAF should be able to detect when an attacker is attempting to request files with suspicious extensions, prefixes and tokens and should support inbuilt capability to protect against the mobile/tablet application-based attacks through Anti-Bot Mobile SDK which whitelist establish trust based on an embedded software package within the application code and corresponding cookie verification to protect application against attacks generated from mobile"	WAF should be able to detect when an attacker is attempting to request files with suspicious extensions, prefixes and tokens and should support inbuilt capability to protect against the mobile/tablet application-based attacks through Anti-Bot Mobile SDK which whitelist establish trust based on an embedded software package within the application code and corresponding cookie verification to protect application against attacks generated from mobile (Refer <b>Corrigendum-4</b> )

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
475	2	105	Functional & Technical Requirements for WAF	Apart from protection against parameter tampering and blocking invalid files, filtering of sensitive words in HTTP request and response, its even more important to secure the way user is accessing the website and protecting its credential from browser based malwares to prevent stealing of credentials.	Request you to change the clause as below " Must protect web application against parameter tampering and must have inbuilt controls to block invalid files, filtering of sensitive words in HTTP request and response.Solution should provide protection against previously stolen credentials and also should be able to encrypt the user credentials in real time. Users typing the credentials on web browser for any web application should be encrypted in real time to protect against browser-based malware. This feature should be agentless and should not require installation of any kind of software either on client or on the application side."	As per RFP
476	2	106	5.2.1.5. Functional & Technical Requirements for AAA: (Authentication, Authorization and Accounting)	The solution should be scalable and stable solution to support 10,000 endpoints for AAA in future using additional appliances	Request to please change this as "The solution should be scalable and stable solution to support 10,000 endpoints for AAA in future using same appliances". This will ensure better ROI.	As per RFP
477	2	109	5.2.1.5. Functional & Technical Requirements for AAA: (Authentication, Authorization and Accounting)	The solution should support for Single Sign On (SAML 2.0) and O-auth for social logins using sites like Facebook, Twitter, Office365, GoogleApps, LinkedIn etc. from day one	We understand that all commercial transaction cost associated with social media integration would be managed by department. The same will be out of scope of bidder. Please confirm on our understanding.	As per RFP
478	2	110	5.2.1.5. Functional & Technical Requirements for AAA: (Authentication, Authorization and Accounting)	It should be certified by EAL/NDPP/NIAP or equivalent	It is restricted to certain OEM , please remove these clause	As per RFP
479	2	111	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	The next Generation Firewall should be Appliance based and have inbuilt features Firewall, IPS, Load balancing, QOS, VPN, AV/Antimalware, DPI, Application control for 3000+ applications	The next Generation Firewall should be Appliance based and have inbuilt features Firewall, IPS, Load balancing, QOS, VPN, AV/Antimalware, DPI, Application control for 3000+ applications	As per RFP
480	2	111	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall	The next Generation Firewall should be Appliance based and have inbuilt features Firewall, IPS, Load balancing, QOS, VPN, AV/Antimalware, DPI, Application control for 3000+ applications	The next Generation Firewall should be Appliance based and have inbuilt features Firewall, IPS, Load balancing/load sharing, QOS, VPN, AV/Antimalware, DPI, Application control for 3000+ applications. Load balancing/ Load sharing are interchangeably used in firewall by different vendors. Both of them provide the capability to prioritise the traffic and route traffic over multiple available links	As per RFP
481	2	111	5.2.1.6. Functional & Technical Requirements for DLP	Support centralized administration. Ability to support network, storage and endpoint DLP from single console and the DLP should be from different than Web Security proxy solution	The RFP does not have any information or requirement of Web Proxy solution. Hence request you to modify the clause as mentioned below "Support centralized administration. Ability to support network, storage and endpoint DLP from single console"	Support centralized administration. Ability to support network, storage and endpoint DLP from single console (Refer <b>Corrigendum-4</b> )
482	2	111	5.2.1.6. Functional & Technical Requirements for DLP	The solution should be able to uniquely tag each classified document. The solution should be able to track initial classification and reclassification events at both document and central logging level. The solution should trigger classification for document on Save, Save As, Print etc. and should be configurable using a management mechanism	Need to be changed "The solution should be able to uniquely tag each classified document. The solution should be able to track initial classification and reclassification events at both document and central logging level."	The solution should be able to uniquely tag each classified document. The solution should be able to track initial classification and reclassification events at both document and central logging level (Refer <b>Corrigendum-4</b> )
483	2	111	5.2.1.6. Functional & Technical Requirements for DLP	The solution should be able to classify unstructured data, namely word/excel/powerpoint/pdf documents and MS Outlook emails. The solution should be able to label the documents in headers/footers with a pre-selection capability for either header or footer or both. The solutions should be able to insert metadata tags in the documents and emails which can be read by DLP Solutions	We understand that the arrangement of the licenses for the software tools to view PDF, Word , PPT and Excel would be managed by department. Please confirm on our understanding.	As per RFP
484	2	111	5.2.1.6. Functional & Technical Requirements for DLP	The end point solution should inspect data leaks from all portable storage and to keep track of what data users are taking from and to their work computers on any kind of portable storage device. The end point solution must monitor and control various storage devices including USB flash 2 drives, CD/DVD, external HDD, card readers, Zip drives, digital cameras, smartphones, PDA, MP3 players, Bluetooth devices etc.,,	Need to be changed "The end point solution should inspect data leaks from all portable storage and to keep track of what data users are taking from and to their work computers on any kind of removable mass storage. "	As per RFP

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485	2	111	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall Clause 5	Support of 30,00,000 or more concurrent connections.	Please change the clause "Support of 15000000 or more concurrent connections with AVC/App-id enabled" As the ask is for NGFW, the new sessions should be considered which is calculated by including L7 parameter	Support of 1,50,00,000 or more concurrent connections with AVC/App-id enabled (Refer <b>Corrigendum-4</b> )
486	2	111	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall Clause 5	Support of 10 Gbps or more IPsec VPN throughput and Support of 10000 or more IPsec VPN Tunnels	Please change the clause "Support of 8 Gbps or more IPsec VPN throughput and Support of 10000 or more IPsec VPN Tunnels"	As per RFP
487	2	111	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall Clause 5	Support of 10 Gbps or more IPsec VPN throughput and Support of 10000 or more IPsec VPN Tunnels	Support of 10 Gbps or more IPsec VPN throughput and Support of 10000 or more IPsec VPN Tunnels	As per RFP
488	2	111	5.2.1.6. Functional & Technical Requirements for DLP	The firewall should support a minimum of 12x 1G Copper Ethernet interfaces and 6x10G interface and 2x40 G Interface for future	Please change the clause "The firewall should support a minimum of 8*1G and 8x 10G SFP+ interfaces from Day 1 and 4x40 G Interface for future" Different OEM support different interface count in the appliance. Hence for broader participation requesting change.	The firewall should support a minimum of 8*1G and 8x 10G SFP+ interfaces from Day 1 and 4x40 G Interface for future (Refer <b>Corrigendum-4</b> )
489	2	111	5.2.1.6. Functional & Technical Requirements for DLP	The firewall should support a minimum of 12x 1G Copper Ethernet interfaces and 6x10G interface and 2x40 G Interface for future	The firewall should support a minimum of 12x 1G Copper Ethernet interfaces and 6x10G interface and 2x40 G Interface for future	Refer reply to S.No. 488
490	2	111	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall Clause 5	Support of 12 Gbps NGFW throughput all modules enabled	Support of 12 Gbps NGFW throughput all modules enabled	As per RFP
491	2	111	5.2.1.3. Functional & Technical Requirements for Data Centre Firewall Clause 5	Support of 12 Gbps NGFW throughput all modules enabled	Support of 25 Gbps NGFW (FW, AVC, and IPS) real-world / production / Enterprise Testing performance / 64K HTTP / 1024B HTTP throughput Different OEM follow different mechanism for measuring performance and hence requested change	As per RFP
492	2	112	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The Switch should have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single IP Address.	Justification "Different OEM achieve same or similar feature using different technologies. Request change for wider participation" Change Request "Switch should support VPC or multichassis EtherChannel to ensure both the switch in active - active."	As per RFP
493	2	112	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The switch shall have Modular operating system provides an easy to enhance and extend feature which doesn't require whole scale changes	Pls amend as "The switch shall have Modular based operating system provides an easy to enhance and extend feature which doesn't require whole scale changes or Operating system should have kernel based ASIC.	As per RFP
494	2	112	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The switch Shall support 1000 Base-SX, LX, LH The switch Shall Support 10Gbase-SR,LR,ER	Request to share the type and number of transceivers to be populated with the this switch	As per RFP
495	2	112	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The Switch should have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single IP Address.	The Switch should have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single IP Address.	As per RFP
496	2	112	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The Switch should have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single IP Address.	The Switch should have the capability to extend the control/Data plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single/individual IP Address.	As per RFP
497	2	112	5.2.1.6. Functional & Technical Requirements for DLP	Proposed solution should have inbuilt Data classification module, which should have direct presence in India. The proposed solution should support Windows, iOS as well as Linux endpoints and servers.	Need to change "Solution should provide and integrate with classification software which is also the Top classification software as per 3rd part reports.	As per RFP



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498	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Unicast Reverse Path Forwarding (uRPF) or equivalent	uRPF is more of a Cisco specific protocol, request to detail the need of the same or delete the same.	As per RFP
499	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Shall have up to 4 Tbps switching capacity and the chassis	As per requested port in RFP, 4 Tbps is on very higher side. Pls. amend as "Shall have up to 2.5 Tbps or more switching capacity and the chassis".	As per RFP
500	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Shall have up to 4 Tbps switching capacity and the chassis	Justification "Since Internet Router and Core Router both asked with 7 Tbps +7 Tbps throughput. Where as core Switch asked with only 4 Tbps throughput, this is major oversubscribe, hence request to increase the core switch throughput " Change Request "Chassis Shall have up to 10 Tbps switching capacity. "	As per RFP
501	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Shall have up to 4 Tbps switching capacity and the chassis	Shall have up to 4 Tbps switching capacity and the chassis	As per RFP
502	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Shall have up to 1.2 Bpps switching throughput	Justification "Since Internet Router and Core Router both asked with 7 Tbps +7 Tbps throughput. Where as core Switch asked with only 4 Tbps throughput, this is major oversubscribe, hence request to increase the core switch throughput " Change Request "Chassis have up to non-blocking switching throughput"	As per RFP
503	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Shall have up to 1.2 Bpps switching throughput	Shall have up to 1 Bpps switching throughput	As per RFP
504	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Shall have up to 1.2 Bpps switching throughput	Shall have up to 1.2 Bpps switching throughput	As per RFP
505	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	It shall support 40 Gb E port in future without any hardware upgrade	It shall support 40 Gb E port in future without any hardware upgrade	Switch shall support 100 GbE port in future without any hardware upgrade (Refer <b>Corrigendum-4</b> )
506	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	It shall support 40 Gb E port in future without any hardware upgrade	Justification "Since Core Switch already asked with 40 GbE port we understand " Change Request "It shall support 100 GbE port in future without any hardware upgrade"	Refer reply to S.No. 505
507	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Should have 24 nos. of 1000 Base-T Ports Copper (RJ-45)	Clarification Kindly confirm is this additional requirement on and above to port asked in point. 2.2 and 2.3 ?	As per RFP
508	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Should have 24 nos. of 1000 Base-T Ports Copper (RJ-45)	Should have 24 nos. of 1000 Base-T Ports Copper (RJ-45)	As per RFP
509	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Redundant/Load-sharing power supplies with N+N power redundancy	Most of the OEM have redundant power supply pls. amend as "Redundant/Load-sharing power supplies with N+N or 1+1 power redundancy	It is clarified that Redundant/Load-sharing power supplies with N+N or 1+1 power redundancy (Refer <b>Corrigendum-4</b> )
510	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The solution should support the ability to warn or prevent users from sending password-protected Microsoft Office documents via email. (The metadata in password protected Office documents is encrypted, so this capability provide an alternative way to enforce policy.) The solution should provide a pre-built starter set of reports for the reporting database (in Excel) and Views and documentation to enable customers to write their own reports.	Need to change"The solution should support the ability to warn or prevent users from sending password-protected Microsoft Office documents via email. (The metadata in password protected Office documents is encrypted, so this capability provide an alternative way to enforce policy.) The solution should provide a pre-built starter set of reports for the reporting database (in Excel) and Views and documentation to enable customers to write their own reports."	As per RFP
511	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The solution should have separate management console of security policies. The firewall management console should support HA and shall be capable of managing up to 2000 NGFW nodes in future and integration with advance security ( Web, Email and DLP console) . The firewall shall offer centralized management with integrated log server, with options to upgrade to multi domain architecture.	The solution should have separate management console of security policies. The firewall management console should support HA and shall be capable of managing up to 2000 NGFW nodes in future and integration with advance security ( Web, Email and DLP console) . The firewall shall offer centralized management with integrated log server, with options to upgrade to multi domain architecture.	As per RFP

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512	2	112	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The solution should have separate management console of security policies. The firewall management console should support HA and shall be capable of managing up to 2000 NGFW nodes in future and integration with advance security ( Web, Email and DLP console ) . The firewall shall offer centralized management with integrated log server, with options to upgrade to multi domain architecture.	The solution should have separate management console of security policies. The firewall management console should support HA and shall be capable of managing up to 50 NGFW nodes in future and integration with advance security . The firewall shall offer centralized management with integrated log server, with options to upgrade to multi domain architecture. OEM specific hence for broader participation requesting change in the clause	As per RFP
513	2	113	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The connected servers or switches should be attached using standard LACP for automatic load balancing and high availability.	Justification "Different OEM achieve same or similar feature using diffent technologies. Request change for wider participation" Change Request "The connected servers or switches should be attached using standard LACP or equivalent for automaticload balancing and high availability"	The connected servers or switches should be attached using standard LACP or equivalent for automatic load balancing and high availability (Refer <b>Corrigendum-4</b> )
514	2	113	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The connected servers or switches should be attached using standard LACP for automaticload balancing and high availability	Kindly revise the clause as " The connected servers or switches should be attached using standard LACP for automaticload balancing and high availability / equivalent	Refer reply to query at S.No. 513
515	2	113	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The connected servers or switches should be attached using standard LACP for automaticload balancing and high availability	The connected servers or switches should be attached using standard LACP for automaticload balancing and high availability	Refer reply to query at S.No. 513
516	2	113	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The connected servers or switches should be attached using standard LACP for automatic load balancing and high availability.	The connected servers or switches should be attached using standard LACP for automatic load balancing and high availability.	Refer reply to query at S.No. 513
517	2	113	Functional & Technical Requirements for DC Core Switch	Bidirectional Forwarding Detection (BFD) for OSPF, BGP and VRRP	Request to please change this as "Bidirectional Forwarding Detection (BFD) for OSPF, BGP and VRRP or equivalent".	As per RFP
518	2	113	Functional & Technical Requirements for DC Core Switch	Graceful restart for OSPF, BGP	Pls. amend as "Graceful restart for OSPF/ BGP".	As per RFP
519	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch S.No. Minimum Technical features shallbe provided from Day 1)	Software Defined Networking (SDN) Capability or REST API capability	Pls. amend as " Software Defined Networking (SDN) Capability or REST API capability or Python or OVSDB"	As per RFP
520	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	IPv6 tunnelling	IPv6/VxLAN tunnelling	As per RFP
521	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	(PIM-SMv6, PIM-DMv6 , PIMSSMv6)/ MLD V1, V2 and 1 K or better multicast routes.	(PIM-SMv6, PIM-DMv6 , PIMSSMv6)/ MLD V1/V2 and 1 K or better multicast routes.	As per RFP
522	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The Switch should be EAL-2/NDPP/NDcPP/FIPS certified	Request to please change this as "The Switch/Switch OS should be EAL-2/NDPP/NDcPP/FIPS certified".Please relax.	As per RFP
523	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Should support VxLan, EVPN	Ask EVPN, VXLAN already asked requesting to add MPLS Change Request "Should support VxLan, EVPN, MPLS"	As per RFP
524	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Should support VxLan, EVPN	Pls. amend as "Should support VxLan/EVPN/IPVPN".	As per RFP
525	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Should support VxLan, EVPN	Should support VxLan, EVPN	As per RFP

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526	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	OpenFlow protocol or EVPN -VXLAN protocol capability to enable software-defined networking	pls. amend as "OpenFlow protocol or EVPN/OVSDB -VXLAN protocol capability to enable software-defined networking/Automation or equivalent."	As per RFP
527	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	Should have segregation of data (packet forwarding) and control plane (routing decision)	Pls. amend as " Should have segregation of data (packet forwarding) and control plane (routing decision) or Automation or equivalent".	As per RFP
528	2	114	5.2.1.7. Functional & Technical Requirements for DC Core Switch	The switch should have 16Gb flash/SSD, 8GB SDRAM/DRAM/RAM	The switch should have 8Gb flash/SSD, 8GB SDRAM/DRAM/RAM	As per RFP
529	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	Switch should at least support 100,000 routing entries IPv4, 50,000 entries (IPv6)	Request huge amount of routing table, Pls. amend as "Switch should at least support 15,400 routing entries IPv4, 7,000 entries (IPv6)" for wider OEM participaitons.	As per RFP
530	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	Switch should at least support 100,000 routing entries IPv4, 50,000 entries (IPv6)	Request to please change this as "Switch should at least support 100,000 routing entries IPv4, 30,000 entries (IPv6)".Please relax so that leading OEM can participate.	As per RFP
531	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The switch should have at least 48 fixed 1000/10000 SFP+ ports, 4 x QSFP+ 40GbE ports.	Justification "Request to add 25G along with 10/1G since most of the servers are now uplink on 25G also all the OEM support asked configuration" Change Request "The switch should have at least 48 fixed 1/10/25 SFP28 ports, 6 x QSFP28 100GbE ports.	As per RFP
532	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The switch should have at least 48 fixed 1000/10000 SFP+ ports, 4 x QSFP+ 40GbE ports.	The switch should have at least 48 fixed 1000/10000 SFP+ ports, 4 x QSFP+ 40GbE ports.	As per RFP
533	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The switch should have UL 60950-1; EN 60825-1 Safety of Laser Products-Part 1; CAN/CSA-C22.2 No. 60950-1/62368-1-14; ROHS Compliance, Emissions : VCCI Class A; EN 55022 Class A	The switch should have UL 60950-1; EN/IEC 60825-1 Safety of Laser Products-Part 1; CAN/CSA-C22.2 No. 60950-1/62368-1-14; ROHS Compliance Emissions : VCCI Class A; EN 55022 Class A	As per RFP
534	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	MAC Address table size of 128,000 entries	For Wider Participation Change Request "MAC Address table size of 80,000 entries"	As per RFP
535	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	MAC Address table size of 128,000 entries	Kindly revise the clause as" MAC Address table size of 80,000 entries"	As per RFP
536	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	MAC Address table size of 128,000 entries	MAC Address table size of 128,000 entries	As per RFP
537	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	MAC Address table size of 128,000 entries	Request to please change this as "MAC Address table size of 95,000 entries".Please relax so that leading OEM can participate.	As per RFP
538	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The switch should have 16Gb flash/SSD, 8GB SDRAM/DRAM/RAM	Every vendor required RAM and flash as per his ASIC, Firmware and using architecture. Pls. amend as The switch should have 4Gb flash/SSD, 2GB SDRAM/DRAM/RAM or as required by switches architecture without lacking of switch performance"	As per RFP
539	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Jumbo frames on Gigabit Ethernet and 10-Gigabit ports	Justification "For better performance Jumbo Frames should support on all the ports including uplinks and downlink ports" Hence Request change "The Switch should support Jumbo frames on Gigabit Ethernet and 10-Gigabit ports and 40G and 100G Ports"	As per RFP
540	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should have 9 MB packet buffer size	Justification "To ensure non-blocking performance" Change Request "The Switch should have 32 MB packet buffer size"	As per RFP

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541	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support ISSU/NSSU/hitless upgrade and hot patching/hitless patching/Min-Loss upgrade while in Virtual chassis / stacking	Request to change the clause as "Switch should support upgradation of the operating systems of the switch without disturbing the traffic flow. There should not be any impact on the performance in the event of the software upgrade/downgrade. It should also support patching of selected process/processes only without impacting other running processes"	As per RFP
542	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Hitless patch upgrades or Min-loss upgrade	Request to change the clause as "Switch should support upgradation of the operating systems of the switch without disturbing the traffic flow. There should not be any impact on the performance in the event of the software upgrade/downgrade. It should also support patching of selected process/processes only without impacting other running processes"	As per RFP
543	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The solution should consolidate (at centralized location) the administration, reporting, and intelligence data sharing intelligence between deployed APT Sensors.	The solution should consolidate (at centralized location) the administration, reporting, and intelligence data sharing intelligence between deployed APT Sensors.	As per RFP
544	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support ISSU/NSSU/hitless upgrade and hot patching/hitless patching/Min-Loss upgrade while in Virtual chassis / stacking	The Switch should support ISSU/NSSU/hitless upgrade and hot patching/hitless patching/Min-Loss upgrade while in Virtual chassis / stacking	As per RFP
545	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Hitless patch upgrades or Min-loss upgrade	The Switch should support Hitless patch upgrades or Min-loss upgrade	As per RFP
546	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Jumbo frames on Gigabit Ethernet and 10-Gigabit ports	The Switch should support Jumbo frames on Gigabit Ethernet and 10-Gigabit ports	As per RFP
547	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should have 9 MB packet buffer size	The Switch should have 9 MB packet buffer size	As per RFP
548	2	115	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single IP Address.	The Switch should have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 Switch. The Fabric should be managed by a single IP Address.	As per RFP
549	2	116	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support EVPN	Pls. amend as "The Switch should support EVPN/IPVPN".	As per RFP
550	2	116	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Graceful restart for OSPF, BGP	Pls. amend as "The Switch should support Graceful restart for OSPF or BGP"	As per RFP
551	2	116	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support IEEE 802.3ad Link Aggregation of up to 60 groups of 32 ports and support for LACP.	Request to please change this as "The Switch should support IEEE 802.3ad Link Aggregation of up to 50 groups of 16 ports and support for LACP". Please relax so that leading OEM can participate.	As per RFP
552	2	116	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should have Advanced modular operating system	Pls. amend as "The Switch should have Advanced modular or kernel based operating system"	As per RFP
553	2	117	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support for 4,096 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping	Even with multi-tenant network, we understand that max VLAN limit can go upto 3000-3500 across core and access. Thus, will request you to amend this clause as " The Switch should support for 3600 VLANs based on port"	As per RFP
554	2	117	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support for 4,096 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping	Even with multi-tenant network, we understand that max VLAN limit can go upto 3000-3500 across core and access. Thus, will request you to amend this clause as " The Switch should support for 3900 VLANs based on port"	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
555	2	117	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support for 4,096 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping	The Switch should support for 4,096 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping	As per RFP
556	2	117	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should Multicast Routing PIM-DM/PIM-SM, PIM-SSM for IPv4 and IPv6	Request to please change this as "The Switch should Multicast Routing PIM-DM/PIM-SM/PIM-SSM for IPv4 and IPv6".	As per RFP
557	2	117	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should Multicast Routing PIM-DM/PIM-SM, PIM-SSM for IPv4 and IPv6	Request to please change this as "The Switch should Multicast Routing PIM-DM/PIM-SM/PIM-SSM for IPv4 and IPv6". Please relax so that leading OEM can participate.	As per RFP
558	2	117	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support for 4,096 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping	Request to please change this as "The Switch should support for 4,040 VLANs based on port, MAC address, IPv4 subnet, protocol, and guest VLAN; supports VLAN mapping". Please relax so that leading OEM can participate.	As per RFP
559	2	117	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support for IGMP Snooping, IPv6 IGMP Snooping/MLD Snooping provides Layer 2 optimization of multicast traffic	The Switch should support for IGMP Snooping, IPv4/6 IGMP Snooping/MLD Snooping/MLD provides Layer 2 optimization of multicast traffic	As per RFP
560	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Strict Priority (SP), WRR/WDRR/WFQ//SDWRR, SP+WRR/ SP+WDRR/SP+WFQ//SP+SDWRR, Configurable Buffer/Time range, Queue Shaping, CAR with 64kbps granularity. The Switch should support traffic shaping technology.	Pls. amend as "The Switch should support Strict Priority (SP), WRR/WDRR/WFQ//SDWRR, SP+WRR/ SP+WDRR/SP+WFQ//SP+SDWRR or Configurable Buffer/Time range or Queue Shaping or CAR with 64kbps granularity or DSCP. The Switch should support traffic shaping technology.	As per RFP
561	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support sFlow (RFC 3176)	Request to change "The Switch should support sFlow (RFC 3176) / nFlow"	As per RFP
562	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support NTP or SNTP and PTP	Request to please change this as "The Switch should support NTP or SNTP".	As per RFP
563	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support NTP or SNTP and PTP	Request to please change this as "The Switch should support NTP or SNTP ". Please relax so that leading OEM can participate.	As per RFP
564	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support IEEE 802.1X and RADIUS network logins	Request to please change this as "The Switch should support RADIUS network logins". 802.1x is edge layer feature not DC switch functionality. Request to please change and modify for wider OEM participation.	As per RFP
565	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Strict Priority (SP), WRR/WDRR/WFQ//SDWRR, SP+WRR/ SP+WDRR/SP+WFQ//SP+SDWRR, Configurable Buffer/Time range, Queue Shaping, CAR with 64kbps granularity. The Switch should support traffic shaping technology.	Request to please change this as "The Switch should support Strict Priority (SP), WRR/DWRR/WDRR/WFQ, SP+WRR/ SP+WDRR/SP+WFQ/SP+DWRR. The Switch should support traffic shaping or rate limiting technology." Request to please change for wider OEM participation.	As per RFP
566	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support VXLAN Layer 2 and Layer 3 gateway support for up to 1k tunnels	Request to please change this as "The Switch should support VXLAN Layer 2 and Layer 3 gateway support for up to 125 tunnels". The current specs will restrict the participation of major OEMs, hence requesting to modify the clause for wider OEM participation. The number being asked for in the RFP is too high from a smartity perspective.	As per RFP
567	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support sFlow (RFC 3176)	sFlow is not supported by all OEM. Hence request to change "The Switch should support sFlow (RFC 3176) / nFlow"	As per RFP
568	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support MAC-based VLAN	The Switch should support MAC-based VLAN/routed VLAN	As per RFP



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569	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support OVSDB for dynamic VXLAN configuration	The Switch should support OVSDB/Rest API for dynamic VXLAN configuration	As per RFP
570	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support sFlow (RFC 3176)	The Switch should support sFlow (RFC 3176)	As per RFP
571	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The Switch should support Strict Priority (SP), WRR/WDRR/WFQ//SDWRR, SP+WRR/ SP+WDRR/SP+WFQ//SP+SDWRR, Configurable Buffer/Time range, Queue Shaping, CAR with 64kpbs granularity. The Switch should support traffic shaping technology.	The Switch should support Strict Priority (SP), WRR/WDRR/WFQ//SDWRR, SP+WRR/ SP+WDRR/SP+WFQ//SP+SDWRR, Configurable Buffer/Time range, Queue Shaping, CAR with 64kpbs granularity/Rate limiting. The Switch should support traffic shaping technology.	As per RFP
572	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The solution should support HTTP enforcement (JSON, XML, HTTP payload) from day one	Please remove the clause OEM favouring, hence for broader participation requesting removal of the clause	As per RFP
573	2	118	5.2.1.8. Functional & Technical Requirements for DC Switches	The solution should support HTTP enforcement (JSON, XML, HTTP payload) from day one	The solution should support HTTP enforcement (JSON, XML, HTTP payload) from day one	As per RFP
574	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	2 * 25GbE or better network ports for ethernet	2 * 25GbE or better network ports for ethernet	As per RFP
575	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	2 * 32Gbps or better FC ports	2 * 32Gbps or better FC ports	As per RFP
576	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	2 x 1.2TB 10K RPM SAS HDD in RAID-1 for RAID -1 for data Server should be configured with integrated RAID controller to support RAID level 0,1,5,6 on internal disks, Server should have 2 or more nos. of 2.5inch HDD bays	2 x 1.2TB 10K RPM SAS HDD in RAID-1 for RAID -1 for data Server should be configured with integrated RAID controller to support RAID level 0,1,5,6 on internal disks, Server should have 2 or more nos. of 2.5inch HDD bays	As per RFP
577	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Up to two Intel® Xeon® Scalable processors, up to 28 cores per processor, min. 2.0 Ghz	Request to kindly confirm if bidder can quote any cores per processor depending upon its solution or 28 cores per socket has to be provided.	As per RFP
578	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	2 * 25GbE or better network ports for ethernet	Request to update this point for bidders to quote latest generation converged architecture. Request to update this point to" 2 * 20GbE OR 4 * 10GbE Converged port".	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
579	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	2 * 32Gbps or better FC ports	Request to update this point for bidders to quote latest generation converged architecture. Request to update this point to " 2 * 32Gbps or better FC ports OR 4 * 10GbE Converged port".	As per RFP
580	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	VMWARE ESX/ESXi, Microsoft Hyper-V, Citrix	The solution should be provided with virtualization software which has the following features ---- 1. Virtualization features like continuous availability of virtual machines, zero data loss, agentless antivirus/antimalware, proactive HA capability that utilizes server health information and migrates VMs from degraded hosts before problem occurs, Virtual machine replication, predictive resource scheduling, virtual machine level encryption features are required. 2. Should support native enterprise supported kubernetes with unified visibility for VMs, Kubernetes clusters, containers from virtualization console for consistent view between Dev and Ops via Kubernetes constructs in virtualization platform. Virtualization platform should provide access to developers through kubernetes APIs to consume VMs, containers and DC infra resources like compute, storage, networking. 3. The environment should be such that each virtual machine should be security hardened with their own set of firewall policies based on constructs such as Mac address, IP ports, objects and tags , active directory groups, security groups etc, which moves automatically during migration of virtual machines. 4. Solution should provide capacity analytics which can identify over-provisioned resources so they can be right-sized and "What If" scenarios to eliminate the need for spreadsheets, scripts and rules of thumb to provide automated root cause analysis, as well as Realtime, and integrated dashboards of performance and capacity to enable a proactive management approach and help ensure SLAs are met	As per RFP
581	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	2 x 1.2TB 10K RPM SAS HDD in RAID-1 for RAID -1 for data Server should be configured with integrated RAID controller to support RAID level 0,1,5,6 on internal disks, Server should have 2 or more nos. of 2.5inch HDD bays	Typically a Dual socket blade server comes with 2x Internal drive slots and the same are required. Two internal drives in RAID 1 is sufficient to provide capacity for OS Swap space and few other utility data since entire application data is stored on a central Storage. For wider participation, please update this point to " 2 x 1.2TB 10K RPM SAS HDD in RAID-1 "	As per RFP
582	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Up to two Intel® Xeon® Scalable processors, up to 28 cores per processor, min. 2.0 Ghz	Up to two Intel® Xeon® Scalable processors, up to 28 cores per processor, min. 2.0 Ghz	As per RFP
583	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Integrated PCIe 3.0 12Gb/s SAS Raid Controller with 2GB Cache to support both internal hard drives of compute sled as well as the hard disks in the storage sled supporting RAID 0, 1, 5, 6, 10, 50, 60	Integrated PCIe 3.0 12Gb/s SAS Raid Controller with 2GB Cache to support both internal hard drives of compute sled as well as the hard disks in the storage sled supporting RAID 0, 1, 5, 6, 10, 50, 60	As per RFP
584	2	119	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Integrated PCIe 3.0 12Gb/s SAS Raid Controller with 2GB Cache to support both internal hard drives of compute sled as well as the hard disks in the storage sled supporting RAID 0, 1, 5, 6, 10, 50, 60	Not all Blade vendors has the option to provide Storage Sleds or Storage blades. As an architecture storage Sleds are required where solution is entry level and require very less storage capacity. Since this RFP requires central Storage capacity the purpose of storage sleds is not there. Requet to update this point for wider participation to" Integrated PCIe 3.0 12Gb/s SAS Raid Controller with 2GB Cache ".	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
585	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & CNA & system health	Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & CNA & system health	As per RFP
586	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & CNA & system health	External Storage comes with their own management solution. Request to kindly update this point to " Agent-free monitoring, driver updates & configuration, power monitoring & capping, RAID management, Hardware compatibility check, monitoring of I/O cards & system health".	As per RFP
587	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers.	Should support remote scripted reconfiguration tools	Not all vendors require scripting for re-configuration. Request to update this point to " Should support reconfiguration tools".	As per RFP
588	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Pre Failure alerts for all active and important components and automatic calls logging. Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD	Request to change this clause to : Should provide predictive failure monitoring/proactive alerts of actual or impending component failure, memory, HDD.	As per RFP
589	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Pre Failure alerts for all active and important components and automatic calls logging. Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD	Request to change this clause to : Should provide predictive failure monitoring/proactive alerts of actual or impending component failure, memory, HDD. Justification - Predictive failure monitoring is only available for critical server components such as memory and HDD. This is an industry standard complied by all major server vendors in market.	As per RFP
590	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers	Should be able to monitor all systems components (BIOS, HBA's, NICs)	Request to update this point to current Generation Remote Management systems. Also, with Converged architecture there is no separate HBA & NIC card provided with the server. Request to kindly update this point to " Should be able to monitor all systems components (BIOS & I/O cards), identify potential issues due to driver & firmware incompatibility and should provide anticounterfeit.	As per RFP
591	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers	Should be able to monitor all systems components (BIOS, HBA's, NICs)	Should be able to monitor all systems components (BIOS, HBA's, NICs)	As per RFP
592	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers.	Should support remote scripted reconfiguration tools	Should support remote scripted reconfiguration tools	As per RFP
593	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Minimum of 3 PCI expansions/Mezzanine expansions.	Minimum of 3 PCI expansions/Mezzanine expansions.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
594	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Minimum of 3 PCI expansions/Mezzanine expansions.	Most of the OEM have 2 PCI slot in thier blade servers. Please change it as 2 PCIe 3.0 slots for wider participation. Request to kindly update this point to" Minimum of 2 PCI expansions/Mezzanine expansions".	As per RFP
595	2	120	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	Minimum of 3 PCI expansions/Mezzanine expansions	This is OEM specific. All the other leading OEM's meet minimum 2 no. of PCI expansion, request you to make it general	As per RFP
596	2	121	5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	3 x full height GPU (NVIDIA T4 or latest series) 8GB to be configured on Day 1	3 x full height GPU (NVIDIA T4 or latest series) 8GB to be configured on Day 1	As per RFP
597	2	121	5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	3 x Gen3 slots all x16	3 x Gen3 slots all x16	As per RFP
598	2	121	5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	3 x Gen3 slots all x16	Different vendors has different terminologies. Kindly relax this point for wider participation. Request to update this point as" 3 x Gen3 slots all x16 or 1 MLoM + 2 PCI-e Gen3 x16 slots."	As per RFP
599	2	121	5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	Min 1U rack mounted with sliding rails	GPU based servers ideally should provide more room to house more number of GPU's depending upon the requirement and better air flow. Kindly udpate this point to" Min 2U rack mounted with sliding rails".	As per RFP
600	2	121	5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	Min 1U rack mounted with sliding rails	Min 1U rack mounted with sliding rails	As per RFP
601	2	121	5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	3 x full height GPU (NVIDIA T4 or latest series) 8GB to be configured on Day 1	Request to leave this to bidder on the number of cards they want to populate per server. It could be 5 per server or 1 per server. Kindly udpate this point to" (NVIDIA T4 or latest series) 8GB to be configured on Day 1 as per bidder solution".	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
602	2	121	5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	3 x Gen3 slots all x16	Reuquest to change this clause to " 3 x Gen3 slots all x16/x8"	As per RFP
603	2	121	5.2.1.10. Functional & Technical Requirements for GPU Based Rack Servers (Video Analytics & FRS Servers)	3 x Gen3 slots all x16	Reuquest to change this clause to " 3 x Gen3 slots all x16/x8" for wider OEM participation. Justification - Every server OEM has different combination of x16 or x8 bus width PCIE slots.	As per RFP
604	2	121	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.	As per RFP
605	2	121	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.	Request to change this clause to " PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support or higher" for wider OEM participation.	As per RFP
606	2	121	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	The server should come with systems management software to provide update management, configuration management, patch management and virtualization management.	The server should come with systems management software to provide update management, configuration management, patch management and virtualization management.	As per RFP
607	2	121	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	The server should come with systems management software to provide update management, configuration management, patch management and virtualization management.	There is a separate dedicated software for VM management which are not provided as a part of Server Management system. Request to kindly update this point to" The server should come with systems management software to provide update management, configuration management and patch management ".	As per RFP
608	2	121	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.	Wol is typically supported on Intel Cards while with Converged technology, Server vendor uses their own designed card which does not offer this functionality. Request to update this point to" ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, MS Logo Certification, USB 2.0 Support"	As per RFP
609	2	121	5.2.1.9. Functional & Technical Requirements for Servers: (Blade Servers, GPU Servers. AAA servers and A.I./Training Server)	ACPI 2.0 Compliant, PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support.	Request to change this clause to " PCI 2.0 or higher Compliant, WOL Support, MS Logo Certification, USB 2.0 Support or higher"	As per RFP
610	2	122	Functional & Technical Requirements for AAA Server	General	There is two section for AAA specification(5.2.1.5 and 5.2.1.11).Requesting the clarity which one we should consider.	As per RFP



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611	2	125	Functional & Technical Requirements for AAA Server	Core product should have been available in the market for at least 4 years	3 year product in the market should also be allow	As per RFP
612	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	10 x PCIe 2.0/3.0 slots	10 x PCIe 2.0/3.0 slots	As per RFP
613	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	2x1G & 2x10G baseT ports	2x1G & 2x10G baseT ports	As per RFP
614	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	4x 32 GB RAM 2666 MT/s support up to 1500GB RAM, should have min. 16 DIMM slots	4x 32 GB RAM 2666 MT/s support up to 1500GB RAM, should have min. 16 DIMM slots	As per RFP
615	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	4x 32 GB RAM 2666 MT/s support up to 1500GB RAM, should have min. 16 DIMM slots	Being a Continuous learning server, current mentined Memory figures will slow down the performance. Request to update this point to" 8x 64 GB RAM 2666 MT/s support up to 1500GB RAM, should have min. 24 DIMM slots available with the system".	As per RFP
616	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server	Should support up to eight hard disk drives (SAS, SATA, nearline SAS SSD: SAS, SATA)	Continuous learning server might require storage scalability internal to the server depending upon the application type and future requirements. Also, there is no Drive form factor available as Nearline SAS SSD. Kindly update this point to" Should support up to 24 hard disk drives (SAS, SATA, SSD: SAS, SATA)	As per RFP
617	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server	Should be configured with 8nos. Of Nvidia V100 / A100 32Gb GPU	Request to change this clause to "Should be configured with 8nos. Of Nvidia V100 / A100 32Gb GPU with NVLink GPU support SXM2" Justification - NVIDIA NVLink in Tesla V100 delivers 2X higher throughput to unleash the highest application performance possible on a single server and is crucial element needed for AI training workloads.	As per RFP
618	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server	Should support upto 10 GPU's	Request to change this clause to "Should support upto 10 GPU's single slot or double slot" Justification - As an industry standard, all major server OEM's support max. 8 double-slot card i.e. NVIDIA Tesla V100 32GB asked in RFP whereas for more than 10 qty. only single slot cards such as NVIDIA Tesla T4 can be supported on high end training systems.	As per RFP
619	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server	Should be configured with 8nos. Of Nvidia V100 / A100 32Gb GPU	Should be configured with 8nos. Of Nvidia V100 / A100 32Gb GPU	As per RFP
620	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server	Should support up to eight hard disk drives (SAS, SATA, nearline SAS SSD: SAS, SATA)	Should support up to eight hard disk drives (SAS, SATA, nearline SAS SSD: SAS, SATA)	As per RFP
621	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server	Should support upto 10 GPU's	Should support upto 10 GPU's	As per RFP

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622	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server	Should support upto 10 GPU's	This much of GPU scalability per 4U server node is propreitory. Request to update this point to" Should support upto SXM2/NVLink based 8GPU's ".	As per RFP
623	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	2x1G & 2x10G baseT ports	With 8* GPU cards ,Bandwidth requirement for server connectivity should be large. Also, the network connectivity for Blade servers is Optical hence this Server should offer the similar ports. Request to update this point to" 8x10G SFP+ & 2x10G baseT ports".	As per RFP
624	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server	Should be configured with 8nos. Of Nvidia V100 / A100 32Gb GPU	With Deep learning or Continuous learning server, purpose built GPU servers offering SXM2 technology is highly recommended. Using this technology the same GPU cards are able to deliver twice the performance due to ultra fast Bandwidth lanes. Kindly update this point to" Should be configured with 8nos. Of SXM2/ NVLink Nvidia V100 / A100 32Gb GPU"	As per RFP
625	2	127	5.2.1.12. Functional & Technical Requirements for Continuous Learning Server A.I/Training Server	10 x PCIe 2.0/3.0 slots	With purpose built servers, all GPU's comes installed from factory and installed directly on PCI-e bus without using any PCI-e slots. Request to kindly update this point to" 4 x PCIe 2.0/3.0 slots".	As per RFP
626	2	128	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The blade chassis should be configured with Hot swap IP based KVM Switch for Management or KVM Management should be integrated in Remote Management Controller.	Different blade vendors has different architecture. Request to update this point to" The blade solution should be configured with IP based KVM functionality for Management or KVM Management should be integrated in Remote Management Controller".	As per RFP
627	2	128	Functional & Technical Requirements for Blade Chassis	Dual end-to-end redundant Network connectivity for each blade. The blade chassis should have at least 4 I/O Modules/ switch bays	Different blade vendors has different architecture. Vendors offering converged technology does not require separete Fabric modules for connectivity. Request to update this point to" Redundant Network connectivity for each blade. The blade chassis should have at least 2 I/O Modules/ switch bays".	As per RFP
628	2	128	Functional & Technical Requirements for Blade Chassis	Dual end-to-end redundant Network connectivity for each blade. The blade chassis should have at least 4 I/O Modules/ switch bays	Dual end-to-end redundant Network connectivity for each blade. The blade chassis should have at least 4 I/O Modules/ switch bays	As per RFP
629	2	128	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The blade chassis should be configured with Hot swap IP based KVM Switch for Management or KVM Management should be integrated in Remote Management Controller.	The blade chassis should be configured with Hot swap IP based KVM Switch for Management or KVM Management should be integrated in Remote Management Controller.	As per RFP
630	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The chassis should have a touch screen LCD /LEDdisplay	Few Blade chassis does not have touchscreen with them since with current generation solutions, entire management is done using a dedicated GUI on a Laptop/Desktop screen. Request to remove this point for wider participation.	As per RFP
631	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The Chassis should have redundant Ethernet switches, each switch should have 4 no. of 10Gb or better uplinks.	Request to change this clause to" The Chassis or blade solution should have redundant Ethernet switches, each switch should have 4 no. of 10Gb or better uplinks." Justification - Current RFP asks multiple blade chassis as per BoQ and all of they of them will be interconnected to reduce traffic latency. The 10G uplinks will be from aggregation switches across blade solution to external TOR switch.	As per RFP
632	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The chassis should be equipped for providing MAC & WWN address across the slots or chassis instead of individual Host Bus Adapter/NIC of the Blade. The solution provided must not have any single point of failure and must be configured in failover	Request to update this point for a more complete requirement for Ease of Management. Kindly update this point to" Solution should support templates to quickly make changes to the infrastructure w.r.t server BIOS version, MAC ID, I/O firmware version, WWPN, Adapter QoS, Management module firmware version, UUIDs, Server Boot Policies, KVM IPetc. The solution provided must not have any single point of failure and must be configured in redundancy".	As per RFP
633	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The chassis should be equipped for providing MAC & WWN address across the slots or chassis instead of individual Host Bus Adapter/NIC of the Blade. The solution provided must not have any single point of failure and must be configured in failover	The chassis should be equipped for providing MAC & WWN address across the slots or chassis instead of individual Host Bus Adapter/NIC of the Blade. The solution provided must not have any single point of failure and must be configured in failover	As per RFP
634	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The chassis should have a touch screen LCD /LEDdisplay	The chassis should have a touch screen LCD /LEDdisplay	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
635	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The Chassis should have redundant Ethernet switches, each switch should have 4 no. of 10Gb or better uplinks.	The Chassis should have redundant Ethernet switches, each switch should have 4 no. of 10Gb or better uplinks.	As per RFP
636	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The Chassis should have redundant FC switches, each switch should have 4 no. of 32Gbps or betetr FC uplinks to SAN	The Chassis should have redundant FC switches, each switch should have 4 no. of 32Gbps or betetr FC uplinks to SAN	As per RFP
637	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The Chassis should have redundant Ethernet switches, each switch should have 4 no. of 10Gb or better uplinks.	With converged architecture there is no requirement for separate ethernet & FC Switch. Request to update this point as" The Blade solution should have redundant Ethernet/Converged switches, each switch should have 4 no. of 10Gb SFP+ or better uplinks.	As per RFP
638	2	129	5.2.1.13. Functional & Technical Requirements for Blade Chassis	The Chassis should have redundant FC switches, each switch should have 4 no. of 32Gbps or betetr FC uplinks to SAN	With converged architecture there is no requirement for separate ethernet & FC Switch. Request to update this point as"The Blade solution should have redundant FC/ converged switches, each switch should have 4 no. of 32Gbps or better FC uplinks to SAN.	As per RFP
639	2	130	Functional & Technical Requirements for Scale Out Storage	Functional & technical requirements of Storage	Request authorities to clarify on secondary storage. Does bidder to accommodate the secondary within the same storage as scale out storage.	As per RFP
640	2	130	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	All video data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read and write operations.	All video data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read and write operations.	As per RFP
641	2	130	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	The scope of civil works shall include but not limited to the following: i. Interior design ii. Pest Control iii. Permanent walls and partitions (Fire rated) iv. Temporary removable Partitions (Fire rated) v. False Ceiling as per specifications vi. False Flooring as per specifications. vii. Thermal Insulation viii. Painting (Fire rated) ix. Doors (Fire rated) x. Furniture xi. Ramp xii. Glass partitions (fire rated) if required xiii. Any civil, masonry, trenching and fabrication works required for Electrical installation, Earthing, HVAC installation and other subsystems installations. xiv. Any other civil works required at site	Please clarify the following: 1) Civil activities will be on complete carpet area of ICCB Building ground floor, Floor-1, Floor-2, Floor-3, Floor-4 . All other floor's civil work is not in scope of the bidder. 2) We understand all of these civil activities will not be applicable to all rooms. Following rooms will only be covered by Bidder: i) Ground floor:-Genset Room, electrical room. ii) Floor-1:-Electrical and UPS room, Helpdesk, BMS room, storage room, access control room, media storage room, telecom room, NOC room, server room. iii) Floor-2:-Electrical and UPS room, NOC room, video room, telecom room iv) Floor-3:-Electrical and UPS room, video room, telecom room v) Floor-4:-BELTRON Surveillance centre.	As per RFP
642	2	130	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	The scale out storage must be configured with minimum 1 TB total , DRAM based cache/memory.	Since overall capacity requiriment is 10PiB usable capacity hence overall memory shall be aligned accordingly. Request you to change the clause to "The Scale-out storage must be configured with minimum 3TB total, DRAM Based Cache / memory". Otherwise vendor will configure 1TB memory only which can lead serious performance issues.	As per RFP
643	2	130	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	The scale out storage must be configured with minimum 1 TB total , DRAM based cache/memory.	We suggest to reduce the controller cache to 256 GB	As per RFP
644	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Scale-Out Storage operating system/filesystem should have distributed specialized Operating System//filesystem by OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third-party software	Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third party software	As per RFP
645	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Proposed Storage solution should be based on Appliance and not general purpose servers or software-define storage.	Almost all the scale out based storage solution in the industry is now based upon Software based Scale out storage only. Having appliance based scale-out solutions will restrict the participation to just 1-2 vendors. Also all appliance based solution internally uses General purpose Servers only. Considering it - would request to change the clause to " Proposed Storage solution should be based on Appliance or shall be software defined"	As per RFP
646	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Proposed Storage solution should be based on Applianceand not general purpose servers or software-define storage.	Kindly revise the clause as " Proposed Storage solution should be based on Appliance or shall be software defined"	As per RFP

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647	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Storage Should be Fully Symmetric and fully distributed Architecture written for Scale-Out Storage operations. Proposed Storage solution should be based on Appliance and not general purpose servers or software-define storage. Scale out storage should be configured with minimum 4 controllers of the same type. Over all storage cluster should be upgradable to min 2 x numbers of Storage controllers/Storage nodes/Drives, without any disruptions/downtime to production workflow for performance, capacity enhancement, software/firmware upgrades. The storage cluster should support linear scalability of performance and capacity. ie for every drive bay/drive added, performance should increase by the same amount till the maximum capacity of the storage Storage Controllers should processor have Intel processor as per OEM Design	Request you to kindly amend the statement as below Storage Should be Fully Symmetric /Assymmetric and fully distributed Architecture written for Scale-Out Storage operations for both file & block .	As per RFP
648	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Storage Should be Fully Symmetric and fully distributed Architecture written for Scale-Out Storage operations.	Storage Should be Fully Symmetric /Assymmetric and fully distributed Architecture written for Scale-Out Storage operations for both file & block .	As per RFP
649	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	3. Operating System Scale-Out Storage operating system/filesystem should have distributed specialized Operating System/filesystem by OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third-party software	Scale-Out Storage storage should have distributed specialized Operating System by OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third-party software	As per RFP
650	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	3. Operating System Scale-Out Storage operating system/filesystem should have distributed specialized Operating System/filesystem by OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third-party software	Scale-Out Storage storage should have distributed specialized Operating System by OEM(s), dedicated for serving data efficiently and customized for True Scale-Out Storage. Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third-party software Justification:- 'General purpose operating systems (like linux and windows) are open to virus and ransomware attacks. Therefore the storage should have a specialized operating system	As per RFP
651	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Storage cluster should have capability to support different kinds of disks tiers likes SSD, SAS, SATA/NL-SAS drives	SAS drives (Available in 10K and 15K) are almost dying out and all vendors are now qualifying their solutions with SSD and SATA /NL-SAS drives. Considering it - Would request to change the clause to "Storage cluster should have capability to support different kinds of disks tiers likes SSD, SATA/NL-SAS drives"	As per RFP
652	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	9. Protection Levels Protection level which can protect data against simultaneous 2/3 disks/controllers/nodes failures, without data unavailability and data loss	Protection level which can protect data against simultaneous 3 disks failures, without data unavailability and data loss	As per RFP
653	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	9. Protection Levels Protection level which can protect data against simultaneous 2/3 disks/controllers/nodes failures, without data unavailability and data loss	Protection level which can protect data against simultaneous 3 disks failures, without data unavailability and data loss Justification:- For such a large capacity storage system, it is critical to have multiple disk failure capability	As per RFP
654	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	The switch to be configured with minimum of 24 ports with 16 Gbps FC configuration backward compatible to 4/8.	Request to include scalability into the current switch. Also, only a single vendor supports the switch with 24 ports. Kindly update this point to "The switch to be configured with minimum of 24 ports with 16 Gbps FC configuration backward compatible to 4/8. Switch should be scalable to additional 8 ports for future requirements".	As per RFP
655	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	The switch to be configured with minimum of 24 ports with 16 Gbps FC configuration backward compatible to 4/8.	The switch to be configured with minimum of 24 ports with 16 Gbps FC configuration backward compatible to 4/8.	As per RFP
656	2	131	5.2.1.14. Functional & Technical Requirements for SAN Switch	Additional point to include	Additional point to include	As per RFP

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657	2	131	5.2.1.14. Functional & Technical Requirements for SAN Switch	Additional point to include	This feature will bring complete visibility into your infrastructure and will reduce risks and helps maintain optimum performance. It will also help in determining the cause of storage access issues: storage array, SAN, or host. Kindly update this point to " SAN Switch should provide end to end visibility of fibre channel SAN traffic. It should inspect I/O flow to bring out a unified view of the infrastructure irrespective of the architecture or vendor of storage arrays, servers or operating systems".	As per RFP
658	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Storage Should be Fully Symmetric /Assymetric and fully distributed clustered /federated Architecture written for Scale-Out Storage operations for both file & block . All storage nodes/controllers must be active for all Storage shares, contributing in performance and capacity of the system	As per the storage Industry there are different technologies available for scale out storage architecture, NetApp supports Assymetric distributed clustered architecture, hence we request you to allow assymetric access also. Since in VMS architecture we require both file & block architecture, so we request you to kindly ask for both file & block storage. We request you to remove " active controllers for all storage shares" as it makes the configuration proprietary to a particular OEM technology. NetApp offers active controllers contributing to a single file system.	As per RFP
659	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Entire data should automatically balance across proposed controllers/nodes within each tier without any administrative intervention, or requirement of third party software	We request to remove automatic load balancing as this proprietary and is not required for the solution asked, whenever any new controller/node will be added then while adding new controller data will be rebalanced by engineer and does not require and re balance after that, so automatic is unwarranted and is not needed.	As per RFP
660	2	131	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	All video data should be striped across all storage controllers in the proposed storage system, so that performance of all controllers can be utilized for all read and write operations.	We request to remove this point fully as this is proprietary term and is required for parallel or distributed file system which is not required for VMS solution. VMS clients don't access the data in parallel requests hence storing the data in parallel or distributed form will not give performance boost at client level.	As per RFP
661	2	132	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Should have capability to change the protection level onthe- fly without impacting the workflow of VMS	Since this storage is going to be used for Large video file storage hence Protection level change will cause entire re-distribution of data. Also You have clearly specified 2/3 disk failure / node failure in the RFP hence practically this clause is not needed and also restrictive from vendor perspective. Request you to delete this clause.	As per RFP
662	2	132	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	All cameras to be recorded at highest resolution, 25FPS, H.265 video compression for 30 days at 24x7 continuous. - Scale out storage should be configured with 10 PiB usable capacity, using equal to or less than 12TB / 16TB NL- SAS/SATA HDD. . In case of RAID based offerings are offered -Additional 10% usable space should be reserved, or 2/3 number of disks should be provided, as hot spares. - Offered scale out storage should be capable of providing a throughput of greater than 8GBps at 100% write on SMB/NFS or equivalent , for handling the camera feed and other workloads. Dimensioning tool output/ performance decelerations needs to be provided on OEM letterhead for the same	Storage should be the capability of using the hot spare area for data writes, without affecting VMS data flow, in case need arises. Offered scale out storage should be capable of providing a throughput of greater than 15GBps at 100% write on SMB2 or equivalent, for handling the camera feed and other workloads. Dimensioning tool output needs to be provided on OEM letterhead for the same	As per RFP
663	2	132	5.2.1.16. Functional & Technical Requirements for Unified Storage	Total Storage Capacity: All cameras to be recorded at highest resolution, 25FPS, H.265 video compression for 30 days at 24x7 continuous	Kindly provide the details for how many days data of other system for. Eg. ATCS, Red Light Violation Detection System, Environmental Sensors, Emergency Call Box, Speed Detection system and other elements covered under this project needs to be stored. This will help to prepare optimized solution from bidder side.	As per RFP
664	2	132	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Storage should be the capability of using the hot spare area for data writes, without affecting VMS data flow, in case need arises. Offered scale out storage should be capable of providing a throughput of greater than 15GBps at 100% write on SMB2 or equivalent, for handling the camera feed and other workloads. Dimensioning tool output needs to be provided on OEM letterhead for the same	We request you to remove this point fully as utilizing hot spare disks for data is not recommended , because hotspare disks are meant for redundancy and data protection, at any given point fo time if we start using hot spare disks as data disks then we are compromising the redundancy and data protection. also looking for 15 GBps performance at storage is not required because the cameras and VMS recording servers, NVRS can not not ooperate at that much performance, in VMS solution banndwidth from edge devices is always challenge so spending money ate centralized solution for high performance is not required. Also these points make the solution in favor of a particular OEM.	As per RFP
665	2	132	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	File Locking for Data protection from corruption while sharing files between UNIX and Windows users.	we Request to remove this point as File locking is required for parallel client access that is parallel file system, which is not the case here, edge systems including Recording server, camera, NVR do not operate in parallel environment. This is in favor of particular OEM.	As per RFP
666	2	133	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Storage System should have capability to load balance client connectivity across these multiple controllers so that all clients gets distributed across all existing controllers/nodes to avoid any performance hotspot.	Storage System should have capability to load balance client connectivity across these multiple controllers/drives so that all clients gets distributed across all existing controllers/nodes/drives to avoid any performance hotspot.	As per RFP

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667	2	133	5.2.1.16. Functional & Technical Requirements for Unified Storage	There should not be any downtime or migration activity required in the event it is needed to add additional capacity or additional performance to the storage system. - In the event of addition of storage controller/storage node to storage solution, existing data should be rebalanced across all nodes of storage controllers/storage nodes automatically. This auto balance should be done with low priority avoiding any impact to client performance. - Addition of storage controller/ storage nodes should not require any complicated configuration of new controller/node. It should be done easily, seamlessly and without having any impact to user access. - The storage file system shall not require metadata performance tuning. - The system must be able to support policy based tiering to different storage tiers with Storage sub-system.	In the event of addition of storage controller/storage node to storage solution, existing data should be rebalanced across all nodes of storage controllers/storage nodes automatically.	As per RFP
668	2	133	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage should have RAID levels support for RAID 6	or higher & equivalent	As per RFP
669	2	133	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage Array should be proposed with licenses for the entire capacity supported by the array from day1 for features such as Auto-Tiering, thin provisioning,, Point in time snapshot and restore, Sync and Async Replication for both Block and File Protocols, Data at Rest Encryption.	Please change this as " Storage Array should be proposed with licenses for the entire capacity supported by the array from day1 for features such as thin provisioning,, Point in time snapshot and restore, Sync and Async Replication for both Block and File Protocols, Data at Rest Encryption."	As per RFP
670	2	133	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage Array ( should be a purpose built appliance )should be unified storage with a single microcode / Operating system. Proposed Storage shall be the latest/enterprise generation storage from the respective OEM. The storage array must support block, file services and VVOL natively or by providing addon gateway/controllers in redundant configuration.	The storage array must support block, file services and VVOL natively or by providing addon gateway/controllers in redundant configuration	As per RFP
671	2	133	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The storage shall support FC Protocol, iSCSI and file protocols NFSv3, NFSv4, NFSv4.1; CIFS (SMB 1), SMB 2, SMB 3.0, SMB 3.02, and SMB 3.1.1; FTP and SFTP	FTP and SFTP, (SMB 1)	As per RFP
672	2	133	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The storage must be able to support atleast 300 SSD and 500 SAS/NL-SAS Disks.	Since Capacity asked is 100TB using SSD and 900TB using NL-SAS which can be easily serviced with 120 drives. Having support for 300 + 500 = 800 drives is very high and unnecessary cost. Request to modify the clause as - Storage Must be able to support at-least 500 Number of drives supporting both SSD and SAS /NL-SAS drives".	As per RFP
673	2	133	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Storage System should have capability to load balance client connectivity across these multiple controllers/drives so that all clients gets distributed across all existing controllers/nodes/drives to avoid any performance hotspot.	Load balancing of clients is required when the same data can be accessed by many end users thru same connectivity, which is not the case here, so we request to remove same. This makes the solution proprietary of a particular OEM.	As per RFP
674	2	133	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Operating system support RedHat Linux, Suse Linux, Windows , Unix Based operating systems like SUN solaris, HP Unix, IBM AIX	IBM AIX is Particular OEM OS and is not supported with open APIs, so we request to remove the same.	As per RFP
675	2	133	5.2.1.16. Functional & Technical Requirements for Unified Storage	The storage array must support block, file services and VVOL natively or by providing addon gateway/controllers in redundant configuration	Type of Storage System , Storage Array ( should be a purpose built appliance )should be unified storage with a single microcode / Operating system. Proposed Storage shall be the latest generation storage from the respective OEM.The storage array must support block, file services and VVOL natively or by providing addon gateway/controllers in redundant configuration	As per RFP
676	2	133	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage should have RAID levels support for RAID 1/0, 5 & 6 or equivalent	RAID Functionality, Storage should have RAID levels support for RAID 1/0, 5 & 6	As per RFP
677	2	134	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Scale out storage should be configured with minimum 4 controllers of the same type.	It should be written as Scale out storage should be configured with minimum 8 controllers of the same type. Justification:- for such a high stoarge capacity the number of controllers are very less its should be minimum 8 controller	As per RFP
678	2	134	5.2.1.15. Functional & Technical Requirements for Scale Out Storage	Scale out storage should be configured with minimum 4 controllers of the same type.	It should be written as Scale out storage should be configured with minimum 8 controllers of the same type.	As per RFP



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679	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage Parameters Description	Storage System should be supplied with below configuration across controllers:- a. 8 x 16 Gbps FC Ports b. 4x12Gbps SAS ports for backend disk connectivity	Considering the capacity requirement - this seems to be typo error. Our understanding is that these ports are required per controller. Please confirm?	As per RFP
680	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage OEM shall provide software-as-a-service cloud management	Kindly elobrate what is requested here	As per RFP
681	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage	SAN should support minimum 500 snapshots	Since snapshots are created for volumes hence we believe that you are looking for 500 Snapshots per volume? Please confirm?	As per RFP
682	2	134	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The storage shall support FC Protocol, iSCSI and file protocols NFSv3, NFSv4, NFSv4.1; CIFS (SMB 1), SMB 2, SMB 3.0, SMB 3.02, and SMB 3.1.1; FTP and SFTP	Please change the clause as " proposed storage shall support " FC/iSCSI/CIFS(SMB)/NFS. Bidder needs to include required license as per solution proposed"	As per RFP
683	2	134	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The Storage System shall support Synchronous & Asynchronous Replication for both Block .	Sentence is not completed. Since you have already asked in the RFP the support for Block, File and VVOL hence we believe that you are looking the replication for File, Block and VVOL. Please confirm?	As per RFP
684	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage	Proposed storage shall have atleast Dual active-active controllers with minimum 128 256 GB primary DRAM cache DRAM cache shall be protected with Cache destaging or battery backup.	Cache Memory, Proposed storage shall have atleast Dual active-active controllers with minimum 128 GB primary DRAM cache DRAM cache shall be protected with Cache destaging or battery backup.	As per RFP
685	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage	4 x 25 Gbps Ports. All 25GbE ports should be capable to deliver both iSCSI/NFS, CIFS/SMB/sFTP etc	Ports, Storage System should be supplied with below configuration across controllers:-a. 8 x 16 Gbps FC Ports or 8X8 Gbpsb. 4 x 25 Gbps Ports. All 25GbE ports should be capable to deliver both iSCSI/NFS, CIFS/SMB/sFTP etc. In case iSCSI and NAS protocols are served from different ports then 4x 25G iSCSI and 4x 25G NAS ports should be proposed.	As per RFP
686	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage management software should be configured with HTML5 / Java based graphical user interface and it should be configured with single interface for managing all BLOCK and NAS Protocols. The storage management software should display graphical depiction of storage hardware components with capability of tracking system and state information.	GUI Application, Storage management software should be configured with HTML5 based graphical user interface and it should be configured with single interface for managing all BLOCK and NAS Protocols. The storage management software should display graphical depiction of storage hardware components with capability of tracking system and state information.	As per RFP
687	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage	NAS must support FTP / SFTP access to File data/directory/File System. If this is not available then additional hardware with commercial FTP server with 250 concurrent users to be provided in redundancy.The NAS must support CAVA or equivalent feature	File System , Storage must support 64 bit file system and allow creating multiple NAS servers for tenant isolation with each file system scalable upto 128TB.If NAS is being provided as hardware module or gateway then it must be redundant.Each of the above hardware module or gateway must have 512GB DRAM Cache/MemoryEach file system must support multi-protocol access via SMB / NFS. Data must be able to access from client concurrently using these protocols. NAS must support FTP / SFTP access to File data/directory/File System. If this is not available then additional hardware with commercial FTP server with 250 concurrent users to be provided in redundancy.NAS must be able to leverage Active directory or LDAP for authentication purposes also.The File system or NAS must provide functionality for preventing modifying and deletion by user when accessed via SMB/NFS till the time lock has been set to date in future.The File system or NAS must support functionality for preventing deletion of file system having locked files by admin before the expiry of lock set to a date in future.NAS Servers must support IP Multi tenancy with each tenant has its own dedicated network namespace including VLAN domain, routing table, firewall, interfaces, DNS and more if required.or equivalent solution can be provided by providing additional software/hardwareThe NAS must support CAVA or equivalent feature	As per RFP
688	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage	Proposed storage solution should support snapshot creation using ROW (Redirect on write) algorithm.	Snapshots, SAN should support minimum 200 snapshots . Proposed storage solution should support snapshot creation using ROW (Redirect on write) algorithm. Storage arrays should have ability to use snapshot as writable volume. Proposed system should support snapshot scheduler. Proposed storage should allow snapshot replication with different retention for source and destination.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
689	2	134	5.2.1.16. Functional & Technical Requirements for Unified Storage	FTP and SFTP, (SMB 1)	Protocol Support , The storage shall support FC Protocol, iSCSI and file protocols NFSv3, NFSv4, NFSv4.1; CIFS (SMB 1), SMB 2, SMB 3.0, SMB 3.02, and SMB 3.1.1; FTP and SFTP	As per RFP
690	2	135	Functional & Technical Requirements for Unified Storage	dashboard that provides monitoring and reporting multiple storage system, VMware environment	VMWARE monitoring should not be clubbed with storage monitoring	As per RFP
691	2	135	Functional & Technical Requirements for Backup Appliance	Functional & technical requirements of Backup Application	Request authorities to elaborate on below requirements of backup such as: - Backup retention policy, - Historical & transactional data availability and - Tentative size of data to be backedup at DC level.	As per RFP
692	2	135	Functional & Technical Requirements for Backup Appliance	Backup Solution should also have configurable ReST API support for management, administration and reporting on backup infrastructure via custom applications and out of box integration with VMWare vRealize Automation for complete orchestration.	Please remove this clause as it specific to single OEM.	As per RFP
693	2	135	Functional & Technical Requirements for Backup Appliance	Bandwidth management prevents unpredictable network status	Pls. amend as " Bandwidth management prevents unpredictable network status or GUI based dashboard"	As per RFP
694	2	135	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage OEM shall provide software-as-a-service cloud management dashboard that provides monitoring and reporting multiple storage system, VMware environment and SAN switches. Required on-prem software and hardware should be included in the solution. Cloud based software should be accessible from any internet connected device with mobile application support for iOS and Android.	Predictive Analytics , Storage OEM shall provide software-as-a-service cloud management dashboard that provides monitoring and reporting multiple storage system, VMware environment and SAN switches. Required on-prem software and hardware should be included in the solution. Cloud based software should be accessible from any internet connected device with mobile application support for iOS and Android.The tool should provide comprehensive monitoring of system health, performance, capacity, configurations, and on-array protection metrics. Tool shall have machine learning and predictive analytic measurements by using the metrics to improve capacity planning and fix problems before they disrupt business. Tool shall provide a comprehensive and proactive health score per array to ensure that each array provides the optimal foundation for running business data with the highest availability.	As per RFP
695	2	135	5.2.1.16. Functional & Technical Requirements for Unified Storage	The partner must have office in India since last 10 years and must be having 100 support/services resources on direct payroll and OEM should have local support offices in India	Business Continuity, The partner must have office in India since last 10 years and must be having 100 support/services resources on direct payroll and OEM should have local support offices in India	As per RFP
696	2	135	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage and Backup solution should be from same OEM	Business Continuity, Storage and Backup solution should be from same OEM	As per RFP
697	2	135	5.2.1.16. Functional & Technical Requirements for Unified Storage	Storage software, hardware and support all should come from same and single OEM	Business Continuity, Storage software, hardware and support all should come from same and single OEM	As per RFP
698	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed disk appliance should be offered with battery backed up RAM / NVRAM for protection against data loss in power failure scenario and continuous automated file system check to ensure data integrity.	Storage provide battery protected Cache	As per RFP
699	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed disk appliance should be offered with battery backed up RAM / NVRAM for protection against data loss in power failure scenario and continuous automated file system check to ensure data integrity. Bidder should provide 150TB capacity based licenses. SI need to provide backup solution on the offered IT Infra stack from single OEM for backup software & purpose built backup appliance.	Storage provide battery protected Cache 150 TB Instance based licenses	As per RFP
700	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed appliance should be offered with Multi-Tenancy features which provides a separate logical space for each tenant user while maintaining a global deduplication across data from all tenant users.	Please modify this as "Proposed appliance should be offered with Multi-Tenancy features which provides a separate logical space for each tenant user with deduplication". Having global de-duplication across tenants defeats the purpose of multi-tenancy.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
701	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed appliance should support retention lock (WORM) feature which ensures that no data is deleted accidentally and support for point-in-time copies of a LUN or volumes with minimal performance impact.	This functionality is primarily offered by Backup application hence request to change this clause as "Proposed appliance / Backup application should support retention lock / WORM feature which ensures that no data is deleted accidentally and support for point-in-time copies / Multiple copies of a LUN or volumes or backup data with minimal performance impact.	As per RFP
702	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed appliance should Support Enterprise Applications and Database Backups without integration with Backup Software, for better visibility of Backups to Application and database Owners, thus ensuring faster and direct recovery on application/database level. This integration should be available for Oracle, SAP, SAP HANA, DB2, MS SQL, Hadoop, MongoDB, Cassandra etc.	Again this will be controlled by Backup applicaiton hence Please change this clause as "Proposed appliance should Support Enterprise Applications and Database Backups with or without integration with Backup Software, for better visibility of Backups to Application and database Owners, thus ensuring faster and direct recovery on application/database level. This integration should be available for Oracle, SAP, SAP HANA, DB2, MS SQL, Hadoop etc."	As per RFP
703	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed appliance should support 128 bit AES encryption for data at rest and data-in-flight during replication. It should offer internal and external key management for encryption.	Please remove external key management as that is completely separate solution and not falls under backup appliance. / or change the offer word with "Support"	As per RFP
704	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed appliance should be offered RAID-6 with SAS/SATA/NL-SAS disk drives along with hot-spare disks in the ratio of 15:1 or better.	Please modify this as " Proposed appliance should be offered RAID-6 with SAS/SATA/NL-SAS disk drives along with hot-spare disks" Different OEMs uses different combination of RAID	As per RFP
705	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed appliance should support global and inline data duplication using automated variable block length deduplication technology.	Please change this " Proposed appliance should support inline data duplication using automated variable block length deduplication technology". Since in the previous clause of RFP - You have already asked mulitple protocols like NFS, CFS, FC, OST etc. and mixing all of them into a common global pool will unnecessary increase the overhead and also becomes vendor restrictive,	As per RFP
706	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed appliance should be offered with protocols like VTL/ OST/CIFS and NFS. All of the protocols should be available to use concurrently with global deduplication for data ingested across all of them.	Please change the clause as "Proposed appliance should be offered with protocols like VTL/ OST/CIFS and NFS. All of the protocols should be available to use concurrently with deduplication for data ingested". Global de-duplication is again used which is vendor restrictive without any advantage.	As per RFP
707	2	136	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed appliance should have the ability to perform different backup, restore, replication jobs simultaneously and Must supports communications and data transfers through 8GB SAN, 10 Gb & 1 Gb ethernet LAN over copper and SFP+. The proposed backup appliance should be offered with min. 2 x 1Gbps NIC, 4 x 10Gbps NIC and 4 x 16Gbps FC ports and should support redundant controller for high availability of appliance in future.	Please change this clause as "Proposed appliance should have the ability to perform different backup, restore, replication jobs simultaneously and Must supports communications and data transfers through 8GB SAN, 10 Gb & 1 Gb ethernet LAN over copper and SFP+. The proposed backup appliance should be offered with min. 2 x 1Gbps NIC, 4 x 10Gbps NIC and 4 x 16Gbps FC ports" and should support redundancy of backp disks for high availability.	As per RFP
708	2	137	Functional & Technical Requirements for Backup Appliance	Bidder should provide 150TB capacity based licenses. SI need to provide backup solution on the offered IT Infra stack from single OEM for backup software & purpose built backup appliance.	150 TB Instance based licenses	As per RFP
709	2	137	Functional & Technical Requirements for Backup Appliance	Bidder should provide 150TB capacity based licenses. SI need to provide backup solution on the offered IT Infra stack from single OEM for backup software & purpose built backup appliance.	Please remove " SI need to provide backup solution on the offered IT Infra stack from single OEM for backup software & purpose built backup appliance." Justification - This clause restricts participation of market leading backup SW vendors like Veeam and Cohesity with no HW appliance offering. These vendors have certified and tested their platform with all major storage vendors to mitigate any concern of integration.	As per RFP
710	2	137	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Must have Agent/Modules for online backup of applications and databases such as MS SQL, Oracle, Exchange, Lotus, DB2, Informix, Sybase, Sharepoint, Meditech and SAP. Must support NAS and storage array based snapshot backup for off host zero downtime and zero load on the primary backup client with wizard based configuration.	Justification: Meditech is not a general application/database but propriety EHR application for use in specific Hospital solutions.	As per RFP
711	2	138	Functional & Technical Requirements for Backup Appliance	Backup Solution should also have configurable ReST API support for management, administration and reporting on backup infrastructure via custom applications and out of box integration with VMWare vRealize Automation for complete orchestration.	Justification: vRA is not required/available in the solution.	As per RFP
712	2	138	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed backup software should be in leader's quadrant of 2017 Gartner report for Enterprise Backup software and recovery solutions.	Justification: To allow more vendor participation.	As per RFP

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713	2	138	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed backup software should be in leader's quadrant of 2017 Gartner report for Enterprise Backup software and recovery solutions.	Please remove this clause	As per RFP
714	2	138	5.2.1.17. Functional & Technical Requirements for Backup Appliance	Proposed backup software should be in leader's quadrant of 2017 Gartner report for Enterprise Backup software and recovery solutions.	Please remove this clause for wider OEM participation.	As per RFP
715	2	138	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The proposed backup solution should provide search capability from a web portal to allow search for a single file from complete backup store.	Change Requested : Point to be deleted.	As per RFP
716	2	138	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The proposed backup solution should provide search capability from a web portal to allow search for a single file from complete backup store.	Justification:	As per RFP
717	2	139	5.2.1.16. Functional & Technical Requirements for Unified Storage	Use of Source and Target Based De-duplication for Backups. In order to improve the backup performance and reduce the disk footprint for storing backup data, the disk appliance solution proposed by the Bidder must support inline global de-duplication and must integrate with the backup software to facilitate client direct backups to the backup disk with source based de-duplication to reduce data transfer over IP and FC Networks.	Please modify this as "Use of Source and Target Based De-duplication for Backups. In order to improve the backup performance and reduce the disk footprint for storing backup data, the disk appliance solution proposed by the Bidder must support inline de-duplication and must integrate with the backup software to facilitate client direct backups to the backup disk with source based de-duplication to reduce data transfer over IP and FC Networks."	As per RFP
718	2	139	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should have Flow based QoS, DiffServ, port based QoS, WRR/SDWRR, strict queue scheduling or equivalent	Pls. amend as "Should have Flow based QoS, DiffServ, port based QoS, WRR/SDWRR/SP/DSCP, strict queue scheduling or equivalent"	As per RFP
719	2	139	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should have Flow based QoS, DiffServ, port based QoS, WRR/SDWRR, strict queue scheduling or equivalent	Should have Flow/ACL based QoS, DiffServ, port based QoS, WRR/SDWRR, strict queue scheduling or equivalent	As per RFP
720	2	139	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should have Flow based QoS, DiffServ, port based QoS, WRR/WDRR, strict queue scheduling	Should have Flow/ACL based QoS, DiffServ, port based QoS, WRR/WDRR, strict queue scheduling	As per RFP
721	2	139	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should support UDLD, Jumbo frame 9K	Pls. amend as "Should support UDLD or equivalent, Jumbo frame 9K"	As per RFP
722	2	139	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should support UDLD, Jumbo frame 9K	Should support UDLD/BFD, Jumbo frame 9K	As per RFP
723	2	139	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should be able to support stacking with 40Gbps or better stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single IP management (stacking port should be dedicated stacking port )	20 Gbps stacking bandwidth is sufficient to synchronize the configuration between cluster switch. Pls. amend as "Should be able to support stacking with 20Gbps or better stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single IP management (stacking port should be dedicated stacking port )" )	As per RFP
724	2	139	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should be able to support stacking with 40Gbps or better stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single IP management (stacking port should be dedicated stacking port )	Should be able to support stacking with 25/40Gbps or better stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single/individual IP management (stacking port should be dedicated/shared stacking port )	As per RFP
725	2	139	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should have minimum 16000 MAC address entries, minimum 500 VLANs.	At field size not required to create 3 to 4 VLANs so kindly amend as "Should have minimum 16000 MAC address entries, minimum 256 VLANs."	As per RFP
726	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Switch should have Static routing and RIP feature from day one.	For Better integration Hence Change Request "Switch should have Static routing , RIP , OSPF, 802.1AE feature from day one.	As per RFP

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727	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Switch should have Static routing and RIP feature from day one.	Switch should have Static routing and RIP feature from day one.	As per RFP
728	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should support STP, MSTP, minimum 4 hardware queues per port, SP queuing or equivalent, LLDP-MED.	Should support STP, MSTP, minimum 4 hardware queues per port, SP queuing or equivalent, LLDP-MED/LLDP.	As per RFP
729	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should operate at 220VAC ~50Hz. Switch Should support internal RPS (Redundant power supply)	RPS is not required at field level due to unavailability of dual UPS power supply source so pls. amend as " Should operate at 220VAC ~50Hz. Switch Should support internal power supply".	As per RFP
730	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should be RoHS/REACH, 802.3az EEE compliance. The switch should be EAL/NDPP/NDcPP/FIPS certified	Pls. amend as " Should be RoHS/REACH, 802.3az EEE compliance. The switch should be EAL/NDPP/NDcPP/FIPS/ISO certified"	As per RFP
731	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should be RoHS/REACH, 802.3az EEE compliance. The switch should be EAL/NDPP/NDcPP/FIPS certified	Pls. amend as "Should be RoHS/REACH, 802.3az EEE compliance. The switch should be EAL/NDPP/NDcPP/FIPS/ISO certified"	As per RFP
732	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Should be RoHS/REACH, 802.3az EEE compliance. The switch should be EAL/NDPP/NDcPP/FIPS certified	Should be RoHS/REACH, 802.3az/802.3at EEE compliance. The switch should be EAL/NDPP/NDcPP/FIPS certified	As per RFP
733	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Sflow/netflow, captive portal	Change Request "Sflow/netflow". Request to remove Captive portal is not function of switch	As per RFP
734	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Sflow/netflow, captive portal	Kindly revise the clause as "Sflow/netflow". As captive portal is not the function of the switches.	As per RFP
735	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Shall be 1U/2U Rack Mountable. Should have required accessories for rack mounting should have internal redundant power supply from day 1	Redundnat power supply is not required at field level due to there should have unavailable of dual UPS input power supply from dual source for each switch. Pls. amend as "Shall be 1U/2U Rack Mountable. Should have required accessories for rack mounting should have internal power supply from day 1".	As per RFP
736	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Sflow/netflow, captive portal	Sflow/netflow, captive portal	As per RFP
737	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Sflow/netflow, captive portal	Sflow/netflow, captive portal/802.1x auth	As per RFP
738	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Switch should have 1GB RAM for its smooth operations	Every OEM have different RAM size as per architecture, ASIC and firmware etc required. Pls. amend as " Switch should have 1GB RAM or as required by switch architectures for its smooth operations"	As per RFP
739	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Switch should have 1GB RAM for its smooth operations	Higher Ram and Flash ensure smooth operation of switch at time multi-service use. Change Request "Switch should have 2 GB RAM for its smooth operations"	As per RFP
740	2	140	5.2.1.18. Functional & Technical Requirements for Aggregation Switches	Switch should have 1GB RAM for its smooth operations	Switch should have 1GB RAM for its smooth operations	As per RFP

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741	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Should have 24x 1gig Fiber SFP ports, 4 x SFP+ ports. Switch should support 1gig Rj45, 1gig LX, 1 gig SX, 10gig SX, 10gig LX. Switch Should be populated with 24 x 1gig LX transceivers and 4 x 10Gig LR.	Request to change this clause to "Should have 24x 1/10 gig Fiber SFP+ ports.Switch should support 1gig Rj45, 1gig LX, 1 gig SX, 10gig SX, 10gig LX. Switch Should be populated with 20 x 1gig LX transceivers and 4 x 10Gig LR".24x1/10G is standard hardware form factor and is available with all the OEM's.Switch should be ready with 10G in all the ports for better scalability and ROI.Request to relax So that all the mentioned OEM can participate in this project.	As per RFP
742	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Should have 24x 1gig Fiber SFP ports, 4 x SFP+ ports. Switch should support 1gig Rj45, 1gig LX, 1 gig SX, 10gig SX, 10gig LX. Switch Should be populated with 24 x 1gig LX transceivers and 4 x 10Gig LR.	Should have 20x 1gig Fiber SFP ports, 4 x SFP+ ports. Switch should support 1gig Rj45, 1gig LX, 1 gig SX, 10gig SX, 10gig LX. Switch Should be populated with 24 x 1gig LX transceivers and 4 x 10Gig LR.	As per RFP
743	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Switch should have Layer 3 features Static routing, OSPF, BGP,PBR, VRRP for both IPv4 and IPv6 feature from day one.	Switch should have Layer 3 features Static routing, OSPF, BGP,PBR, VRRP for both IPv4 and IPv6 feature from day one.	As per RFP
744	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Switch should have Layer 3 features Static routing, OSPF, BGP,PBR, VRRP for both IPv4 and IPv6 feature from day one.	To ensure ROI and Future use . Kindly change "Switch should have Layer 3 features Static routing, OSPF, BGP,PBR, VRRP, 802.1AE, MPLS for both IPv4 and IPv6 feature from day one."	As per RFP
745	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Should be able to support stacking with 80Gbps stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single IP management	Clarification We understand there should be dedicated stacking port on and above asked port in S/N 2	As per RFP
746	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Should be able to support stacking with 80Gbps stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single IP management	Request to change this clause to "Should be able to support stacking with 80Gbps stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 2 switch in one stack for single IP management."	As per RFP
747	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Should be able to support stacking with 80Gbps stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single IP management	Should be able to support stacking with 80Gbps stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single IP management	As per RFP
748	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Should be able to support stacking with 80Gbps stack bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single IP management	Should be able to support stacking with 80Gbps stack/MLAG bandwidth. Cables & stacking ports to be provided from day one and should support minimum 4 switch in one stack for single/individual IP management	As per RFP
749	2	140	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Switch should have PIM-SM/PIM-SSM/DM and VRF-lite from day one	Request to change this clause to "Switch should have PIM-SM/PIM-SSM/PIM-DM from day one".VRF is required in Core layer,request to please modify this for wider OEM participation	As per RFP
750	2	141	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Should support STP, MSTP, minimum 8 hardware queues per port, SP queuing or equivalent, LLDP-MED.	Should support STP, MSTP, minimum 8 hardware queues per port, SP queuing or equivalent, LLDP-MED/LLDP.	As per RFP
751	2	141	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Switch should have 2GB RAM for its smooth operations	Higher Ram and Flash ensure smooth operation of switch at time multi-service use. Change Request "Switch should have 8 GB RAM for its smooth operations"	As per RFP
752	2	141	5.2.1.19. Functional & Technical Requirements for 24 Port L3 Switch	Switch should have 2GB RAM for its smooth operations	Switch should have 2GB RAM for its smooth operations	As per RFP
753	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	Button: Reset button	Button: Reset button	As per RFP
754	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	Button: Reset button	For Wider participation requesting to change the clause. Change Request "Button: Reset button / hole"	As per RFP
755	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	Button: Reset button	Kindly revise the clause as "Button: Reset button / hole"	As per RFP



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756	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	Button: Reset button	Specific to vendor pls. remove the same.	As per RFP
757	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Works with Industrial network management software	Request to mention the Network management software which will be used to manage the same & the same should work on industry standard protocols	As per RFP
758	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IPv6 Ready logo awarded	IPv6 Ready logo awarded	As per RFP
759	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IPv6 Ready logo awarded	Newer product take time IPv6 Logo Certificate . Hence Request to change "IPv6 Ready"	As per RFP
760	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IPv6 Ready logo awarded	Newer product take time IPv6 Logo Certificate . Hence Request to change "IPv6 Ready"	As per RFP
761	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IPv6 Ready logo awarded	Pls. remove this clause.	As per RFP
762	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IPv6 Ready logo awarded	Requested to make it IPv6 in order to allow major OEM to bid	As per RFP
763	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	IPv6 Ready logo awarded	Whether IPv6 ready logo mandatory for the products to be offered as these are international standards and may not be readily available with local manufacturers, who might have applied for the certification, but not received owing to COVID-19 related delays and backlogs ? Can instead a certification from the OEM in-house LABs confirming their application for IPv6 could be considered in lieu of the certificate ?	As per RFP
764	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	8 IEEE 802.3af and IEEE 802.3at PoE+ standard ports • 190 watt output	Request to change it to 150W, which is more than enough for 8 port switch	As per RFP
765	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	IEEE 1588 PTPV2(Precision Time Protocol) for precise time synchronization of networks	Pls. amend as " IEEE 1588 PTPV2(Precision Time Protocol) or NTP/SNTP for precise time synchronization of networks".	As per RFP
766	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	IEEE 1588 PTPV2(Precision Time Protocol) for precise time synchronization of networks	PTP is generally used in applications requiring micro-second level time sync like mobility. Request to confirm the use case for the same in Rugged PoE Switches. Ideally for Surveillance and Wifi networks, NTP would be enough.	As per RFP
767	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	Ethernet/IP, PROFINET, and Modbus/TCP protocols for device management and monitoring	Ethernet/IP, PROFINET, and Modbus/TCP protocols are mostly out dated and currently not an industry practice, Request to share specific need for the same or delete the clause	As per RFP
768	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	Ethernet/IP, PROFINET, and Modbus/TCP protocols for device management and monitoring	Pls. amend as "Ethernet/IP/PROFINET/Modbus/TCP protocols for device management and monitoring".	As per RFP
769	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	Ethernet/IP, PROFINET, and Modbus/TCP protocols for device management and monitoring	PROFINET / Modbus is being used for industrial automation applications involving PLC controller and End Device. Kindly confirm the use case. Ideally for surveillance and wifi systems, this is not being used. Kindly clarify.	As per RFP
770	2	141	Functional & Technical Requirements for PoE Ruggedized Switches	Ethernet/IP, PROFINET, and Modbus/TCP protocols for device management and monitoring	Request you to remove PROFINET and Modbus Protocol as it is not used in this project solution or don't have any use case. Hence Request you to consider the following changes. Ethernet/IP/TCP protocols for device management and monitoring	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
771	2	141	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	PROFINET	Requested to make ETHERNET/ PROFINET in field switch in order to allow major Indian OEM to bid.	As per RFP
772	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols	Both IGMP and GMRP perform same function. Most of the OEM support GARP/GVRP. Hence should be allow as GMRP/GARP/GVRP in order to have maximum participation.	As per RFP
773	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols	Both IGMP and GMRP perform same function. Most of the OEM support GARP/GVRP. Hence should be allow as GMRP/GARP/GVRP in order to have maximum participation.	As per RFP
774	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols	For Wider participation requesting to kindly change. Change Request "IGMP snooping / GMRP for filtering multicast traffic from industrial Ethernet protocols"	As per RFP
775	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols	GMRP is an old protocol and is being replaced by MVRP, which is the latest standard. Kindly confirm whether MVRP can be used as an alternative.	As per RFP
776	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols	IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols	As per RFP
777	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP snooping and GMRP for filtering multicast traffic from industrial Ethernet protocols	Pls. amend as " IGMP snooping and GMRP/GVRP/MVRP or equivlanat for filtering multicast traffic from industrial Ethernet protocols".	As per RFP
778	2	142	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Multi-port mirroring for online debugging	Pls. amend as " Multi-port mirroring for online debugging or port mirroring".	As per RFP
779	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	Automatic warning by exception through email, relay output	Automatic warning by exception through email can be achieved through nms , relay output can be achieved by Camera . In Switch this function don't have direct use case in this solution, Hence request you to remove this functions	As per RFP
780	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	Automatic warning by exception through email, relay output	Pls. amend as " Automatic warning by exception through email/ relay output/SNMP/Syslog/Monitoring system".	As per RFP
781	2	142	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Line-swap fast recovery	Request to detail the clause as its not clear on the requirement	As per RFP
782	2	142	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Line Swap fast Recovery	This feature is proprietry feature to one particular. Hence should be removed.	As per RFP
783	2	142	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Line-swap fast recovery	This feature is specific to particular OEM only. Request to either remove the clause or change the clause to "Line-swap fast recovery or equivalent"	As per RFP
784	2	142	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Line-swap fast recovery	This function is specific to single OEM Switches, Request you to remove this function	As per RFP
785	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	Configurable by web browser, USB-serial console	As we understand, The console port on the switch would remain RJ45 type. The console cable can connect to this console using serial-USB adapter cable. Please confirm whether our understanding is correct or not ?	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
786	2	142	Functional & Technical Requirements for PoE Ruggedized Switches	Configurable by web browser, USB-serial console	Pls. amend as " Configurable by web browser, USB/serial console"	As per RFP
787	2	142	6.3. Traffic Violations and Enforcement System	Works with Industrial network management software	Kindly provide the protocols that would be used to connect to Industrial management software ?	As per RFP
788	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Console Port: USB-serial console Storage Port: USB storage Reset Button	Major OEM did not have all type of ports in field switch .. Requested to make it "Console Port/ Storage Port/ Reset Button"	As per RFP
789	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Construction water and Construction power	Please confirm that power and water as required for construction during the implementation and O&M period shall be provided to SI free of cost by Authority.	As per RFP
790	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Console Port: USB-serial console Storage Port: USB storage	Request you to consider USB-Serial/RJ-45 Console Port	As per RFP
791	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Console Port: USB-serial console Storage Port: USB storage	Specific to vendor pls. amend as " Console Port: USB/serial console Storage Port: USB storage or console ports.	As per RFP
792	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Console Port: USB-serial console Storage Port: USB storage	USB storage ports are provided only by few OEMs in such category of small switch. Kindly confirm whether network RJ45/SFP based ports can be used to tranfer data/files to switch using SFTP/TFTP etc as an alternative.	As per RFP
793	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Alarm Contact 1 relay outputs with current carrying capacity of 1 A @ 24 VDC	Alarm output is available in Cameras , its not useful functions for Switches in Smart city applications, It support specific OEM to qualify, Hence request you to remove	As per RFP
794	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Alarm Contact 1 relay outputs with current carrying capacity of 1 A @ 24 VDC	Kindly confirm whether switch alarm forwarding be done over Ethernet/IP ports towards centralized EMS/NMS as an alternative ?	As per RFP
795	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Jumbo Frame Size: 9.6 KB	For Wider participation requesting to change the clause. Change Request "Jumbo Frame Size: 8996 or higher"	As per RFP
796	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Jumbo Frame Size: 9.6 KB	Jumbo Frame Size: 9.6 KB	As per RFP
797	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Jumbo Frame Size: 9.6 KB	Specific to Vendor, Pls. amend as "Jumbo Frame Size: 9KB"	As per RFP
798	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNMP, SMTP,RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP,PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588, IPv6, NTP Server/Client	As explained earlier GMRP, RARP and PROFINET would make it restrictive and would not allow major OEM to participate. Requested to remove it.	As per RFP
799	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNMP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP, PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588, IPv6, NTP Server/Client	EtherNet/IP, PROFINET, Modbus/TCP, are mostly out dated and currently not an industry practice, Request to share specific need for the same or delete the clause	As per RFP
800	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNMP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, Ethernet/IP, PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588, IPv6, NTP Server/Client	In field switch GMRP, GVRP, RARR, Profinet functions not required , Hence request you to remove, These features together supporting Single OEM	As per RFP

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801	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNTP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP, PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588, IPv6, NTP Server/Client	Pls. amend as " IGMPv1/v2/v3/GMRP/GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNTP, SMTP, ARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP/ PROFINET/Modbus/TCP, SNMP Inform, LLDP, IEEE 1588/NTP IPv6/NTP Server/Client"	As per RFP
802	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNTP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP, PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588, IPv6, NTP Server/Client	RARP is an old protocol used for IP assignment. DHCP being used now for IP assignment. Kindly remove the same as DHCP is already being asked.	As per RFP
803	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, DHCP Option 66/67/82, BootP, TFTP, SNTP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, SSH, Syslog, EtherNet/IP, PROFINET, Modbus/TCP, SNMP Inform, LLDP, IEEE 1588, IPv6, NTP Server/Client	SMTP protocol being used by the centralized NMS/EMS rather than the PoE Switch itself. Kindly remove the SMTP clause.	As per RFP
804	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9	Pls. amend as" MIB-II, Ethernet-Like MIB, P-BRIDGE MIB/Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9".	As per RFP
805	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q- BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9	Requested to remove "MIB-II, Ethernet- Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB" as having so many criteria for MIB makes it restrictive.	As per RFP
806	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9	Requested to remove "MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB" as having so many criteria for MIB makes it restrictive.	As per RFP
807	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP Groups 2048	2048 IGMP Groups are too High as the Edge Devices are limited to products in single Device or Single Ring, Hence request you to change to 1024 groups IGMP Groups 1024	As per RFP
808	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP groups 2048	For a switch of this small scale, usually 512 IGMP entries are sufficient. Kindly change the IGMP groups requirement to 512.	As per RFP
809	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP Groups 2048	For Wider participation requesting to change the clause. Change Request "IGMP Group 1000"	As per RFP
810	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP Groups 2048	IGMP Groups 2048	As per RFP
811	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP Groups 2048	Kindly revise the clause as "Min IGMP Group 1000"	As per RFP
812	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	IGMP Groups 2048	Specific to Vendor, Pls. amend as "IGMP Groups 1000"	As per RFP
813	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	LED Indicators: PWR1, PWR2, FAULT, STATE, 10/100/1000M, MSTR/ HEAD, CPLR/TAIL	Requested to remove "MSTR/HEAD, CPLR/TAIL" as they are akin to one particular OEM	As per RFP
814	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	LED Indicators: PWR1, PWR2, FAULT, STATE, 10/100/1000M, MSTR/ HEAD, CPLR/TAIL	specific to vendor pls. amend as " LED Indicators: PWR1, PWR2, FAULT/STATE/10/100/1000M/ MSTR/ HEAD/CPLR/TAIL/Alarm"	As per RFP
815	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Digital Inputs: Digital Inputs: 1 input with the same ground, but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA	Digital inputs is available in Cameras , its not useful functions for Switches in Smart city applications, It support specific OEM to qualify, Hence request you to remove	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
816	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Digital Inputs: Digital Inputs: 1 input with the same ground, but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA	Digital Inputs: Digital Inputs: 1 input with the same ground, but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA	As per RFP
817	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Digital Inputs: Digital Inputs: 1 input with the same ground, "but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA"	Requested to remove "but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA" as it seem to have no effect on functionality of Switch. However it terms of OEM it would make it restrictive.	As per RFP
818	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Digital Inputs: Digital Inputs: 1 input with the same ground, "but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA"	Requested to remove "but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA" as it seem to have no effect on functionality of Switch. However it terms of OEM it would make it restrictive.	As per RFP
819	2	143	Functional & Technical Requirements for PoE Ruggedized Switches	Digital Inputs: Digital Inputs: 1 input with the same ground, but electrically isolated from the electronics. • +13 to +30 V for state "1" • -30 to +3 V for state "0" • Max. input current: 8 mA	Specific to vendor pls. remove the same	As per RFP
820	2	143	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Overload Current Protection	Pls. amend as "Overload Current Protection or Transient Protection- >15K Watts peak".	As per RFP
821	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Standard & Certification	Requested to remove "Rail Traffic: EN 50121-4 Certification" in order to ensure maximum participation	As per RFP
822	2	144	Functional & Technical Requirements for PoE Ruggedized Switches	CPR (Class: B2ca-s1a, d1,a1)	It is specific to one or Two OEM, Hence Request you to Remove	As per RFP
823	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Reverse Polarity Protection	Kindly remove this clause for wider participation	As per RFP
824	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Reverse Polarity Protection	Pls. amend as " Reverse Polarity Protection or Reverse Power Protection"	As per RFP
825	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Reverse Polarity Protection	Reverse Polarity Protection	As per RFP
826	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Reverse Polarity Protection	This is OEM specific, requesting to remove the same	As per RFP
827	2	144	Functional & Technical Requirements for PoE Ruggedized Switches	Housing: Metal, IP30 protection	Pls. amend as " Housing: Metal or IP30 protection"	Modified as: Housing: Metal or IP30 protection (Refer <b>Corrigendum-4</b> ))
828	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	MTBF : More than 300,000 hrs	Pls. amend as "MTBF : More than 300,000 hrs or 25 Years".	As per RFP
829	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	OEM Should have installation base of 1000 Industrial Switches in India since past 10 years	This clause is restricting many technically compliant OEMs of switches to quote their product. It is requested to remove this eligibility condition.	As per RFP
830	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	OEM Should have installation base of 1000 Industrial Switches in India since past 10 years	This Clause Specific to one or 2 OEM only, there are many reputed OEM Who are in Networking industry supplied many filed switches in India, Request you to accept the following changes to have multiple OEM to bid this tender OEM Should have installation base of 1000 managed POE Switches in India since past 5 years	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
831	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Safety: UL 508, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	1. NEMA-TS2, FCC and UL certifications are foreign certifications which adhere to European and American standards. DIPP PPP MII order dated 16.09.2020 categorically says that specifying foreign certifications in the bid document is restrictive and discriminatory practice against Local OEMs. 2. Please allow PMA compliant Indian OEMs to produce certificate from standard lab approved/ authorized by Govt. of India that their product are equivalent to UL 508, FCC and NEMA-TS2 and meets all standard and specification of above certifications. 3. Also request to allow submission of above certificates on or before delivery of equipments. An undertake by OEM & bidders regarding compliance of above standards can be submitted along with technical bid.	As per RFP
832	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Safety: UL 508, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	EN 50121-4 is specific to switches deployed inside railways coach. As per tender application requirement, this standard may not be required. Kindly provide clarity.	As per RFP
833	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Safety: UL 508, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	For Wider participation requesting to change the clause. Change Request "Safety: , EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Vibration: IEC 60068-2-6 NEMA-TS2"	As per RFP
834	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Safety: UL 508, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	Pls. amend as " Safety: UL 508/60950, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	As per RFP
835	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Safety: UL 508, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	Safety: UL 508, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	As per RFP
836	2	144	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	Safety: UL 508, EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	Some Certifications like UL 508 and EN 61000-6-4 (Industrial) EMS: EN 61000-6-2 (Industrial), are specific to one to two OEM only, UL 60950 are the standard UL certification hence request you to Accept the following changes Safety: UL 508/UL60950, IEC/EN60950-1 (LVD) EMI: FCC Part 15 Subpart B Class A, EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Rail Traffic: EN 50121-4 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 NEMA-TS2	As per RFP
837	2	144	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	User passwords with multiple levels of security protect against unauthorized configuration Command line interface (CLI/local Access) for quickly configuring major managed functions: More than 200 command lines	For Wider participation. Requesting to remove "for quickly configuring major managed functions: More than 200 command lines"	As per RFP
838	2	144	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	User passwords with multiple levels of security protect against unauthorized configuration Command line interface (CLI/local Access) for quickly configuring major managed functions: More than 200 command lines	User passwords with multiple levels of security protect against unauthorized configuration Command line interface (CLI/local Access) for quickly configuring major managed functions: More than 200 command lines	As per RFP
839	2	145	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	100 Kva / 100 kW , 3-Phase Input / 3-Phase Output UPS in N+N. Each Cabinet of 60kva UPS shall be expandable upto min 120kva/120kW Complied	From day, the UPS rating to be offered is 60kva or 100kva. Kindly clarify	100KVA/KW
840	2	145	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	100 Kva / 100 kW , 3-Phase Input / 3-Phase Output UPS in N+N. Each Cabinet of 60kva UPS shall be expandable upto min 120kva/120kW	Please clarify whether it requires 100KVA or 60KVA. If 100KVA required then what is the cabinet capacity as 60KVA required 120KVA Cabinet.	UPS with loaded 100KVA/KW in 120 KVA Frame is required (Refer <b>Corrigendum-4</b> )
841	2	145	Functional & Technical Requirements for Online UPS - 100 KVA	b) Modular & Scalable UPS with hot swappable Power Module of rating of 20kW. Each module should have full rated rectifier, inverter & charger (no discrete or granule 1Ph design will be accepted)	b) Modular & Scalable UPS with hot swappable Power Module of rating of 20kW/30kW /50 kW or as per OEM design. Each module should have full rated rectifier, inverter & charger (no discrete or granule 1Ph design will be accepted)	As per RFP



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842	2	145	Functional & Technical Requirements for Online UPS - 100 KVA	b) Modular & Scalable UPS with hot swappable Power Module of rating of 20kW. Each module should have full rated rectifier, inverter & charger (no discrete or granule 1Ph design will be accepted)	Kindly accept the power module rating as per OEM design standard	As per RFP
843	2	145	Functional & Technical Requirements for Online UPS - 100 KVA	b) Modular & Scalable UPS with hot swappable Power Module of rating of 20kW. Each module should have full rated rectifier, inverter & charger (no discrete or granule 1Ph design will be accepted)	Request to change Power Module rating to 20/25KVA	As per RFP
844	2	145	Functional & Technical Requirements for Online UPS - 100 KVA	d) Parallel capability up to Six no. of Power Modules for Vertical redundancy & up to eight UPS units for capacity.	Kindly change the clause as : d) Parallel capability up to maximum Six no. of Power Modules for Vertical redundancy & up to maximum eight UPS units for capacity or as per OEM design	As per RFP
845	2	145	Functional & Technical Requirements for Online UPS - 100 KVA	d) Parallel capability up to Six no. of Power Modules for Vertical redundancy & up to eight UPS units for capacity.	Kindly change the clause as d) Parallel capability up to maximum Six no. of Power Modules for Vertical redundancy & up to maximum eight UPS units for capacity or as per OEM design	As per RFP
846	2	147	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	0.99	0.98	As per RFP
847	2	147	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	0.99	Kindly accept as : 98% or as per OEM desing	As per RFP
848	2	147	DC and ICCS UPS	Display Panel (In-built min. 8.5 inch Touch Display)	Tocuh Display of 8.5" and 10" both mentioned. Request you to kindly clarify	As per RFP
849	2	148	Functional & Technical Requirements for Online UPS - 100 KVA	Events Logs ( min. 8500 events)	Event log of 8500 and 10000 nos both mentioned. Request you to kindly clarify	As per RFP
850	2	148	Functional & Technical Requirements for Online UPS - 100 KVA	Events Logs ( min. 8500 events) like: Over temperature / DC Bus Fail / Fan Fail / Fuse Fail / Overload / Short-circuit / Device Fail / Inverter Fail / Rectifier Fail / Bypass Fail, etc Statistical Data: No. of power failures / Transfers to Bypass / Total Running time, etc	Events Logs ( min. 512 events or higher ) like: Over temperature / DC Bus Fail / Fan Fail / Fuse Fail / Overload / Short-circuit / Device Fail / Inverter Fail / Rectifier Fail / Bypass Fail, etc Statistical Data: No. of power failures / Transfers to Bypass / Total Running time, etc	As per RFP
851	2	148	Functional & Technical Requirements for Online UPS - 100 KVA	Events Logs ( min. 8500 events) like: Over temperature / DC Bus Fail / Fan Fail / Fuse Fail / Overload / Short-circuit / Device Fail / Inverter Fail / Rectifier Fail / Bypass Fail, etc Statistical Data: No. of power failures / Transfers to Bypass / Total Running time, etc	Mentioned specification is OEM specific . Kindly accept as per OEM design standard	As per RFP
852	2	148	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	LiB (Lithium Ion) – with 10 years warranty	LiB (Lithium Ion) – with 5 years warranty as Manufacturer given	As per RFP
853	2	148	Functional & Technical Requirements for Online UPS - 100 KVA	Battery Bank LiB (Lithium Ion) – with 10 years warranty Noted Backup Required 30 minutes on 100kVA taking @ 0.8 power factor & considering 80% DOD Complied Backup Required 30 minutes on 300kva taking @ 0.7 power factor & considering 80% DOD Complied	Pl advice whether battery back-up shall be tested at FACTORY during PDI or at site during AT What would be the design margin to be considered since 10 years warranty on batteries is asked. Any design margin to consider for 10 year life for batteries. Kindly advice	As per RFP
854	2	149	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	2 Level BMS Design ( Module CMU & Rack BMU )	3 level (Module / Rack and System) or as per OEM design	As per RFP
855	2	149	5.2.1.20. Functional & Technical Requirements for PoE Ruggedized Switches	2 Level BMS Design ( Module CMU & Rack BMU )	Kindly accept as per OEM design	As per RFP
856	2	149	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	90% of capacity within 4 to 4.5 hrs	Kindly change as : 90% charging within 8-10 Hrs or as per OEM design	As per RFP
857	2	149	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	90% of capacity within 4 to 4.5 hrs	Kindly change as :8-10 Hrs for 90% charging	As per RFP

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858	2	149	5.2.1.23. Functional & Technical Requirement for NIPS & HIPS Clause No 3	The NIPS must support 115,000,000 concurrent sessions and 6,50,000 new connections per second with latency should be <40 Micro.	The NIPS must support 115,000,000 concurrent sessions and 6,50,000 new connections per second with latency should be <40 Micro.	Refer <b>Corrigendum-4</b> in this regard
859	2	149	5.2.1.23. Functional & Technical Requirement for NIPS & HIPS Clause No 3	The NIPS must support 115,000,000 concurrent sessions and 6,50,000 new connections per second with latency should be <40 Micro.	The NIPS must support 30,000,000 concurrent sessions and 3,50,000 new connections per second with latency should be <40 Micro. Considering the throughput the asked concurrent session and new connection/sec is too high, hence requesting for change	Refer <b>Corrigendum-4</b> in this regard
860	2	149	5.2.1.24. Functional & Technical Requirements for Online UPS - 500 VA	The proposed IPS solution must support Layer 2 Fall back option to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should able submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8, win 2008, win2012 at least.	The proposed IPS solution must support Layer 2 Fall back option to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should able submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8/10 at least. OEM favouring, hence for broader participation requesting removal of the clause	As per RFP
861	2	149	5.2.1.24. Functional & Technical Requirements for Online UPS - 500 VA	The proposed IPS solution must support Layer 2 Fall back option to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should able submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8, win 2008, win2012 at least.	The proposed IPS solution must support Layer 2 Fall back option to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should able submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8, win 2008, win2012 at least.	As per RFP
862	2	149	5.2.1.24. Functional & Technical Requirements for Online UPS - 500 VA	The proposed IPS solution must support Layer 2 Fall back option to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should able submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8, win 2008, win2012 at least.	The proposed IPS solution must support Layer 2 Fall back option to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should able submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8/10 at least. OEM favouring, hence for broader participation requesting removal of the clause	As per RFP
863	2	149	5.2.1.24. Functional & Technical Requirements for Online UPS - 500 VA	The scope of work for infrastructure and maintenance includes the following: ii. ISO 20000 & ISO 27001	Understand that compliance to ISO 20000 & ISO 27001 guideline is to be followed but certification is not mandatory. Please clarify	As per RFP
864	2	150	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	MTBF greater than 350000 hours	Kindly change as : 100,000 Hrs, full load continuous running	As per RFP
865	2	150	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	MTBF greater than 350000 hours	Kindly change as : 100,000 Hrs, full load continuous running or as per OEM Design	As per RFP
866	2	150	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	NABL type test for the same model or OEM shall have to submit report from own factory having NABL Accredited Factory calibration in India	NABL type test for the same model or OEM shall have to submit report from own factory having NABL Accredited Factory calibration in India before Installation of material	As per RFP
867	2	150	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	Proven solutions required. OEM shall have supplied and installed min. 20 sets of UPS (above 100kva or more) with Li- Ion batteries (of same Chemistry asked) in India with Hot- Swap Modular UPS Systems in last 3 years	Please modify as OEM Shall 5 no 100KVA or more capacity in last 10 Years	As per RFP
868	2	150	5.2.1.23. Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA	The offered HIPS product series must have achieved EAL (Evaluation Assurance Level) Certification of EAL4 or higher in the Common Criteria for Information Technology Security Evaluation (ISO/IEC 15408) for computer security certification.	The offered HIPS product series must have achieved EAL (Evaluation Assurance Level) Certification of EAL4 or higher in the Common Criteria for Information Technology Security Evaluation (ISO/IEC 15408) for computer security certification.	As per RFP
869	2	150	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	The server Security solution should provide automatic recommendations against existing vulnerabilities with CVE number, Dynamically tuning IDS/IPS sensors (eg. Selecting rules, configuring policies, updating policies, etc.) and provide automatic recommendation of removing assigned policies if vulnerability no longer exists - For Example - If a patch is deployed unwanted signatures should be un-assigned automatically.	Please remove the clause  This is a functionality of HIPS solution. NIPS and HIPS are two different solution hence request you to consider specifications in separate HIPS or endpoint security solution.	As per RFP

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870	2	150	5.2.1.23. Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA	The server Security solution should provide automatic recommendations against existing vulnerabilities with CVE number, Dynamically tuning IDS/IPS sensors (eg. Selecting rules, configuring policies, updating policies, etc.) and provide automatic recommendation of removing assigned policies if vulnerability no longer exists - For Example - If a patch is deployed unwanted signatures should be un-assigned automatically.	The server Security solution should provide automatic recommendations against existing vulnerabilities with CVE number, Dynamically tuning IDS/IPS sensors (eg. Selecting rules, configuring policies, updating policies, etc.) and provide automatic recommendation of removing assigned policies if vulnerability no longer exists - For Example - If a patch is deployed unwanted signatures should be un-assigned automatically.	The clarification sought / change requested is not clear
871	2	150	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	The proposed IPS solution must support fail open option to bypass NIC to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should be able to submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8, win 2008, win2012 at least.	HIPS solution should support server class OS - Windows Server 2K3, 2K8 and 2K12, 2k16, Linux, Debian.	As per RFP
872	2	151	5.2.1.22. Functional & Technical Requirements for Online UPS - 300 KVA	300 kVA/kW, 3-Phase Input / 3-Phase Output UPS with frame capacity (width max. 600mm of frame)	Please clarify the frame capacity	As per RFP
873	2	153	5.2.1.22. Functional & Technical Requirements for Online UPS - 300 KVA	0.99	Kindly accept as : 98% or per OEM design	As per RFP
874	2	153	5.2.1.22. Functional & Technical Requirements for Online UPS - 300 KVA	96.5% (AC to AC) - Online (Double Conversion)	Kindly accept as : 96% or per OEM design	As per RFP
875	2	155	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	90% of capacity within 4 to 4.5 hrs	Kindly accept as : 8-10 hrs to charge 90% or as per OEM Design	As per RFP
876	2	155	5.2.1.21. Functional & Technical Requirements for Online UPS - 100 KVA	90% of capacity within 4 to 4.5 hrs	Kindly accept as 8-10 hrs to charge 90% or as per OEM Design	As per RFP
877	2	155	5.2.1.22. Functional & Technical Requirements for Online UPS - 300 KVA	12.1 Backup Required 30 minutes on 300kVA taking @ 0.7 power factor & considering 80% DOD	Both clause seems to be conflict to each other in term of backup time of 300KVA UPS System. In that reference, please provide confirmation on the actual backup time required for 300kva UPS system as part of this project requirement, whether it will be 120 min or 30 min of UPS System. please clarify.	As per RFP
878	2	155	5.2.1.22. Functional & Technical Requirements for Online UPS - 300 KVA	Individual Rack Nominal Capacity in Ah 5 x 60Ah (or higher Ah) as three Rack capacity (similar to 42U size with 600(W) X2000(H)mm)	Whether we can offer any other combinatin of nos of strings and Ah of cells to meet the desired back-up time. Kindly evaluate and advice	As per RFP
879	2	156	Functional & Technical Requirements for Online UPS - 100 KVA	Charge: 0°C ~ +45°C Discharge: -20°C ~ +45°C	Kindly accept as 0-40 Degree celcius or as per OEM Design	As per RFP
880	2	157	Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA	Functional & Technical Requirements for Online UPS – 1/2/3/5 KV	Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA UPS is given in the RFP, but qty of the 1/2/5KVA UPS is not mentioned in the Bill of Material, Please share the actual qty of UPS , which need to be provided as part of this RFP Requirement.	As per RFP
881	2	157	5.2.1.23. and . Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA5.2.1.24 - Field UPS	SNMP card required or not in field UPS	Clarification sought whether the UPS will be monitored remotely or not?	Yes, SNMP card is required.
882	2	157	5.2.1.23. Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA	UPS upto 3kva - 175 to 280Vac for all 1P (Requires 60% load support @ 110Vac for UPS upto 3kva. (Input range shall be settable at site from 110 to 295Vac to match the incoming raw power)	Please clarify the input rane of 5 KVA	As per RFP

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883	2	157	5.2.1.23. Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA	ALL UPS including Field, DC and ICCS shall from the same OEM	You are requested to kindly remove this clause as the same is restrictive in nature.	As per RFP
884	2	157	5.2.1.23. Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA	Input voltae range - 175 to 280Vac for all 1P	This can be improved to 160 - 300Vac on full load for better management of battery. Kindly evaluate	As per RFP
885	2	159		Rating of 500VA is not available in Online segment with any of the OEM	Kindly advice otherwise this will result in non standard product which may cause issue during OPEX	As per RFP
886	2	159	Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA	Battery Back-up time and VDC	Do we need to considered Temperature Correction factor for all Outdoor UPS battery sizing. Pl confirm	As per RFP
887	2	159	5.2.1.23. Functional & Technical Requirements for Online UPS – 1/2/3/5 KVA	5kva – Rack Mount 2U	Request to change to Tower type	As per RFP
888	2	159	5.2.1.24. Functional & Technical Requirements for Online UPS - 500 VA	6% for Linear load & 10 % for Non-linear load	Is this required on 500VA load as every OEM would be offering 1kva as 500VA ONLINE UPS is not available in market	As per RFP
889	2	159	6.3. Traffic Violations and Enforcement System	VDC - as per OEM but with variance from 16 nos to 22 nos at site. UPS shall also work with 12 batteries if desired at site with de-rated capacity	Request to change variance of batteries from 10 to 20 batteries. 10 to 13 batteries will have 60% derated capacity	As per RFP
890	2	160	5.2.1.24. Functional & Technical Requirements for Online UPS - 500 VA	Indian Socket 10A(min 3nos)	For 500VA 10A socket is not required 6A is ok	As per RFP
891	2	161	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS		Should be Common Criteria EAL 4 and FIPS 140-2 validated	As per RFP
892	2	161	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	Intrusion Prevention System (IPS) should be based on purpose-built platform that has Field Programmable Gate Arrays (FPGAs). NIPS should be independent standalone and dedicated appliance based solution, NIPS should not the part of firewall and UTM.	Intrusion Prevention System (IPS) should be based on purpose-built platform that has Field Programmable Gate Arrays (FPGAs) or should be open architecture based on multi-core cpu. NIPS should be independent standalone and dedicated appliance based solution, NIPS should not the part of firewall and UTM. Multi core architecture helps in easy introduction of new features and also provide scalability for future advancement.	As per RFP
893	2	161	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	Intrusion Prevention System (IPS) should be based on purpose-built platform that has Field Programmable Gate Arrays (FPGAs). NIPS should be independent standalone and dedicated appliance based solution, NIPS should not the part of firewall and UTM.	Intrusion Prevention System (IPS) should be based on purpose-built platform that has Field Programmable Gate Arrays (FPGAs). NIPS should be independent standalone and dedicated appliance based solution, NIPS should not the part of firewall and UTM.	As per RFP
894	2	162	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	The proposed IPS solution must support fail open option to bypass NIC to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should able submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8, win 2008, win2012 at least.	In existing clause some of OS are missing, please add OS and modify cluase as :- The proposed IPS solution must support fail open option to bypass NIC to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should able submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8, win 2008, win2012 and 2016 at least.	As per RFP
895	2	162	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS	The IPS filters must be categories into the following categories for easy management: - Exploits, Identity Theft/Phishing, Reconnaissance, Security Policy, Spyware, Virus, Vulnerabilities, Network Equipment, Traffic Normalization, Peer to Peer, Internet Messaging, Streaming Media	The IPS filters must have multiple categories for easy management Different OEM have different approach in categorization threats and vulnerabilities therefore for broader participation requesting change	As per RFP

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896	2	162	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS		The proposed IPS solution must support fail open option to bypass NIC to bypass traffic even with the power on, in event of un-recoverable internal software error such as firmware corruption, memory errors. NIPS should be able to submit file to sandboxing for real time execution and sandboxing should be customized and able to support win 7, win 8, win 2008, win2012 at least.	As per RFP
897	2	162	5.2.1.25. Functional & Technical Requirements for HIPS & NIPS		The IPS filters must be categorized into the following categories for easy management: - Exploits, Identity Theft/Phishing, Reconnaissance, Security Policy, Spyware, Virus, Vulnerabilities, Network Equipment, Traffic Normalization, Peer to Peer, Internet Messaging, Streaming Media	As per RFP
898	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Intelligent next generation SIEM must be able to detect any anomalies, report in real time and take action as programmed having SIEM AND SOAR capabilities.	SIEM and SOAR are different technologies. Usually SOAR should be procured separately after stabilizing SIEM while moving towards the maturity of SOC. This is a restrictive and proprietary clause which bars Make in India Products to qualify. None of the other smart city Projects have included SOAR, it is a complete wastage of funds. Hence request you to delete SOAR requirement	Refer <b>Corrigendum-4</b> w.r.t SIEM
899	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Solution must be Sized for 20000 Sustained, 40000 Peak EPS with burst support for upto 50000 EPS without queuing or dropping any logs in three tiered physically segregated architecture consisting of Collection layer, log management layer and Correlation layer. SOAR Solution must support all devices as SIEM and no restriction on Admins.	We request you to delete SOAR solution( SOAR Solution must support all devices as SIEM and no restriction on Admins. ) because lot of SIEM players do not offer a SOAR solution and this clause is restrictive in nature.	Refer <b>Corrigendum-4</b> w.r.t SIEM
900	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Solution should have security orchestration and automated response engine bi directionally integrated to reduce security incident MTTR (Mean Time To Respond) and automate L1/L2 security activities.	This is not a SIEM functionality and is again a feature of SOAR. Please delete	Refer <b>Corrigendum-4</b> w.r.t SIEM
901	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Logs must be retained for 6 months on centralized storage. No separate storage should be required. All logs must get auto archived on centralized storage directly from Log management layer and archived logs must be readable from archival/ central storage directly	Does it mean centralized storage of SIEM solution or NAS?	Refer <b>Corrigendum-4</b> w.r.t SIEM
902	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Platform must be on VM's or physical servers supporting complete HA at DC and DR. All licenses must be included.	As per our understanding having complete HA at DC and DR would mean an overall requirement of 80000EPS. This will have an impact on the sizing and commercials of the solution. We recommend that as industry best practise, DC and DR to run active active mode which will solve the purpose of redundancy.	Refer <b>Corrigendum-4</b> w.r.t SIEM
903	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Platform must be on VM's or physical servers supporting complete HA at DC and DR. All licenses must be included.	Please confirm if HA at DC and DR is required in Active-Active state or Active-Standby state	Refer <b>Corrigendum-4</b> w.r.t SIEM
904	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Platform must support MITR For threat intelligence	Does it mean MITRE ATTACK here.	Refer <b>Corrigendum-4</b> w.r.t SIEM
905	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Platform must support MITR For threat intelligence	Please confirm if this is MITRE ATT&CK ?	Refer <b>Corrigendum-4</b> w.r.t SIEM
906	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	It must provide platform for orchestration and automation of response integrated for complete usage and for all devices and admins	This again a proprietary clause favouring one OEM. This is a SOAR functionality and not as SIEM feature. Hence request you to delete	Refer <b>Corrigendum-4</b> w.r.t SIEM
907	2	163	5.2.1.26. Functional & Technical Requirement for SIEM	Proposed solution should have unified security data lake natively available to provide AI/ML based threat hunting and analytics capabilities	Please suggest if the requirement is for a security data lake or a SIEM solution. Security data lake is a complex environment and is not meant for Smart city projects. None of the other smart city Projects have included SOAR, It is a complete wastage of funds	Refer <b>Corrigendum-4</b> w.r.t SIEM
908	2	163	Functional & Technical Requirement for SIEM	For future expansion the proposed solution must provide ability to archive as when required logs upto 24 PB. It must support auto-archiving to attached remote storage (ie. NAS/DAS/ NLSAS)	Please guide on what basis 24 PB has been arrived at ?	Refer <b>Corrigendum-4</b> w.r.t SIEM

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909	2	164	5.2.1.26. Functional & Technical Requirement for SIEM	Solution must integrate with NIPS and other Network devices to capture packet data	Integration with NIPS will not give full visibility and some of the critical nation state attacks would be missed .All the leading SIEM OEM' ( RSA /Splunk/IBM/Logrhythm )including make in India OEM' have their dedicated packet capture solution along with the SIEM.We recommend atleast 250 Mbps of packet capture data to be provided along with the SIEM solution.Also for faster detection of attacks, packet data and the SIEM should be from the same OEM .	Refer <b>Corrigendum-4</b> w.r.t SIEM
910	2	164	5.2.1.26. Functional & Technical Requirement for SIEM	Solution must integrate with NIPS and other Network devices to capture packet data	Request to consider Packet capture solution and SIEM from the same OEM for tighter integration and better results in threat hunting. There are not many options of specialised independent packet capture vendor in India . Request you to include Packet Capture to be provided along with SIEM . There should be an integrated dash board for Packet Capture and SIEM. It should capture north south traffic-Atleast 1 Gbps Bandwidth	Refer <b>Corrigendum-4</b> w.r.t SIEM
911	2	164	5.2.1.26. Functional & Technical Requirement for SIEM	Kindly modify this clause to "Solution must integrate with NIPS and other Network devices to capture Netflow related to traffic"	Vendor specific point. Kindly modify the clause as requested so that all the leading vendors can participate in the bid.	Refer <b>Corrigendum-4</b> w.r.t SIEM
912	2	164	5.2.1.26. Functional & Technical Requirement for SIEM	Quoted Solution must have its presence in India for more than 7 years and must have atleast 3 deployments for more than 50000 EPS in Government of India organization. Atleast 3 sign-off must be attached for more than 50K EPS from Government of India organization.	In reference to notification issued by Ministry of Electronics & Information technology in public procurement (Preference to make in India) Order 2019 for Cyber Security Products (File No.1(10)2017CLES), Clause no 8 "In any procurement process, the procuring entity shall not specify any mandatory qualification criteria, any eligibility specification or certifications issued by any foreign testing/security lab(s)/analyst reviews which restricts eligibility of India cyber Security Products as defined in this order" In View of this notification we would request to chnage this clause as " Quoted solution must be "Make In India" product having presence in India for more than 7 years	Refer <b>Corrigendum-4</b> w.r.t SIEM
913	2	164	5.2.1.26. Functional & Technical Requirement for SIEM	Quoted Solution must have its presence in India for more than 7 years and must have atleast 3 deployments for more than 50000 EPS in Government of India organization. Atleast 3 sign-off must be attached for more than 50K EPS from Government of India organization	It is restricted to certain OEM , 100 % make in india should be given opportunity.	Refer <b>Corrigendum-4</b> w.r.t SIEM
914	2	164	5.2.1.26. Functional & Technical Requirement for SIEM	Quoted Solution must have its presence in India for more than 7 years and must have atleast 3 deployments for more than 50000 EPS in Government of India organization. Atleast 3 sign-off must be attached for more than 50K EPS from Government of India organization.	Requirement is for 20K EPS . This is a restrictive clause and most of the Make in India OEM' will not be able to participate .Request you to delete this clause for active participation	Refer <b>Corrigendum-4</b> w.r.t SIEM
915	2	164	5.2.1.26. Functional & Technical Requirement for SIEM		Vendor specific point. Kindly remove as requested so that all the leading vendors can participate in the bid.	Refer <b>Corrigendum-4</b> w.r.t SIEM
916	2	164	Intelligent Integrated Infrastructure	i. Precision Air conditioner with variable capacity cooling, heater and humidifier to cater IT load approximately 2X300 KVA in N+N redundancy for a total of 15 racks (including 5 network racks).- No. 16	PAC System are required for 15 Nos of 42U rack but in the BOQ wherein the Rack qty is mentioned 16 nos, please confirm what will be the actual no of the Rack Qty & subsequent PAC Solution requirement.	As per RFP
917	2	164	Intelligent Integrated Infrastructure	i. Precision Air conditioner with variable capacity cooling, heater and humidifier to cater IT load approximately 2X300 KVA in N+N redundancy for a total of 15 racks (including 5 network racks).	Request for change : i) Precision Air conditioner with variable capacity cooling, heater and humidifier to cater IT load approximately 300 KVA in N+1 redundancy for a total of 15racks(including 5 network racks).	As per RFP
918	2	164	5.2.2. Intelligent Integrated Infrastructure	a) Intelligent integrated/inbuilt infrastructure, standalone system design, engineering, manufacture, assembly, testing at manufacturer's works, supply, delivery at site, unloading, handling, proper storage at site, erection, testing and commissioning at site of complete infrastructure for the proposed Data Centre to be installed. ....ii. 2 x 300 KVA UPS with P.F. up to 0.9 & efficiency 92% ~94%. There should be approximately 120 minutes battery back-up. iii. Novec 1230 Gas based fire suppression system as per NFPA guidelines iv. Smoke detectors, water leaks detection system, temperature & humidity sensor, door sensor, and alarm beacon.	Please clarify the following: Intelligent Integrated Infrastructure is only meant for Datacentre Area. Therefore, Gas based fire suppression system, temperature & humidity sensor, door sensor and alarm beacon are required only in Data Centre, not in other rooms.	As per RFP



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919	2	164	Intelligent Integrated Infrastructure	c) The Intelligent Integrated Infrastructure essentially includes internal redundant or backup power supplies, environmental controls (e.g., precision air conditioning, fire suppression, smoke detection, Water leak detection, humidity sensor etc.), security devices etc. Critical systems like UPS and Precision Air-conditioning system will have N+N and N topology respectively.	Kindly confirm the redundancy level to be considered for precision air conditioning system as mentioned clause asks for N topology only .	As per RFP
920	2	164	5.2.2. Intelligent Integrated Infrastructure	Precision Air conditioner with variable capacity cooling, heater and humidifier to cater IT load approximately 2X300 KVA in N+N redundancy for a total of 15 racks (including 5 network racks). Precision Air Conditioning System for the Server Farm Area-5 Nos.	Precision Air conditioner will be required only in Server farm area in Data Center and not in complete data centre area in ICCB Building. Kindly confirm. Further, in Bill of material, Precision Air Conditioning System for the Server Farm Area is quantified as 5 numbers. Please specify the sizing of Precision AC in ton and Area to be covered.	As per RFP
921	2	165	5.2.2.2. Structured Cabling	1. - Standards - ANSI TIA 568 C for all structured cabling components	Request if the same be amended to Standards - ANSI/TIA 568.2-D for all structured cabling components as it's the latest standard	As per RFP
922	2	165	5.2.2.2. Structured Cabling	3. Certification: UL Listed and Verified	3. Certification: UL/CE/FCC Request you to ask the suggested certificates as very less OEM have UL certificates in OFC.	Certification: UL/CE/FCC (Refer <b>Corrigendum 4</b> in this regards)
923	2	165	5.2.2.3. Technical Specifications for Indoor Copper cable	1 - Type - Unshielded Twisted Pair, Category 6, TIA / EIA 568-C.2 & ISO/IEC 11801	Request if the same be amended to Unshielded Twisted Pair, Category 6, TIA / EIA 568.2-D & ISO/IEC 11801 Class E as it's the latest standard	As per RFP
924	2	165	5.2.2.3. Technical Specifications for Indoor Copper cable	Point No. 6 of Operating Temperature -10 °C to 65°C	Request if the same may be amended to Operating Temperature -10 °C to 60 °C	As per RFP
925	2	165	5.2.2.3. Technical Specifications for Indoor Copper cable	Point No. 7 Storage Temperature -20 °C to 80 °C	Request if the same may be amended to Storage Temperature -20 °C to 70 °C	As per RFP
926	2	166	5.2.2.3. Technical Specifications for Indoor Copper cable	18 - Standard Compliance - ANSI/TIA-568 C.2 category 6, ISO/IEC-11801, Class E/ IEC 61156-5: category 6	Request if the same be amended to Standard Compliance - ANSI/TIA-568.2-D category 6, ISO/IEC-11801, Class E/ IEC 61156-5: category 6 as it's the latest	As per RFP
927	2	166	5.2.2.3. Technical Specifications for Indoor Copper cable	20 Certification CPR (Class: B2ca-s1a, d1,a1)	Request if the same may be amended to Certification - RoHS Compliant, UL Listed and 04 Connector Channel Test based from ETL Lab. Certificates to be submitted alongwith proposal. as these are 3rd Party Certified Testing Labs which testing the cables for construction as well as performance.	As per RFP
928	2	166	5.2.2.4. Technical Specifications for Outdoor Copper cable	4 - Inner Jacket Material - FRPVC	Request if the same be amended to Inner Jacket Material - FRPVC / PVC	As per RFP
929	2	166	5.2.2.5. Electrical System & cabling	LT panels ,SUB Distribution Panel, UPS Input and Output Panel with Switch gear as per Specification	No specification of electrical panel has been provided in RFP and also not present in BOQ .	As per RFP
930	2	167	Cooling System	Both Hot and cold Aisle Containment for Server room as per layout in Annexure-2&3 of RFP Vol-II for better PUE, Cooling, Power, DCIM from same OEM for better Integration	Kindly confirm whether Both Hot and cold Aisle Containment to be done for the server room . Layouts shared do not depict Hot and cold Aisle Containment for Server room	As per RFP
931	2	167	Cooling System	Both Hot and cold Aisle Containment for Server room as per layout in Annexure-2&3 of RFP Vol-II for better PUE, Cooling, Power, DCIM from same OEM for better Integration	Layouts shared do not depict Hot and cold Aisle Containment for Server room	As per RFP
932	2	167	Cooling System	iii. Both Hot and cold Aisle Containment for Server room as per layout in Annexure-2&3 of RFP Vol-II for better PUE, Cooling, Power, DCIM from same OEM for better Integration	As per RFP, DCIM Solution is being asked but the line item for the same is missing in the "10.1 Annexure 1: Bill of Material", please confirm whether we have to proposed DCIM Solution as part of this RFP or not, if yes please include the same in the Bill of Material for cost or commercial consideration	As per RFP
933	2	167	5.2.2.7. Precision Air Conditioning System	1. For CCC DC, the cumulative capacity of precision AC would around 20 TR. The PAC solution will be N+1 configuration, with the best rating as per the proposal submitted.	Both Clause seems to conflict to each other in terms of deployment or Configuration of PAC System. In that reference , kindly confirm whether deployment or configuration of the PAC System will be carried out N or N+1 Topology	As per RFP
934	2	167	5.1.1. Functional & Technical Requirements for ICCB Platform	To supply and installation, testing and commissioning of the following equipment but not limited to i. DX based Precision Air Conditioning( Perimeter Cooling) ii. DX based Row Based Cooling (Row Cooling)and Containment for Server room 3	Both perimeter & row based cooling system has been asked .Kindly clarify whether perimeter or row based cooling system or both to be proposed for the upcoming data centre ?	As per RFP
935	2	169	5.2.2.4. Technical Specifications for Outdoor Copper cable	The precision air-conditioners shall have 2 independent refrigeration circuits (each comprising 1 no scroll/rotary compressors, refrigeration controls and condensers) and dual blowers for flexibility of operations and better redundancy.	Request to amend as : The precision air-conditioners shall have 1 or 2 independent refrigeration circuits (each comprising 1 no scroll/rotary compressors, refrigeration controls and condensers) and dual blowers for flexibility of operations and better redundancy.	As per RFP

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936	2	169	5.2.2.4. Technical Specifications for Outdoor Copper cable	The precision air-conditioners shall have 2 independent refrigeration circuits (each comprising 1 no scroll/rotatory compressors, refrigeration controls and condensers) and dual blowers for flexibility of operations and better redundancy.	Request to amend as : The precision air-conditioners shall have 1or 2 independent refrigeration circuits (each comprising 1 no scroll/rotatory compressors, refrigeration controls and condensers) and dual blowers for flexibility of operations and better redundancy.	As per RFP
937	2	169	5.2.2.7. Precision Air Conditioning System	o Humidifier shall be able steam-generating type, disposable cylinder and automatic solid-state control circuit. The humidifier controller shall communicate directly to the microprocessor. Humidifier shall be capable of producing min 3 kg of steam per hour.	o Humidifier shall be able steam-generating type, disposable cylinder and automatic solid-state control circuit. The humidifier controller shall communicate directly to the microprocessor. Humidifier shall be capable of producing min 3 kg of steam per hour or as per OEM Design	As per RFP
938	2	169	5.2.2.7. Precision Air Conditioning System	o Load dependent variable frequency driven compressor with proper protections.	o Load dependent variable capacity / frequency driven compressor with proper protections.	As per RFP
939	2	169	5.2.2.7. Precision Air Conditioning System	In case of aisle containment, the following points need to be adhered to : o Cooling Fans: Temperature controlled variable speed (30%-100%) driven by variable frequency drives. Units shall be 42 U, 600mm width & include casters and leveling feet to allow ease of installation in the row and provide a means to level the equipment with adjacent IT racks. Fans shall soft start to minimize in-rush current when starting.	In case of aisle containment, the following points need to be adhered to : o Cooling Fans: Temperature controlled variable speed (30%-100%) driven by variable frequency drives or as per OEM Design . Units shall be 42 U, 600mm width & include casters and leveling feet to allow ease of installation in the row and provide a means to level the equipment with adjacent IT racks. Fans shall soft start to minimize in-rush current when starting.	As per RFP
940	2	169	5.2.2.7. Precision Air Conditioning System	In case of aisle containment, the following points need to be adhered to: o Cooling Fans: Temperature controlled variable speed (30%-100%) driven by variable frequency drives. Units shall be 42 U, 600mm width & include casters and leveling feet to allow ease of installation in the row and provide a means to level the equipment with adjacent IT racks. Fans shall soft start to minimize in-rush current when starting.	In case of aisle containment, the following points need to be adhered to: o Cooling Fans: Temperature controlled variable speed (30%-100%) driven by variable frequency drives or as per OEM Design . Units shall be 42 U, 600mm width & include casters and leveling feet to allow ease of installation in the row and provide a means to level the equipment with adjacent IT racks. Fans shall soft start to minimize in-rush current when starting.	As per RFP
941	2	177	5.2.2.10. 42U Racks and PDU	42 U X 600mm X 1200mm (H x W x D) rack should have metal frame supporting more than 1300 kgs of static load and more than 1000 kg of dynamic load.	As per given clause, kindly provide or confirm the actual dimension of the 42U rack, whether it will be 800 mm x 1000 mm or 600mm X 1200mm.	As per RFP
942	2	180	Anti-Climb & Cantilever Poles for Mounting Camera etc	Anti-Climb & Cantilever Poles for Mounting Camera etc	Please specify that Height of Pole, inner&outer diameter and Cantiliver dimension. Also, share Pole and foundation Drawing.	As per RFP
943	2	180	DG Set (Diesel Genset)	DG Set (Diesel Genset)	as per RFP, 650 KVA of DG Set is being asked to carried out uninterrupt operation of DC/ICCC in case of Power Failure. But Diesel & their subsequent cost is not mentioned in the RFP, in that reference kindly clarify who will bear the cost of diesel for the duration of the project including Implementation , O&M.	As per RFP
944	2	191	5.2.1.16. Functional & Technical Requirements for Unified Storage		To get recognized industry leading solution from indian market and provide proven EMS solution which gives better visibility for network monitoring and SLA measurement it is required to get industry-standard solution. Therefore we request the authority to add below clause: "The Proposed EMS OEM should be "Make In India" with 100% local content and shall be present in Gartner's Market Guide for Network Automation and Orchestration Tools report. Documentary proof must be submitted at the time of submission."	As per RFP
945	2	191	Functional Enterprise Management System	General - Gartner Market Guide	To get recognized industry leading solution from Indian market and provide proven EMS solution which gives better visibility for network monitoring and SLA measurement it is required to get industry-standard solution. Therefore we request the authority to add below clause: "The Proposed EMS OEM should be "Make In India" with 100% local content and shall be present in Gartner's Market Guide for Network Automation and Orchestration Tools report. Documentary proof must be submitted at the time of submission."	As per RFP
946	2	191	5.2.3.1. Functional Enterprise Management System		To get recognized industry leading solution from indian market and provide proven EMS solution which gives better visibility for network monitoring and SLA measurement it is required to get industry-standard solution. Therefore we request the authority to add below clause: "The Proposed EMS OEM should be "Make In India" with 100% local content and shall be present in Gartner's Market Guide for Network Automation and Orchestration Tools report. Documentary proof must be submitted at the time of submission."	As per RFP
947	2	192	5.2.3.1. Functional Enterprise Management System	The solution should be virtual appliance and deployable on Linux operating systems to reduce the overall TCO	Request you to change this clause. Please rephrase requirement that solution must be deployable on Windows and Linux hence should be platform independent	Refer <b>Corrigendum-4</b> in this regard

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948	2	192	5.2.3.1. Functional Enterprise Management System	-	To get recognized industry leading solution from indian market and provide proven EMS solution which gives better visibility for network monitoring and SLA measurement it is required to get industry-standard solution. Therefore we request the authority to add below clause: "The Proposed EMS OEM should be "Make In India" with 100% local content and shall be present in Gartner's Market Guide for Network Automation and Orchestration Tools report. Documentary proof must be submitted at the time of submission."	As per RFP
949	2	192	5.2.3.1. Functional Enterprise Management System	Proposed NMS solution must have deployment reference of monitoring & managing 2500+ network nodes in at least 3 deployments across Gov/PSU/Large Enterprise.	EMS Project SOW requirements in government and Enterprise domain are quite different and PSCL being a government project, we suggest to restrict the customer reference to Government and public sector customer to ensure that the proposed EMS is proven at the scalability required for the said project and is operational in the Indian Public Sector space and thereby avoid risk of being a test bed for solutions not known to scale up to the requisite levels. Hence request you to please revise the clause as follows: "Proposed NMS solution must have deployment reference of monitoring & managing 2500+ network nodes in at least 3 deployments across Indian Gov/PSU."	Refer <b>Corrigendum-4</b> in this regard
950	2	192	5.2.3.1. Functional Enterprise Management System	Proposed NMS solution must have deployment reference of monitoring & managing 2500+ network nodes in at least 3 deployments across Gov/PSU/Large Enterprise.	In order to select robust EMS solution with proven deployment history and future scalability need for this project, we request you to modify this clause as per below: To get recognized industry leading solution from indian market and provide proven EMS solution which gives better visibility for network monitoring and SLA measurement it is required to get industry-standard solution. Therefore we request the authority to add below clause: "The Proposed EMS OEM should be "Make In India" with 100% local content and shall be present in Gartner's Market Guide for Network Automation and Orchestration Tools report. Documentary proof must be submitted at the time of submission." "Proposed NMS solution must have deployment reference of monitoring & managing 10,000+ network nodes in at least 2 deployments across Gov/ PSU/ Large Enterprise."	Refer <b>Corrigendum-4</b> in this regard
951	2	192	5.2.3.1. Functional Enterprise Management System	Proposed NMS solution must have deployment reference of monitoring & managing 2500+ network nodes in at least 3 deployments across Gov/PSU/Large Enterprise	In order to select robust EMS solution with proven deployment history and future scalability need for this project, we request you to modify this clause as per below: "Proposed NMS solution must have deployment reference of monitoring & managing 10,000+ network nodes in at least 2 deployments across Gov/ PSU/ Large Enterprise."	Refer <b>Corrigendum-4</b> in this regard
952	2	192	5.2.3.1. Functional Enterprise Management System	Proposed NMS solution must have deployment reference of monitoring & managing 2500+ network nodes in at least 3 deployments across Gov/PSU/Large Enterprise.	In order to select robust EMS solution with proven deployment history and future scalability need for this project, we request you to modify this clause as per below: "Proposed NMS solution must have deployment reference of monitoring & managing 10,000+ network nodes in at least 2 deployments across Gov/ PSU/ Large Enterprise."	Refer <b>Corrigendum-4</b> in this regard
953	2	192	5.2.3.1. Functional Enterprise Management System	Proposed NMS solution must have deployment reference of monitoring & managing 2500+ network nodes in at least 3 deployments across Gov/PSU/Large Enterprise.	Looking at the current BoQ and Future Scalability we request to amend the clause as below "Proposed NMS solution must have deployment reference of monitoring & managing 10,000+ network nodes in at least 3 deployments across Gov/ PSU/ Large Enterprise."	Refer <b>Corrigendum-4</b> in this regard
954	2	192	5.2.3.1. Functional Enterprise Management System	Proposed NMS solution must have deployment reference of monitoring & managing 2500+ network nodes in at least 3 deployments across Gov/PSU/Large Enterprise.	Proposed NMS solution must have deployment reference of monitoring & managing 2500+ network nodes in at least 2 deployments across Gov/PSU/Large Enterprise.	Refer <b>Corrigendum-4</b> in this regard
955	2	192	5.2.3.1. Functional Enterprise Management System	The operator should be able to build correlation rules in a simple GUI based environment where the Operator should be able to correlate cross domain events	For basic correlations we can use easy GUI for complex correlation rules you may need to use propriety easy coding module called MRL (Master Rule Language).	As per RFP
956	2	193	5.2.3.1. Functional Enterprise Management System	The platform must provide complete cross-domain visibility of IT infrastructure issues	ITSM reporting can provide analytics on ITSM Data. This will cover IT infrastructure issue and related context such as assignee, SLA, Priority, Ageing etc. Is this the expectation?	As per RFP
957	2	194	5.2.3.1. Functional Enterprise Management System	The proposed solution must support listening to traps and syslog events from the network devices with retention period upto 6 months.	Proposed solution can listen to all traps however, all traps will not be saved to the database only pre or post processed events will be saved - this is done to avoid unwanted noise in the system.	As per RFP

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958	2	194	5.2.3.1. Functional Enterprise Management System	The EMS must ensure FCAPS compliance: coordinated Fault Management, Configuration Management, Accounting Management, Performance Management and Security Management across the associated elements in the network.	ISO 27034-1 standard helps organizations integrate security controls in the software through their software development cycle, by defining security frameworks & vulnerability management processes. This certification protects customer assets from potential cyber breaches & security threats while complying with the Application security standards. Hence request you to please revise the clause as follows: "The EMS must ensure FCAPS compliance: coordinated Fault Management, Configuration Management, Accounting Management, Performance Management and Security Management across the associated elements in the network and from an OEM that is ISO 27034-1 & ISO 27001 certified."	As per RFP
959	2	194	5.2.3.1. Functional Enterprise Management System	There should be only one dashboard/interface to collect network/server/application/log data after correlation and consolidation across the IT landscape to reduce/correlate number of metrics/alerts	Storage monitoring specs are missing in EMS/NMS section. Looks storage & Server hardware management is important as per the RFP. This will help customer to correlate and consolidate the logs across IT Infrastructure and help to pin point the fault. Request you to include Storage and Server hardware management and monitoring under this point.	As per RFP
960	2	194	5.2.3.1. Functional Enterprise Management System	There should be only one dashboard/interface to collect network/server/application/log data after correlation and consolidation across the IT landscape to reduce/correlate number of metrics/alerts	Workload/Job automation/File transfers are important in a multi app/big data/analytics/distributed application scenarios. Request you to include File Movement also under EMS for better understanding of data flow within the IT Landscape.	As per RFP
961	2	196	5.2.3.1. Functional Enterprise Management System	The solution should allow creation of correlation or analytics rules for administrators	Does the administrator want to create analytics rules for dashboards? Is the understanding is correct, can you share the examples for analytics rules?	As per RFP
962	2	196	5.2.3.1. Functional Enterprise Management System	Log Management All points	Request you to move the section under SIEM to allow EMS technology providers to participate in the tender. This section is restricting our participation in this tender.	Refer <b>Corrigendum-4</b> in this regard
963	2	196	5.2.3.1. Functional Enterprise Management System	log management Minimum Technical Specification	Request you to delete log management functionalities (Pt 1 to Pt 21) as it is part of SIEM	As per RFP
964	2	198	5.2.3.1. Functional Enterprise Management System	The proposed solution must collect, index the log messages and support full text searching for forensic investigation	Forensic Investigation is not a part of ICC platform. Hence, we request you to delete this clause.	As per RFP
965	2	198	5.2.3.1. Functional Enterprise Management System	The proposed helpdesk solution should have achieved Pink VERIFY certification on at least 6 available ITIL processes. Documentary proof must be provided at the time of submission.	Please rephrase this requirement to "The proposed helpdesk solution should have achieved Pink VERIFY ITIL 4 certification on at least 14 available ITIL processes. Documentary proof must be provided at the time of submission."	As per RFP
966	2	198	5.2.3.1. Functional Enterprise Management System	The proposed helpdesk solution should have achieved Pink VERIFY certification on at least 6 available ITIL processes. Documentary proof must be provided at the time of submission	The proposed helpdesk solution should have achieved Pink VERIFY & ISO/IEC 2000 certification on at least 6 available ITIL processes. Documentary proof must be provided at the time of submission	As per RFP
967	2	198	5.2.3.1. Functional Enterprise Management System	The proposed helpdesk solution should have achieved Pink VERIFY certification on at least 6 available ITIL processes. Documentary proof must be provided at the time of submission.	To this requirement please add OEM shall be featured in the Gartner's Magic Quadrant for IT Service Management	As per RFP
968	2	198	5.2.3.1. Functional Enterprise Management System	The proposed solution should automatically suggest available technicians based on workload, average ticket closure time assigning tickets with no programming	Why is assignment based on average ticket closure time needed? Request you to remove this assignment criteria.	As per RFP
969	2	198	Functional Enterprise Management System: Service Desk - Incident Management	Each incident shall be able to associate multiple activity logs entries via manual update or automatic update from other enterprise management tools.	Can you please clarify if what other enterprise management tools will update activity log of incident	As per RFP
970	2	199	5.2.3.1. Functional Enterprise Management System	A configuration management database shall be established which stores unique information about each type Configuration Item CI or group of CIs.	Please also add that solution should contain a single CMDB which integrates with Asset Management, IT Service Management and Monitoring. H21	As per RFP
971	2	201	5.2.3.2. Functional & Technical Specifications for Server Load Balancer	In today's dynamic, application-centric marketplace, organizations are under more and more pressure to deliver the information, services, and experiences their customers expect—and to do it quickly, reliably, and securely.	Request you to change the clause as below. The proposed SLB solution must support below application optimization features: 1) TCP Optimization: Should be able to modify TCP parameters like keep alive interval, maximum RTO, window size, Nagle Algorithm, delay window control, packet loss ignore rate, flow control, congestion control speed etc. on the fly to improve application performance 2) Hardware based compression: Solution should be able to provide cost-effective offloading of traffic compression processing to improve page load times and reduce bandwidth utilization. 3) Caching: Solution should be able to do caching to reduce network traffic and increase application performance	As per RFP

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972	2	201	Functional & Technical Specifications for Server Load Balancer	As SLB being asked as an dedicated appliance then please clarify the need of creating 16 virtual instances. This clause increases the sizing of the solution significantly and gives an undue advantage to a single OEM.	Request you to change the clause as below "The device should support upto 8 virtual instances/segmentation. The Proposed device should be multi- tenanted Network Function Appliance with dedicated hardware resources like throughput, CPU, memory and OS. It should have internal redundant Power supply with 240GB usable hard disk, 16 GB RAM. It should be able to run multiple virtual network Functions like SLB, WAF, DDOS etc. from same OEM and running on same OS with no whitelabeling of solutions."	As per RFP
973	2	201	5.2.3.2. Functional & Technical Specifications for Server Load Balancer	Smart city will have many IOT Sensors working on protocol MQTT and SLB will be deployed next to Application deployed on multiple servers, it should have functionality of load balancing MQTT, HTTP and HTTPS traffic.	Request you to change the clause as below. "The proposed appliance must be able to load balance both TCP and UDP based application from L2 to L7 including WebSocket & WebSocket Secure, lightweight MQTT protocol for machine to machine connectivity between IoT appliances such as small sensors, mobile devices etc. Solution should have inbuilt HTTP to MQTT Parser and provide certificate based authentication between IOT devices and Load Balancer"	As per RFP
974	2	201	Functional & Technical Specifications for Server Load Balancer	Common Criteria provides assurance to the customer that products they purchase follow presidential requirements for operating secure information systems. Other federal agencies and some financial enterprises find it significantly easier to buy Common Criteria-approved products for their sensitive deployments.	Request you to change the clause as below. "Offered solution should be EAL or NDPP (Network Device Protection Profile) certified under Common Criteria Program for security related functions or ICSA Lab certified."	The clarification sought / change requested is not clear
975	2	202	5.2.3.3. Functional & Technical Requirements for Link Load Balancer	Running third party network function would be a security risk on Link load Balancer and does not provide any use case or benefit. All the virtual network function like LLB, SLB, WAF, DDoS etc must be from same OEM running on OEM hardware (no white labeling of the solution shall be allowed).	Kindly rephrase the clause as below. "The proposed device shall NOT allow any Open Source/3rd party Network Functions to be installed on OEM hardware".	The clarification sought / change requested is not clear
976	2	202	5.2.3.3. Functional & Technical Requirements for Link Load Balancer	The specification of the Link load balancer have been asked as hardware based solution. Whereas in the current clause virtual load balancer is asked which is not in sync with the overall link load balancer specification.	Kindly rephrase the clause as below. "The proposed load balancer must be a purpose built dedicated hardware load balancer with harden OS and must support all types of DNS Record type for LLB - All (A, AAAA, A6 ,CNAME, DNAME, HINFO, KEY, MX, NS, NXT, PTR, SIG, SOA, SRV, TXR)"	As per RFP
977	2	203	Functional & Technical Requirements for Link Load Balancer	DDOS must asked as an dedicated appliance. Therefore including DDOS functionality in SSLI will be repetative and will increase the price of the solution significantly.	request you to remove all the DDOS functionality (point 4.1 to 4.12) from SSLI	As per RFP
978	2	203	Functional & Technical Requirements for Link Load Balancer	DDOS must asked as an dedicated appliance. Therefore including DDOS functionality in LLB will be repetative and will increase the price of the solution significantly.	Therefore, request you to remove all the DDOS functionality (point 4.1 to 4.12) from LLB.	As per RFP
979	2	203	Functional & Technical Requirements for Link Load Balancer	DDOS should be asked as an dedicated appliance. Therefore including DDOS functionality in SSLI will be repetative and will increase the price of the solution significantly.	Therefore, request you to remove all the DDOS functionality (point 4.1 to 4.12) from SSLI	As per RFP
980	2	204	Functional & Technical Requirements for Centralized AV & Anti-Spam	AV Solution: Should have critical components for total security on the endpoint. (Antivirus, Antimalware, Vulnerability protection, iDLP, HIPS, Firewall, Device control & Virtual Patching.)	The Solution specifications seems to be monopoly and kindly change it accordingly	Refer <b>Corrigendum-4</b> in this regard
981	2	205	5.2.3.4. Functional & Technical Requirements for Centralized AV & Anti-Spam		Spam Filtering	The clarification sought / change requested is not clear
982	2	214	5.2.3.8. Functional & Technical Requirements for Identity Access Management	Single Sign on under Identity Management	Do you expect single sign on across all systems? As per our understanding, since the end users using the systems like ATCR, RLVD, ANPR, SVD , PA ECB,TVC and Egovernance systems would differ, single sign on across all the systems would not be necessary here.Please confirm	As per RFP
983	2	215	5.2.3.7. IDAMFunctional & Technical Requirements for Mailing & Messaging Solution	The proposed solution should facilitate workflow based switchover and switchback for DR drills for standard applications based on industry best practices	How many DR drills to be performed in an year ?	Every year 4 DR drills on quarterly basis.

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984	2	215	5.2.3.7. IDAMFunctional & Technical Requirements for Mailing & Messaging Solution	The proposed solution should be appliance based and provide the capability to manage Password Vault, Access Management, Session Recording, Application to Application (allows dynamic password access from applications), etc. within a single hardened platform.	Justification : Technology is moving from appliance base solution to virtual based solution, to avoid the monopoly and to have scalability in future Change Requested : The proposed solution should be virtual based and provide the capability to manage Password Vault, Access Management, Session Recording, Application to Application (allows dynamic password access from applications), etc. within a single hardened platform.	As per RFP
985	2	215	5.2.3.7. IDAMFunctional & Technical Requirements for Mailing & Messaging Solution	The proposed solution should be appliance based and provide the capability to manage Password Vault, Access Management, Session Recording, Application to Application (allows dynamic password access from applications), etc. within a single hardened platform.	The proposed solution should be appliance based and provide the capability to manage Password Vault, Access Management, Session Recording, Application to Application (allows dynamic password access from applications), etc. within a single hardened platform.	As per RFP
986	2	215	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should not require using third party software or hardware such as Operating Systems, Databases, High Availability, Load Balancers, etc.	Justification: this clause is favouring for hardware based solution and proprietary to single OEM which an old technology. Hence request you to kindly delete this clause Change Requested : Delete this point	As per RFP
987	2	215	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should provide highly efficient integrated video session recording with low storage requirements.	Justification: this help in complete forensics and evidence for incidence for the same. Without which proof cannot be submitted in court of law in case of security breach. Change Requested : The proposed solution should provide highly efficient 100% video session recording with low storage requirements.	As per RFP
988	2	215	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should provide built in Active-Active High Availability and Load Balancing along with built-in clustering without the use of a traffic load balancer.	Justification: This will ensure true HA with no addition licensing overhead in future. Change Requested : PAM solution must support high availability (load balancing and DC-DR) and must not have any single point of failure without any additional costs.	As per RFP
989	2	215	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should not require using third party software or hardware such as Operating Systems, Databases, High Availability, Load Balancers, etc.	OEMs require third party operating systems to run their applications on it.	As per RFP
990	2	215	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should not require using third party software or hardware such as Operating Systems, Databases, High Availability, Load Balancers, etc.	The proposed solution should not require using third party software or hardware such as Operating Systems, Databases, High Availability, Load Balancers, etc.	As per RFP
991	2	215	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should provide built in Active-Active High Availability and Load Balancing along with built-in clustering without the use of a traffic load balancer.	The proposed solution should provide built in Active-Active High Availability and Load Balancing along with built-in clustering without the use of a traffic load balancer.	As per RFP
992	2	215	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should provide highly efficient integrated video session recording with low storage requirements.	The proposed solution should provide highly efficient integrated video session recording with low storage requirements.	As per RFP
993	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should have Pre-built rules that cover typical fraud patterns.	Justification: Pre-Build Rules is an old technology and favouring on single OEM Change Requested :Delete this point	As per RFP
994	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should have tight integration with proposed SSO solution	Justification: Single OEM solution will help in seamless integration Change Requested :The proposed solution should have tight integration with proposed SSO. All the solution components should be from one vendor only for tight integration.	As per RFP
995	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should have Pre-built rules that cover typical fraud patterns.	The proposed solution should have Pre-built rules that cover typical fraud patterns.	As per RFP



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996	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should have tight integration with proposed SSO solution	The proposed solution should have tight integration with proposed SSO solution	As per RFP
997	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should provide threat analytics that provides a continuous, intelligent monitoring capability that helps enterprises detect and stop hackers and malicious insiders before they cause damage.	Justification: this will help in maintain the logs from IDAM solution also, which will you in doing the threat analysis. Change Requested : The proposed solution should provide threat analytics through SIEM integration to provide continuous, intelligent monitoring capability that helps enterprises detect and stop hackers and malicious insiders before they cause damage.	As per RFP
998	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should provide threat analytics that provides a continuous, intelligent monitoring capability that helps enterprises detect and stop hackers and malicious insiders before they cause damage.	The proposed solution should provide threat analytics that provides a continuous, intelligent monitoring capability that helps enterprises detect and stop hackers and malicious insiders before they cause damage.	As per RFP
999	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should support customization of pre-built rules or creation of new rules quickly and easily.	Justification: Latest technology has flexibility to create access rules for protection Change Requested :The proposed solution should have functionality to create access rules for access control protection.	As per RFP
1000	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should support customization of pre-built rules or creation of new rules quickly and easily.	The proposed solution should support customization of pre-built rules or creation of new rules quickly and easily.	As per RFP
1001	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should Self-learning scoring engine based on statistical modeling	Justification:this will ensure authentication of of uses like geo-fencing, authentication etc. Change Requested :The proposed solution should have risk based engine to provide step up authentication for high risk access score.	As per RFP
1002	2	216	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The proposed solution should Self-learning scoring engine based on statistical modeling	The proposed solution should Self-learning scoring engine based on statistical modeling	As per RFP
1003	2	217	5.2.3.1. Functional & Technical Requirements for SSLi	It is extremely important to clearly define the required number of interfaces. Sufficient number of Physical Ports considering the Virtual Instance allocation / Physical Port should be mentioned in order to avoid any fork-lift hardware refresh due to unavailability of ports. As per the RFP specifications, network components like firewall, switch etc. that will connect to SSLi solution as a part of service chaning architecture, have been asked with 40G interfaces. Therefore for faster connectivity it is highly recommended to add 40G ports along with 1G and 10G also.	Request you to change the clause as below " System must have 4 x 1 G cu Interface , 4 x 10 G fibre ports and 4x40G QSFP+ ports "	As per RFP
1004	2	217	5.2.3.1. Functional & Technical Requirements for SSLi	It is extremely important to clearly define the required number of interfaces. Sufficient number of Physical Ports considering the Virtual Instance allocation / Physical Port should be mentioned in order to avoid any fork-lift hardware refresh due to unavailability of ports. As per the RFP specifications, network components like firewall, switch etc. that will connect to SSLi solution as a part of service chaning architecture, have been asked with 40G interfaces. Therefore for faster connectivity it is highly recommended to add 40G ports along with 1G and 10G also.	Request you to change the clause as below. " System must have 4 x 1 G cu Interface , 4 x 10 G fibre ports and 4x40G QSFP+ ports "	As per RFP
1005	2	217	5.2.3.1. Functional & Technical Requirements for SSLi	It is extremely important to clearly define the required number of interfaces. Sufficient number of Physical Ports considering the Virtual Instance allocation / Physical Port should be mentioned in order to avoid any fork-lift hardware refresh due to unavailability of ports. As per the RFP specifications, network components like firewall, switch etc. that will connect to SSLi solution as a part of service chaning architecture, have been asked with 40G interfaces. Therefore for faster connectivity it is highly recommended to add 40G ports along with 1G and 10G also.	Request you to change the clause to " System must have 4 x 1G cu Interface , 4 x 10 G fibre ports and 4x40G QSFP+ ports "	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1006	2	217	Functional & Technical Requirements for SSLi	As SSL Visibility Appliance is use to inspect SSL traffic handled by other Datacenter Security components hence the sizing of the Appliance should be in accordance to the L7 throughput/TPS of the related Network Security Appliances. To size and qualify the device which operates efficiently in the given requirement in correspondence to the other Data center related components, we strongly recommend changing the appliance throughput.	Please change the clause as below: "System must support 35 Gbps of L7 throughput "	As per RFP
1007	2	217	Functional & Technical Requirements for SSLi	As SSL Visibility Appliance is use to inspect SSL traffic handled by other Datacenter Security components hence the sizing of the Appliance should be in accordance to the SSL throughput/TPS of the related Network Security Appliances. To size and qualify the device which operates efficiently in the given requirement in correspondence to the other Data center related components, we strongly recommend changing the SSLi throughput.	Please change the clause as below: "System must support 7 Gbps outbound SSL interception"	As per RFP
1008	2	217	Functional & Technical Requirements for SSLi	As SSL Visibility Appliance is use to inspect SSL traffic handled by other Datacenter Security components hence the sizing of the Appliance should be in accordance to the L7 throughput/TPS of the related Network Security Appliances. To size and qualify the device which operates efficiently in the given requirement in correspondence to the other Data center related components, we strongly recommend changing the appliance throughput.	Please change the clause to: "System must support 35 Gbps of L7 throughput "	As per RFP
1009	2	217	Functional & Technical Requirements for SSLi	As SSL Visibility Appliance is use to inspect SSL traffic handled by other Datacenter Security components hence the sizing of the Appliance should be in accordance to the SSL throughput/TPS of the related Network Security Appliances. To size and qualify the device which operates efficiently in the given requirement in correspondence to the other Data center related components, we strongly recommend changing the SSLi throughput.	Please change the clause to: "System must support 7 Gbps outbound SSL interception"	As per RFP
1010	2	217	Functional & Technical Requirements for SSLi	As SSLi being asked as an dedicated appliance then please clarify the need of creating 30 virtual instances with separate hardware resources like throughput, CPS, Concurrent connection, SSL throughput etc. assigned to each instance? This clause increases the sizing of the solution significantly and gives an undue advantage to a single OEM.	Request you to change the clause as below " Proposed device should be multi- tenanted Network Function Appliance with support upto 8 virtual instances with dedicated and seperate hardware resources like throughput, CPU, memory and OS. Should be able to run multiple virtual network Functions from same OEM and running on same OS for future scalability"	As per RFP
1011	2	217	Functional & Technical Requirements for SSLi	As SSLi being asked as an dedicated appliance then please clarify the need of creating 30 virtual instances with separate hardware resources like throughput, CPS, Concurrent connection, SSL throughput etc. assigned to each instance? This clause increases the sizing of the solution significantly and gives an undue advantage to a single OEM.	Request you to change the clause as below. " Proposed device should be multi- tenanted Network Function Appliance with support upto 8 virtual instances with dedicated and seperate hardware resources like throughput, CPU, memory and OS. Should be able to run multiple virtual network Functions from same OEM and running on same OS for future scalability"	As per RFP
1012	2	218	5.2.3.1. Functional & Technical Requirements for SSLi	The main purpose of deploying an SSLi appliance is to offload the entire SSL traffic on a single device and send that traffic to other network components (not limited to 4) through service chaining for analysis.	Request you to add the below functionality to the clause "The Proposed SSL Visibility Solution should have the ability to service chain. The solution should decrypt in the SSL traffic and send specific decrypted traffic to selective security solutions as defined. Solution should have the ability to insert or delete security solutions in the service chain."	As per RFP
1013	2	218	5.2.3.1. Functional & Technical Requirements for SSLi	URL filtering is part of a web proxy or UTM solution. Asking URL filtering in SSLi solution will be repetetive and gives an UNDUE ADVANTAGE TO SINGLE OEM.	Request you to remove this clause.	As per RFP
1014	2	218	5.2.3.1. Functional & Technical Requirements for SSLi	The VRRP protocol use open source libraries for high availability and publicly available for everyone including threat actors. Supply chain attacks are on rise and open source protocol libraries can be potential victim to these highly sophisticated attacks. Most of the leading OEM's use customized version of VRRP to meet the security requirements.	Kindly rephrase the clause as below. " System must support dedicated VRRP or equivalent setting per virtual context "	As per RFP
1015	2	218	5.2.3.1. Functional & Technical Requirements for SSLi	The VRRP protocol use open source libraries for high availability and publicly available for everyone including threat actors. Supply chain attacks are on rise and open source protocol libraries can be potential victim to these highly sophisticated attacks. Most of the leading OEM's use customized version of VRRP to meet the security requirements.	Kindly rephrase the clause as below. " System must support VRRP or equivalent based redundancy. "	As per RFP

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1016	2	218	5.2.3.1. Functional & Technical Requirements for SSLi	The VRRP protocol use open source libraries for high availability and publicly available for everyone including threat actors. Supply chain attacks are on rise and open source protocol libraries can be potential victim to these highly sophisticated attacks. Most of the leading OEM's use customized version of VRRP to meet the security requirements.	Kindly rephrase the clause as below. " System must support dynamic VRRP or equivalent priority by traffic interface, server, nexthop and routes."	As per RFP
1017	2	218	5.2.3.1. Functional & Technical Requirements for SSLi	The VRRP protocol use open source libraries for high availability and publicly available for everyone including threat actors. Supply chain attacks are on rise and open source protocol libraries can be potential victim to these highly sophisticated attacks. Most of the leading OEM's use customized version of VRRP to meet the security requirements.	Kindly rephrase the clause as below. " System must support dedicated VRRP or equivalent setting per virtual context "	As per RFP
1018	2	218	5.2.3.2. Functional & Technical Requirements for Enterprise Database	The SSL Visibility Solution should be able to support all of the TLS version for it to be compatible with all types of OS and browser versions for all components. Please ensure that all the protocols are supported and with TLS1.3 which is the most secure:	Please change the clause as below: The system should support TLS (1.0,1.1,1.2,1.3) and SSL V(1,2,3)	As per RFP
1019	2	218	5.2.3.2. Functional & Technical Requirements for Enterprise Database	The SSL Visibility Solution should be able to support all of the TLS version for it to be compatible with all types of OS and browser versions for all components. Please ensure that all the protocols are supported and with TLS1.3 which is the most secure:	Request you to add the below functionality to the clause The system should support TLS (1.0,1.1,1.2,1.3) and SSL V(1,2,3)	As per RFP
1020	2	218	5.2.3.2. Functional & Technical Requirements for Enterprise Database	OEM support structure and SLA should be available on public domain which gives assurity to all users.	Request you to change the clause as below. "The Proposed OEM should be Profitable for atleast 5 years and the Data to be available on Public Domain. The proposed ADC OEM should be listed in Leader's Quadrant of Gartner's last published Quadrant report or Forrester Report""	As per RFP
1021	2	221	5.3. Data Centre and Disaster Recovery Centre	Minimum Tier Rating for Data Centre: Tier 3	We request you to kindly clarify on the Tier-3 requirements for Non-ICT components like UPS, DG set, power line, etc and amend BOQ suitably.	As per RFP
1022	2	221	5.3.1. Disaster Recovery and DR Cloud	SI shall provide the rate chart of the cloud	A rate card in the commercial bid format is not conclusive in identifying the actual cost of DR services on cloud and hence overall L1 in the bid. The resources and their respective consumption window in a month should be clearly mentioned and prices for the same discovered accordingly.	As per RFP
1023	2	221	5.3.1. Disaster Recovery and DR Cloud	a) SI shall also be responsible for providing Cloud service for storing all applications at DR [minimum 50% production capacity, RTO – 30 mins, RPO – 30 mins] which will be implemented under PSCL Smart City project for the project duration. Performance SLA will be applicable while operations from DR site.	a) SI shall also be responsible for providing Cloud service for storing all applications at DR [minimum 50% production capacity, RTO – 30 mins, RPO – 30 mins] which will be implemented under PSCL Smart City project for the project duration. Performance SLA will be applicable while operations from DR site.	As per RFP
1024	2	221	5.3.1. Disaster Recovery and DR Cloud	a) SI shall also be responsible for providing Cloud service for storing all applications at DR [minimum 50% production capacity, RTO – 30 mins, RPO – 30 mins] which will be implemented under PSCL Smart City project for the project duration. Performance SLA will be applicable while operations from DR site.	Request to change RTO to 1- hour and RPO - 04 hours as pe MeITY best practices and specify the data retention in months	As per RFP
1025	2	221	5.3.1. Disaster Recovery and DR Cloud	The cloud service provider must have billing model of pay-per-consume where it will charge for amount of computing resources being consumed by application rather than for the allocated resources.	Please clarify the expectations from a pay per consume model. Cloud services are available on demand or on a reserved basis.	As per RFP
1026	2	223	5.3.3. Functional & Technical Requirement for DR Management	1 The proposed solution must offer a workflow based management& monitoring and reporting capability for the real time monitoring of a DR solution parameters like RPO (at DB level), RTO, replication status and should provide alerts( including SMS and email alerts) on any deviations. The proposed solution should be able to conduct DR Drills from a centralized location	As per RFP, DRM tools is being asked but the line item for the same is missing in the "10.1 Annexure 1: Bill of Material". In that reference , we request to include the same in the Bill of Material for better solution proposed & subsequent commercial/cost consideration.	As per RFP
1027	2	223	5.4. Mobile App	5.4. Mobile App	Kindly clarify on the number of users for mobile app	As per RFP
1028	2	223	5.4. Mobile App	5.4. Mobile App	Kindly clarify on the number of users of mobile app	As per RFP
1029	2	223	5.4. Mobile App	Mobile App- The features of Mobile App is given whereas Functional Requirements are missing.	Request to give FRS points. What all apps to be developed. What all integration and services to be provided on App. Whether an existing complete portal need to be replicated on the App or Apps would be stand alone.	As per RFP
1030	2	224	5.4. Mobile App	Mobile App	a. Please let us know the details of the eGovernance services which are expected to be enabled over mobile application b. We understand that a Hybrid Mobile application supporting all standard mobile platform would be allowed. Please confirm on our understanding.	As per RFP

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1031	2	224	5.4. Mobile App	Mobile app should be in Hindi & English and capable to take the load of all concurrent users at peak time. SI has to evaluate and make the app's functioning smooth for peak load.	Kindly provide the number of concurrent user license for Mobile App.	As per RFP
1032	2	224	5.4. Mobile App	Mobile app shall be hybrid on Android, iOS and Windows platform.	Windows based smartphone mobile users are very less. Moreover, such operating system is isolating in the market. Hence, we requesting you to amend this clause, "Mobile app shall be hybrid on Android and iOS platform."	As per RFP
1033	2	224	5.4. Mobile App	Mobile app shall be hybrid on Android, iOS and Windows platform.	Windows OS based mobile app development has been stopped in the market. So request to remove Windows OS from the given specification.	As per RFP
1034	2	224	5.4. Mobile App	11. Mobile app shall have the ability to post bulletins and resources on another mobile app through API's.	Mobile app to push information to another mobile app directly is technically not possible. There has to be application server in-between to send / receive messages between one mobile to another mobile. So request you to please delete these clause or else please clarify.	As per RFP
1035	2	224	5.4. Mobile App	2. Mobile app must be based on latest HTML 5 and above. 3. Mobile app shall be native on Android, iOS and Windows platform.	Mobile app can only be either HTML5 based which is Hybrid App or Native App. There will be one single app which can be either completely Native or completely Hybrid, Two of these together are technically not possible so please clarify.	Refer reply to query at S.No. 310
1036	2	224	5.4. Mobile App	9. The mobile app shall have the ability to take and transmit, pictures and videos in real time along with geo-tags from the device.	What is the size restriction of videos, images, text, bulletins to be pushed from the mobile app for the citizens?	As per RFP
1037	2	226	Design of Distribution and Access Network	Design of Distribution and Access Network	Design of Distribution and Access Network	As per RFP
1038	2	226	Design of Distribution and Access Network	Design of Distribution and Access Network	Requesting to add specification of access device at POP location to ensure to cater sufficient performace as mentioned in Design of Distribution and Access Network. Below are minimum suggestion for access router : 1 Router should be stand alone and preferable 1-2 RU device 2 Router should be CE3.0 certified. 3 The router shall support following type of interfaces 10GE, 1GE interfaces. 4 Router shall support Switching capacity of 64Gbps full duplex. 5 Router shall support 16000 Mac addresses,20K IPv4 routes/6K IPv6 Routes,6 label stack,200 VRFs,8KMPLS label and 1K multicast route 6 Router should support Redundant Power Supply . 7 Router shall support IPV4 and IPV6L3VPN,L2VPN,VPLS,mVPN,IGMP V2/V3,MLD,IGMP and PIM,6PE and 6VPE mode for IPV6 transport over IPV4, ECMP,LDP,BGP Prefix independent control (EDGE and Core) for IPV4 and IPV6,BGP,IS- IS,OSPFv2and V3,RSVP,RRRP Traffic Engineering,Ti-LFA Segment Routing,Segment Routing TE and 6 label stack and SR-LDP interworking,On demand nexthop,SRv6,Anycast SID,IP FRR,LDP FRR(Local and Remote)and SyncE and 1588v2 support from day 1 8 Should Support per-user Authentication, Authorization and Accounting through RADIUS or TACACS.Should Support SNMPV1/V2/V3,NETCONF and YANG Data models 9 Should support '0°C to 65°C operatin temperature and up to 95% relative Humidity 10 The proposed router should support the following day1: - 4x10G and 18x1G interfaces. 4x10G with LR and 2x10G with ER. 6x1G with LX and 6x1G with EX and 6x1G with ethernet Interfaces	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1039	2	226	Design of Distribution and Access Network	Design of Distribution and Access Network	Requesting to add specification of redundant aggregation device at POP location to ensure to cater sufficient performance as mentioned in Design of Distribution and Access Network. Below are minimum suggestion for aggregation : 1 Router should have redundant controller cards and should support state full switch over, non-stop forwarding, Nonstop routing and Graceful restart. 2 Router should be CE3.0 certified. 3 The router shall support following type of interfaces –100G,40G,10GE, 1GE interfaces. 4 Router shall support Switching capacity of 800Gbps Gbps full duplex. 5 Router shall support 400k Mac addresses,1M IPv4/256K IPv6 and 1000VRF,4K Multicast routes,32KMPLS label and 8 label stack 6 Router shall support sub 50 msec protection using BFD,TI-LFA ,RLFA and TE FRR 7 Router shall support IPV4 and IPV6L3VPN,L2VPN,VPLS,mVPN,IGMP V2/V3,MLD,IGMP and PIM,6PE and 6VPE mode for IPV6 transport over IPV4, ECMP,LDP,BGP Prefix independent control (EDGE and Core) for IPV4 and IPV6,BGP,IS- IS,OSPFv2and V3,RSVP,VRP Traffic Engineering,TI-LFA Segment Routing,Segment Routing TE and 6 label stack and SR-LDP interworking,On demand nexthop,SRv6,Anycast SID,IP FRR,LDP FRR(Local and Remote)and SyncE and 1588v2 support from day 1 8 The router must support 1588V2,SYNCE from day 1. 9 Should Support per-user Authentication, Authorization and Accounting through RADIUS or TACACS.Should Support SNMPV1/V2/V3,NETCONF and YANG Data models 10 Should support '0°C to 65°C operating temperature and up to 95% relative Humidity 11 The proposed router should support the following day1: - "2x100G with one 10KM and one 40KM SFP. 24x1/10G. 10G - 8 nos of 10KM SFP and 4 Nos of 40KM SFP 1G-8 nos of 10KM SFP and 4 Nos of 40KM SFP"	As per RFP
1040	2	228	Scope of work Internet Bandwidth at ICCC, Data Center and all field locations	i. PSCL is procuring bulk internet bandwidth for the requirement of various locations throughout the city. SI is required to terminate these links at the desired locations defined as per the price bid format of this RFP. ii. Redundancy iii. As a measure of redundancy remote locations, ICCC, DC & between DC & DR site connected through Leased Circuits should have redundancy in place to meet necessary SLA requirements.	Please clarify the following: 1) Please specify the Bulk internet bandwidth requirement and location of such requirement apart from ICCC building. 2) We understand that ICCC, DC & between DC & DR site connected through through Leased Circuits should be redundant.	As per RFP
1041	2	228	5.5.2. General Specifications	a) IT Data Center complete in all respect (UTP / STP CAT 6A, 10G and 10G fiber (Single Mode OM3 OM4 fiber))	Kindly specify type of Cat6 A cable UTP or STP or SFTP Please confirm fiber type. Single Mode Fiber comes with OS2/OS1	As per RFP
1042	2	228	5.5.2. General Specifications	Structured cabling involves supply, installation, testing and commissioning of all Jackpanels, Network/Server Racks, Laying of cables (FTP/Fiber), Terminations at both end and other passive components	LAN Node detail required for Passive Components.	As per RFP
1043	2	228	General Specifications	c) Backbone between Spine and Leaf switches (Single Mode OM3 fiber) and Spine Switches to Leaf Switches in Hub rooms for sitting area (Multi Mode OM3 fiber).	Require more clarification . Spine and Leaf architecture is different than proposed diagram in RFP , page no 20 .	As per RFP
1044	2	231	Survey & Design Considerations for Technical Architecture & Project Plan	During the contract period of the Project the SI shall be required to repair / replace any equipment if it is burnt/stolen/damaged/faulty due to any reason. Appropriate insurance cover from Nationalized Insurance Company must be provided to all the equipment's supplied under this project till end of O&M period. SI has to provide copy of Insurance Policy at the time of Go-Live for all equipments. In case of annual policy, SI has to provide renewed policy before 15 days of expiry of previous policy. The Insurance will be in the name of Patna Smart City Ltd. The documentation regarding the claims, renewal will be done by SI and this will be signed and approved PSCL.	Kindly amend the clause as " During the contract period of the Project the SI shall be required to repair / replace any equipment if it is burnt/stolen/damaged/faulty due to any reason". The most of Insurance Company does not provide any protection against the stolen activities. we also request, if any damage occurred due to activities which is beyond the control of MSI or PSCL such as riots, attack, national calamities. the SLA & Subsequent penalties on particular equipment or system will not be liable on MSI.	As per RFP
1045	2	231	Technical Specifications	Detailed IIM Specification are given in Annexure	Annexure for IIM Specification not Found. Kindly provide the detailed specification.	Refer <b>Corrigendum-4</b> for detail IIM specification
1046	2	231	Technical Specifications	Detailed IIM Specification are given in Annexure	Please clarify the following: 1) We understand complete network including field switch location will have intelligent patch panel. 2) Please share bill of material for intelligent patch panel for bidding purpose, as actual quantities and cost can't be estimated until detailed survey is approved by PSCL. 3)Please share the detailed specification of IIM.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1047	2	232	Public Address (PA) System	d) The system shall contain an IP based amplifier and uses PoE power which shall drive the speakers. The system shall also contain the control software which shall be used to control/ monitor all the components of the system which include Controller, Calling Station & keypad, Amplifier (Mixing & Booster).	d) The system shall contain an IP based amplifier and uses PoE power (Internal/ External) which shall drive the speakers. The system shall also contain the control software which shall be used to control/ monitor all the components of the system which include Controller, Calling Station & keypad, Amplifier (Mixing & Booster). Request you to ask POE power option either through Amplifier or through any external switch as every OEM have their own design.	As per RFP
1048	2	232	Public Address (PA) System	g) The system shall contain an IP-based amplifier and uses PoE power that could drive the speakers. The system shall also contain the control software that could be used to control/monitor all the components of the system that includes Controller, Calling Station & keypad, Amplifier (Mixing & Booster).	g) The system shall contain an IP-based amplifier and uses PoE power (Internal/ External) that could drive the speakers. The system shall also contain the control software that could be used to control/monitor all the components of the system that includes Controller, Calling Station & keypad, Amplifier (Mixing & Booster). Request you to ask POE power option either through Amplifier or through any external switch as every OEM have their own design.	As per RFP
1049	2	232	Public Address (PA) System	g) The system shall contain an IP-based amplifier and uses PoE power that could drive the speakers. The system shall also contain the control software that could be used to control/monitor all the components of the system that includes Controller, Calling Station & keypad, Amplifier (Mixing & Booster).	This is OEM specific requirement . We request to allow POE/NonPOE power to drive speakers which meets required functionality to maximise OEM participation	As per RFP
1050	2	232	7.11. Functional & Technical Requirements for ANPR System	x. Detailed IIM Specification are given in Annexure	The Specification of IIM is missing in the RFP. Please share & include the same in the Bill of Material for cost or commercial consideration	Refer reply to query at S.No. 1045
1051	2	233	5.6. Public Address (PA) System	Integration : With VMS and Command and Control Centre	Both VMS and PA system will be integrated to ICCC application and SOP can be run from ICCC application. Hence there is no requirement to integrate PA system with VMS separately as they are both integrated with ICCC. Hence requesting to kindly remove the clause.	As per RFP
1052	2	233	5.7. Emergency Call Box (ECB) System	Speaker: To be used for Public Address System	The Public address system and the emergency call box system are entirely different systems and will have different dedicated application software. The speakers of the Emergency Call Box are dedicated for two way ECB communication. Hence requesting to kindly amend the clause accordingly.	As per RFP
1053	2	233	7.11. Functional & Technical Requirements for ANPR System		Request you to ammend with Below specs as per IRC:SP:85:79 Each LED shall be encapsulated with secondary lens.	As per RFP
1054	2	233	7.11. Functional & Technical Requirements for ANPR System	vi. Battery: Internal Battery with different charging options (Solar/Mains)	vi. Battery: Internal/External Battery with different charging options (Solar/Mains) Please clarify in which device internal batteries required or allow both the options - Internal/External.	As per RFP
1055	2	234	Variable Message Sign Boards	Components of the architecture must provide redundancy and ensure that there are no single points of failure in the key project components. To take care of remote failure, the systems need to be configured to mask and recover with minimum outage	Kindly elaborate the detailed hardware and software redundancy requirements. It is not possible to offer a concrete solution based on a generic statement. We suggest removing such generic points.	Refer <b>Corrigendum-4</b> for Variable Message Sign Boards specification
1056	2	235	5.8. Variable Message Sign boards	System shall use open standards and protocols to the extent possible	Kindly specify the exact open standards and protocols the VMSB system is expected to support. The commercials vary based on which communication protocol is used. It is not possible to design a VMSB system based on a generic statement like this.	Refer reply to query at S.No. 1056
1057	2	235	5.8. Variable Message Sign boards	—	Power Back up requirments for VMSB are not mentioned in the RFP. Te ensure uninterrupted operation of the display boards in case of mains power failure,we suggest that the following clause is added - "UPS for one hour power back-up with auto switching facility. The enclosure of UPS and battery should be floor mountable with IP 54/55 protected housing and lockable."	As per RFP
1058	2	237	Variable Message Sign Board application	Components of the architecture must provide redundancy and ensure that there are no single points of failure in the key project components. To take care of remote failure, the systems need to be configured to mask and recover with minimum outage.	Kindly elaborate the detailed hardware and software redundancy requirements. It is not possible to offer a concrete solution based on a generic statement. We suggest removing such generic points	Refer reply to query at S.No. 1056
1059	2	238	5.9.1. Remote Monitoring	Photoelectric sensor shall be positioned at the sign front and sign rear to measure ambient light. Capable of being continually exposed to direct sunlight without impairment of performance	As the display will be single sided, so the Photoelectric sensor will be placed only at front. Please clarify the use of rear side photoelectric sensor.	Refer reply to query at S.No. 1056
1060	2	238	5.9.1. Remote Monitoring	System's Viewing Distance is Suitable for readability from 150 Mtrs. or more at the character size of 240mm, from moving vehicles	For 240mm character size, the viewing distance will be 100 mtr. Please change it to 100 mtr.	Refer reply to query at S.No. 1056
1061	2	242	5.11. Trenching using HDD/ Optical Fibre Cable	5.11. Trenching using HDD/ Optical Fibre Cable	We request you to kindly provide depth details for laying of OFC. Also kindly clarify on the scope of Route markers and Protections required.	As per RFP



S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1062	2	245	5.11.2. Technical Specifications of Single Mode Optical Fibre Cable	1-For 48F MMF (kindly confirm fibre grade in multi-mode fibre) 2-Loose tube Gel Free Cable from 48F to 144F Single Mode (Armoured) - kindly confirm type of armouring ? will it be Metallic or nonmetallic? 3-Cable Sheathing Layers : Single Sheath or Double Sheath 4- Please specify Cable outer diameter maximum (mm) for duct application. 5-Cable design shall be semi dry core type i.e Loose tube with jelly and cable core will be dry. Kindly confirm	1-For 48F MMF (kindly confirm fibre grade in multi-mode fibre) 2-Loose tube Gel Free Cable from 48F to 144F Single Mode (Armoured) - kindly confirm type of armouring ? will it be Metallic or nonmetallic? 3-Cable Sheathing Layers : Single Sheath or Double Sheath 4- Please specify Cable outer diameter maximum (mm) for duct application. 5-Cable design shall be semi dry core type i.e Loose tube with jelly and cable core will be dry. Kindly confirm	As per RFP
1063	2	245	6.1.1.1. Traffic Signal Controller		Please Clarify following 1-For 48F MMF (kindly confirm fibre grade in multi-mode fibre) 2- Loose tube Gel Free Cable from 48F to 144F Single Mode (Armoured) - kindly confirm type of armouring ? will it be Metallic or nonmetallic? 3. Cable Sheathing Layers : Single Sheath or Double Sheath 4. Please specify Cable outer diameter maximum (mm) for duct application. 5. Cable design shall be semi dry core type i.e Loose tube with jelly and cable core will be dry. Kindly confirm	As per RFP
1064	2	247	Table 6 : Fiber Parameters and Values	Fiber joint closures or Splice closures are required to join sequential cable and fiber lengths together, or provide a function for distribution of smaller drop cables. The splice closures would be located based on the length of the fiber being supplied and the No. of cuts being envisaged during the span of next 20 yrs	Fiber joint closures or Splice closures is not reflected in Bill of material. Please propose tentative quantities in Bill of material for Bidding purpose.	As per RFP
1065	2	248	6.1.1.1. Traffic Signal Controller		Kindly share detailed location list of ATCS ,RLVD and PTZ camera latitude and longitude. and number of arms (with number of lanes per arm) to get better understanding and design solution properly.	Visit the area and use your own judgement/ Bid Strategy
1066	2	248	6.1.1.1. Traffic Signal Controller	Site specific configuration data shall be stored in a non-volatile memory device (FLASH memory) easily programmable at the site through keypad or laptop. A minimum of 512KB flash memory and 128KB RAM shall be provided. Volatile memory shall not be used for storing the junction specific plans or signal timings.	Requesting you to revise the clause as follows: "Site specific configuration data shall be stored in a non-volatile memory device (FLASH memory) easily programmable at the site through keypad or laptop. A minimum of 2GB flash memory (inbuilt/external) and 1GB RAM shall be provided. Volatile memory shall not be used for storing the junction specific plans or signal timings. The controller shall have a processor of at least 1GHz or more." Justification: The detectors produce a lot of vehicle by vehicle data which will be lost if the controller memory or the processing power is less.	As per RFP
1067	2	248	6.1.1.1. Traffic Signal Controller	Site specific configuration data shall be stored in a non-volatile memory device (FLASH memory) easily programmable at the site through keypad or laptop. A minimum of 512KB flash memory and 128KB RAM shall be provided. Volatile memory shall not be used for storing the junction specific plans or signal timings.	Requesting you to revise the clause as follows: "Site specific configuration data shall be stored in a non-volatile memory device (FLASH memory) easily programmable at the site through keypad or laptop. A minimum of 512MB flash memory and 128MB RAM shall be provided. Volatile memory shall not be used for storing the junction specific plans or signal timings. " Justification: The detectors produce a lot of vehicle by vehicle data which will be lost if the controller memory or the processing power is less.	As per RFP
1068	2	248	7.11. Functional & Technical Requirements for ANPR System	v. The controller shall provide a real time clock (RTC) with battery backup that set and update the time, date and day of the week from the GPS. The RTC shall have minimum of 10 years battery backup with maximum time tolerance of +/- 2 sec per day.	In Adaptive Traffic Control System Real Time Clock is always updated twice a day by ATCS Application hence 10 years battery backup for RTC is not required and even is not practical, however considering the power failure kind of situation the RTC backup should be for nearly 1 or 2 days, so this clause should be modified as mentioned below: v. The controller shall provide a real time clock (RTC) with battery backup that set and update the time, date and day of the week from the GPS. The RTC shall have minimum of 2 days battery backup with maximum time tolerance of +/- 2 sec per day.	Refer <b>Corrigendum-4</b> in this regard
1069	2	249	6.1. Adaptive Traffic Control System (ATCS)	The controller shall provide a real time clock (RTC) with battery backup that set and update the time, date and day of the week from the GPS. The RTC shall have minimum of 10 years battery backup with maximum time tolerance of +/- 2 sec per day.	The mentioned clause is OEM specification , so we request to the Deptt kindly amend this clause as mentioned below The controller shall provide a real time clock (RTC) with battery backup that set and update the time, date and day of the week from the GPS. The RTC shall have minimum of 5-7 years battery backup with maximum time tolerance of +/- 2 sec per day.	Refer reply to query at S.No. 1068
1070	2	249	6.1.1.1. Traffic Signal Controller	The traffic signal system including controller shall have provision audio output tones and should be disabled friendly for.	As per our understanding it is referred to hooter for pedasian lights .Kindly confirm	As per RFP
1071	2	249	6.1.1.1. Traffic Signal Controller	The traffic signal system including controller shall have provision audio output tones and should be disabled friendly for	Based on the audio output, it will be difficult for the pedestrian to identify how much time is left for right of way. Considering this risk, it is requested to kindly remove the clause from the current RFP.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1072	2	249	6.1.1.1. Traffic Signal Controller	vi. Cycle Plans – The controller shall have facility to configure 24 Cycle Plans and the Amber Flashing / Red Flashing plan. It shall be possible to define different stage switching sequences in different cycle plans. The controller shall have the capability for a minimum of 32 cycle-switching per day in fixed mode of operation.	This requirement is relevant for a non adaptive Traffic Solution where there is no mechanism of detecting the vehicles, as here the desired solution is Adaptive Traffic System in which cycle plans are decided based on real time traffic condition, hence this clause should be modified as mentioned below: vi. Cycle Plans – The controller shall have facility to configure minimum 10 Cycle Plans and the Amber Flashing / Red Flashing plan. It shall be possible to define different stage switching sequences in different cycle plans. The controller shall have the capability for a minimum of 20 cycle-switching per day in fixed mode of operation.	As per RFP
1073	2	250	SOW and Functional Requirement For Integrated Traffic Management System (ITMS) Components: Traffic Signal Controller	Cable less Synchronization – It shall be possible to synchronize the traffic signal controllers installed in a corridor in the following modes of operation, without physically linking them and without communication network. GPS enabled RTC shall be the reference for the cable less synchronization.	The mentioned clause is OEM specification , so we request to the Deptt kindly amend this clause as mentioned below Cable based Synchronization – It shall be possible to synchronize the traffic signal controllers installed in a corridor in the following modes of operation, with physically linking them and with communication network. GPS enabled RTC shall be the reference for the cable based synchronization.	As per RFP
1074	2	250	SOW and Functional Requirement For Integrated Traffic Management System (ITMS) Components:	Detector Interface: A minimum of 16 vehicle detector inputs shall be available in the controller. All detector inputs shall be optically isolated and provided with LED indication for detection of vehicle.	Requesting you to revise the clause as follows: "Vehicle Detector Interface: • Direct interface with detectors from ethernet port. • Compatible to the proposed Camera Based detectors and Radar based detectors" Justification: This basic open collector input is obsolete and is valid for capturing only vehicle presence in defined zones. However, the detailed traffic data generated from the proposed sensors itself would be lost because of it. Hence, it is better to have data transfer via ethernet port. This data would include the conventional vehicle presence data along with classified counts, and other traffic data.	As per RFP
1075	2	250	Traffic Signal Controller	Communication Interface: The traffic signal controller shall support Ethernet interface to communicate with the ATCS server	Requesting you to revise the clause as follows: "Communication Interface: The traffic signal controller shall support Ethernet interface to communicate with the ATCS server over TCP/IP using industry standard protocol such as UG405/NTCIP/OCIT" Justification: These are industry standard protocols that are widely accepted and already has a lot of installations in India.	As per RFP
1076	2	251	6.1.1.2. Countdown Timer:	3. Structural Material: Polycarbonate strengthened against UV rays	Count Down Timers work only when the system is Non Adaptive i.e. Fixed Time because to start displaying the remaining time it should know what is the total time, but in Adaptive system stage time as well as cycle time varies everytime based on the real time traffic density, it can not display the time in real time system. Also there is no communication interface mandatorarily required in Count Down Timers, because it takes the required inputs from the controller itself or traffic lights installed on the same pole in the form of Red, Amber and Green voltage. As here the desired solution is Adaptive in which cycle and stage timing will keep on changing everytime depending on the real time traffic. Therefore the Count Down Timers will not display the remaining time when run in real adaptive mode. Hence Count Down Timers and its specifications should be removed from the RFP. OR If Count Down Timers working in Fixed Time mode only and displaying GO/STOP/ATC on Count Down Timer display when working under real time vehicle actuated or ATCS mode, are acceptable then please modify the specifications as mentioned below: 3. Structural Material: Polycarbonate/Aluminium/any metal strengthened against UV rays	As per RFP
1077	2	251	6.1.1.2. Countdown Timer:	No. of Digit 3	Requesting you to revise the clause as follows: "No. of Digit 3 upto 199" Justification: In the proposed size digits upto 199 are only possible	As per RFP
1078	2	251	Countdown Timer	Dimensions:360mm x 370mm x 220mm	Requesting you to revise the clause as follows: Dimensions:360mm x 370mm x 220mm or similar Justification: The mentioned dimensions are very specific and all the OEMs may not have the same kind of die for housing.	As per RFP
1079	2	251	6.1.1.2. Countdown Timer:	Technical requirement of Countdown Timer 5) Dimensions:360mm x 370mm x 220mm 7 )Lamp Diameter : 300mm	It is not possible to fulfill asked requirements mechanically as Sr no. 5 is asking rectangular dimensions and Sr 7 is asking Circular dimensions . We request to change criteria as below Dimensions:360mm x 370mm x 220mm or Lamp Diameter : 300mm To meet envisaged functionality	As per RFP
1080	2	252	Countdown Timer: Junction Boxes	Each box shall be equipped with certified cable glands/plug and with earthing bar.	Please share Earthing specification for Junction.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1081	2	252	ATCS Application Software Requirement	ATCS Application Software Requirement: Additional Clause:	Requesting you to add the following clause: "As part of ATCS, a secure mobile application shall be provided for emergency/VIP vehicles without GPS devices for providing selective vehicle priority with following features: o Role-based selective user login o Emergency mode on/off o Auto timeout feature of the emergency mode o GPS based location information to the ATCS system" Justification: This will enable the city to provide vehicle priority to vehicles at a short notice without having to install and maintain additional hardware on vehicles.	As per RFP
1082	2	253	6. SOW and Functional Requirement For Integrated Traffic Management System (ITMS) Components:	22. Shall have the ability to predict, forecast and smartly manage the traffic pattern across the signals over the next few minutes, hours or 3-5 days and just in the current real time.	As the Adaptive Traffic Control System works as per real time traffic detection hence this clause should be modified as: 22. Shall have the ability to smartly manage the traffic pattern across the signals over the current real time.	As per RFP
1083	2	253	6.1.1.1. Traffic Signal Controller	The system shall have provision to configure priority for upstream signals as default. The ATCS software shall continuously check the traffic demand for upstream and downstream traffic and automatically assign the priority route to the higher demand direction	Requesting you to kindly remove "automatically assign the priority route" as this will impact the corridor synchronization.	As per RFP
1084	2	253	ATCS application software requirement	Identify the critical junction of a corridor or a region based on maximum traffic demand and saturation.	On history data this can be provided which needs time that data is gathered. Only one corridor in or out is available whole junction not available. Kindly confirm	As per RFP
1085	2	253	SOW and Functional Requirement For Integrated Traffic Management System (ITMS) Components	Graphically present signal plan execution and traffic flow at the intersection on desktop	As per our understanding bidder has to provide On junction click . Kindly confirm	As per RFP
1086	2	253	SOW and Functional Requirement For Integrated Traffic Management System (ITMS) Components	Graphically present time-space diagram for selected corridors on desktop	as per our understanding bidder shall provide web application for diagram.	As per RFP
1087	2	253	6.1.2. ATCS application software requirement	19. Make available the network status and report viewing on Web	Most of the local as well as globally proven solution do not have web browser based access to the ATCS application, they have their own application setup file and after their installation they provide their own GUI for all of its ATCS related operation. Hence the clause should be modified as mentioned below: 19. Make available the network status and report viewing on Web Browser or local GUI.	As per RFP
1088	2	253	6.1.2. ATCS application software requirement	It shall be possible to interface the ATCS with popular microscopic traffic flow simulation software for pre and post implementation analysis and study of the proposed ATCS control strategy"	Requesting you to revise the clause as follows: "The application shall interface with a popular microscopic traffic flow simulation software for pre and post implementation analysis which shall be based on real time traffic flow modelling capability with the capacity to calculate traffic flows, OD movements and turning movements along entire primary road transport network. In addition, the simulation should interface with an offline instance of the ATCS system in order to carry out what-if analyses of traffic control strategies. The system should be able to provide an estimate of a Performance Index of the chosen strategy versus alternative strategies. The simulation model along with ATCS shall thus assist the traffic engineers / police to identify the best possible strategy in planning for any unusual / unprecedented event." Justification: The online simulation model will assist traffic police/operators to visualise the on-ground issues better and act pro-actively by evaluating multiple strategies.	As per RFP
1089	2	253	6.1.2. ATCS application software requirement	It shall be possible to interface the ATCS with popular microscopic traffic flow simulation software for pre and post implementation analysis and study of the proposed ATCS control strategy	The mentioned clause is OEM specific , so we request to the Deptt . Kindly remove this clause	As per RFP
1090	2	253	6.1.2. ATCS application software requirement	Shall have the ability to predict, forecast and smartly manage the traffic pattern across the signals over the next few minutes, hours or 3-5 days and just in the current real time.	as per our understanding bidder has to provide Prediction model , that generates hourly based data . Kindly confirm.	As per RFP
1091	2	253	6.1.2. ATCS application software requirement	Shall have the ability to predict, forecast and smartly manage the traffic pattern across the signals over the next few minutes, hours or 3-5 days and just in the current real time.	Prediction and forecast of traffic pattern features for ATC is limited to certain OEM and not really proven. This also does not support bidder to propose other efficient and widely used ATC solution. Hence authority is requested to allow the bidder to propose a solution without traffic forecast and prediction related features.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1092	2	253	ATCS application software requirement	Cycle optimization shall be carried out by increasing or decreasing the common corridor cycle time based on the traffic demand within the constraints of Minimum and Maximum designed value of cycle time.	Please elaborate , does this belong to adaptive algorithm	As per RFP
1093	2	253	6.1.2. ATCS application software requirement	Propose timing plans to every intersection under the ATCS in every Cycle	As per Our understanding bidder shall provide cycle time for after every 5 minutes for adaptive ? Kindly confirm	As per RFP
1094	2	253	6.1.2. ATCS application software requirement	Offset correction shall be carried out to minimize number of stops and delays along the corridor for the priority route. Offset deviation measured using distance and speed between successive intersections shall be corrected within 5 cycles at a tolerance of +/- 5 seconds maximum.	does this refer to va with offset and fixed width offset ? Elaborate it further	As per RFP
1095	2	253	6.1.2. ATCS application software requirement	The critical junction cycle time shall be used as the group cycle time i.e. cycle time common to all intersection in that corridor or region.	Kindly elaborate further Is it Highest cycle time of junction and allocate to all ?	As per RFP
1096	2	254	6.1.2. ATCS application software requirement	Shall provide a decision support tool for assessing strategies to minimize congestion, delays and emergency response time to events via simulation and planning tools liked with real time traffic data fusion and control of traffic signalling infrastructure on	kindly confirm Will it be 3rd party tool here .	As per RFP
1097	2	254	6.1.2. ATCS application software requirement	Shall provide a decision support tool for assessing strategies to minimize congestion, delays and emergency response time to events via simulation and planning tools liked with real time traffic data fusion and control of traffic signaling infrastructure on ground.	Requesting you to revise the clause as follows: "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. Shall provide a decision support tool for assessing strategies to minimize congestion, delays and emergency response time to events via simulation and planning tools liked with real time traffic data fusion and control of traffic signaling infrastructure on ground." Justification: The calibrated models would ensure the proper functioning of ATCS in tandem with simulation.	As per RFP
1098	2	254	6.1.2. ATCS application software requirement	35. Enable a smart public transport priority respecting the delays for all road users at once with the adaptive signal controller	Transit Signal Priority is a separate system and ATCS Application should be capable to integrate that system. Hence this specification should be modifies as: 35. The ATCS System shall be capable to integrate with Transit Signal Priority system to enable a smart public transport priority respecting the delays for all road users at once with the adaptive signal controller	As per RFP
1099	2	254	6.1.2. ATCS application software requirement	23. Shall provide a decision support tool for assessing strategies to minimize congestion, delays and emergency response time to events via simulation and planning tools liked with real time traffic data fusion and control of traffic signaling infrastructure on ground.	As the ATCS application has various components in it, and there is no additional decision support tool required for ATCS operation and timing optimization etc. hence this clause should be modified as mentioned below: 23. Shall provide assessing strategies to minimize congestion, delays and emergency response time with real time traffic data fusion and control of traffic signaling infrastructure on ground.	As per RFP
1100	2	254	6.1.2. ATCS application software requirement	Additional Clause:	Requesting you to add the following clause: "ATCS shall be capable of simultaneous two or more pre-emption plans for each emergency. In the event that two or more conflicting route Pre-emption requests are received (i.e., the routes contain the same junction), the first request shall be honored and all subsequent requests for conflicting routes shall be disallowed, with appropriate notification made to the request initiator." Justification: This would enable better handing of multiple emergency movements at the same time	As per RFP
1101	2	254	6.1.2. ATCS application software requirement	Additional Clause:	Requesting you to add the following clause: "The application shall have a dedicated green corridor functionality which shall provide an option to generate the green corridors by selecting a set of junctions (which may be part of different ATCS corridors as well) from the control room." Justification: It is needed for enabling the quick movement of ambulances and other vip vehicles	As per RFP
1102	2	254	6.1.2. ATCS application software requirement	Shall collect continuously information about current observed traffic conditions from a variety of data sources and of different kind (traffic states, signal states, vehicle trajectories, incidents, road works, etc.).	as per our understanding bidder has to provide incident ( Junction closed or camera closed ) and Camera data. Kindly confirm .	As per RFP
1103	2	254	6.1.2. ATCS application software requirement	Shall distribute both collected and calculated traffic information via a variety of communication protocols and channels, ensuring high interoperability degree and thus acting as a "traffic data and information hub"	as per our understanding bidder has to store all on server .Kindly confirm .	Yes, your understanding is correct

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1104	2	254	6.1.2. ATCS application software requirement	Shall collect continuously information about current observed traffic conditions from a variety of data sources and of different kind (traffic states, signal states, vehicle trajectories, incidents, road works, etc.).	Request you to ammend with "Shall collect continuously information about current observed traffic conditions from a variety of data sources and of different kind (traffic states, signal states, vehicle presence) using vehicle detectors."	As per RFP
1105	2	254	6.1.2. ATCS application software requiremen	24. Shall collect continuously information about current observed traffic conditions from a variety of data sources and of different kind (traffic states, signal states, vehicle trajectories, incidents, road works, etc.).	As the ATCS system needs only the real time traffic information and road works, vehicle trajectories, incedents etc. are not required, hence this clause should be modified as mentioned below: 24. Shall collect continuously information about current observed traffic conditions from a variety of data sources and of different kind (traffic states, signal states, vehicle presence) using vehicle detectors.	As per RFP
1106	2	254	6.1.2. ATCS application software requirement	Shall infer a coherent and comprehensive observed traffic state (speeds, vehicular densities, and presence of queues) on all network elements, from abovementioned observations, including vehicle trajectories, through a number of map matching, data validation, harmonization and fusion processes).	Request you to ammend with "Shall infer a coherent and comprehensive observed traffic state (speeds, vehicular densities, and presence of queues) from above mentioned observations."	As per RFP
1107	2	254	6.1.2. ATCS application software requirement	Shall forecast the traffic state with respect to current incidents and traffic management strategies (e.g. traffic signal control or variable message signs), improving the decision making capabilities of the operators even before problems occur.	Request you to ammend with "Shall forecast the traffic state with respect to current incidents and traffic management strategies improving the decision making capabilities"	As per RFP
1108	2	254	6.1.2. ATCS application software requirement	Shall generate alerts to the operator that trigger on customizable conditions in the network (starting with simple drops in flow, up to total queue lengths along emission sensitive roads surpassing a definable threshold)	Request you to ammend with "Shall generate alerts to the operator that trigger on customizable conditions in the network (starting with simple drops in flow, up to total queue lengths)"	As per RFP
1109	2	254	6.1.2. ATCS application software requirement	29. Shall provide calculated traffic flows estimation and forecast, queues and delays to Urban Control and Adaptive Signal Control Systems, allowing for proactive Traffic Management and Control	As the ATCS system works on the basis of real time vehicle detection and optimizes the time on the basis of gap time between two vehicle on the stop line and reduces the queue. Queue length calculation is not required for ATCS operation, also as the system optimizes the time as per real time traffic condition, futurestic time can not be calculated and forecasted. Hence this clause should be modifies as mentioned below: 29. Shall provide calculated traffic flows estimation to Urban Control and Adaptive Signal Control Systems, allowing for proactive Traffic Management and Control.	As per RFP
1110	2	255	6.1.2. ATCS application software requirement	Lamp Status Report – The report shall show lamp failure report with date and time of failure, color of the lamp and associated phase.	The mentioned clause is OEM specific , so we request to the Deptt . Kindly Amend this clause . As mentioned below Lamp Status Report – The report shall show lamp failure report with date and time of failure, colour of the lamp and associated phase.	As per RFP
1111	2	255	6.1.2. ATCS application software requirement	Intensity Change – The report shall show the brightness of the signal lamp is changed according to the light intensity either manually through keypad or automatically by LDR with time stamp.	The Traffic Lights proposed in this RFP are LOW power LED and hence intencity change function is not required. Thus we request you to omit this.	As per RFP
1112	2	255	6.1.2. ATCS application software requirement	Reports Printing / Viewing – This link shall allow selection, viewing and printing of different reports available under ATCS	As per our understanding bidder has to provide feature of downloading reports in excel or pdf	As per RFP
1113	2	255	6.1.2. ATCS application software requirement	It should be possible to freeze and resume online plotting of Time-Space diagram.	The mentioned clause is OEM specific , so we request to the Deptt . Kindly Delete this clause .	As per RFP
1114	2	256	6.1.1.1. Traffic Signal Controller	The vehicle detector should Forward firing technology multilane radar/video based technology with 4D object tracking with HD resolution. The sensor should be capable of working in fog, rain and without any requirement of cleaning and can provide precise information on counting , classification queue length for at least 175 meters for all stopped and moving vehicles.	As per current Specifications, single OEM is qualifying for Adaptive Traffic Control System. We request to please change the specification for broad competition. We request you to provide relaxation on the same and share revised compliance.	Proposed solution should meet 100% functional requirement of the project, Video based sensor specifications shall supersede the specifications of radar based sensor specs (wherever applicable) Refer <b>Corrigendum -4</b> in this regard
1115	2	256	6.1.1.1. Traffic Signal Controller	The vehicle detector should Forward firing technology multilane radar/video based technology with 4D object tracking with HD resolution. The sensor should be capable of working in fog, rain and without any requirement of cleaning and can provide precise information on counting , classification queue length for at least 175 meters for all stopped and moving vehicles.	Most of the Vehicle detector sensor specs favouring the radar technology creating restrictions in tender participation for reputed OEMs like us who offers proven vehicle detection technology based on video. Kindly make the specs more generous for fair participation of all proven & reputed OEMS. Please include a note in addition to specs mentioning below " Specifications which are not relevant for video based sensor technology will supersede the specs of radar wherever applicable, meeting the 100% functional requirement of the project."	Refer reply to query at S.No. 1114
1116	2	256	6.1.2. ATCS application software requirement	Speed lines shall be plotter for stages identified for synchronization to the nearest intersection in both directions.	We request to the Deptt . Kindly elaborate it further ?	As per RFP

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1117	2	256	6.1.2. ATCS application software requirement	37. Facility shall be available to plot the time-space diagram from history.	Time Space Diagram is used to display current running stage/phase of various junctions which are located at some distance. This can be viewed in the live condition only hence this clause should be removed.	As per RFP
1118	2	256	6.1.3. Detailed Specifications for Vehicle Detector Sensor Sr. No Description	The vehicle detector should Forward firing technology multilane radar/ video based technology with 4D object tracking with HD resolution. The sensor should be capable of working in fog, rain and without any requirement of cleaning and can provide precise information on counting, classification queue length for at least 175 meters for all stopped and moving vehicles..	There is no mention of Radar System in the BoQ, also the detailed technical specifications of Radar System are not given for Vehicle Detection or otherwise. Hence, we request you to kindly make the overall specifications more generic and suitable to both acceptable technology to provide level playground and opportunity for fair participation to all proven & reputed OEMS. So, please include a note in addition to specs mentioning below "Proposed solution should meet 100% functional requirement of the project, Video based sensor specifications shall supersede the specifications of radar based sensor specs (wherever applicable)"	Refer reply to query at S.No. 1114
1119	2	256	Detailed Specifications for Vehicle Detector Sensor	Detailed Specifications for Vehicle Detector Sensor	All the Specs of Vehicle detector sensor are favouring particular OEM of radar technology . This creating restrictions in tender participation for reputed OEMs who offer proven vehicle detection technology based on video. Kindly make the specs more generous for fair participation of all proven & reputed OEMS.Please include a note in addition to specs mentioning below "Specifications which are relevant for video based sensor technology will supercede thespecs of radar wherever applicable,meetingthe100%functionalrequirement of the project."	Refer reply to query at S.No. 1114
1120	2	256	6.1.3. Detailed Specifications for Vehicle Detector Sensor	6.1.3. Detailed Specifications for Vehicle Detector Sensor	The specifications for ATCS vehicle detector is pertaining to Radar solution, restricting majority of the OEMs. Kindly relax the specifications to include video based solution	Refer reply to query at S.No. 1114
1121	2	256	6.1.3. Detailed Specifications for Vehicle Detector Sensor	The sensor should have a detection range of 3m to 175 meters.	Though Radar as well as Video based technology is acceptable in the RFP, but the core specifications are following Radar technology only and hence posing restrictions for reputed & proven Video based vehicle detector OEM's, including us. Hence, we request you to kindly make the overall specifications more generic and suitable to both acceptable technology to provide level playground and opportunity for fair participation to all proven & reputed OEMS. So, please include a note in addition to specs mentioning below "Proposed solution should meet 100% functional requirement of the project, Video based sensor specifications shall supercede the specifications of radar based sensor specs (wherever applicable)"	Refer reply to query at S.No. 1114
1122	2	257	5.2.1.26. Functional & Technical Requirement for SIEM	5.2.1.26. Functional & Technical Requirement for SIEM	Request you to add SIEM in BOM and in price schedule for fair participation	SIEM is already a included in BOQ of RFP.
1123	2	257	5.2.1.26. Functional & Technical Requirement for SIEM	5.2.1.26. Functional & Technical Requirement for SIEM	Request you to add SIEM in BOM and in price schedule for fair participation. Also kindly remove monopolistic specifications for SIEM to enable fair participation of OEMs.	Refer reply to query at S.No. 1122
1124	2	260	Automatic Number Plate Recognition (ANPR) System	ANPR System should function in centralized architecture on GPU based servers in Data Center.	LPU based processing have multiple benefits over central processing as mentioned below. Very less bandwidth is required for LPU based processing During network beardown it will keep storing data locally and send data after restoration of network connectivity. provides improved ROI. Hence we request you to amend the clause as: "ANPR System should function in LPU based distributed architecture."	ITMS System should function in LPU / GPU Server based distributed / Centralized architecture to meet the functional requirements as outlined in the RFP without any degradation in system performance ensuring NO false alerts of traffic violations. Refer <b>Corrigendum -4</b> in this regard
1125	2	260	Automatic Number Plate Recognition (ANPR) System	ANPR System should function in centralized architecture on GPU based servers in Data Center.	LPU based processing have multiple benefits over central processing as mentioned below. Very less bandwidth is required for LPU based processing During network beardown it will keep storing data locally and send data after restoration of network connectivity. provides improved ROI. Hence we request you to amend the clause as: "ANPR System should function in LPU based distributed architecture."	Refer reply to query at S.No. 1124
1126	2	260	6.3. Traffic Violations and Enforcement System	Location Matrix	Authority is requested to share the list of locations to implement all traffic violation, enforcement system and ATCS system along with the count of ARM and Lanes. This is mandatory for bidder to propose optimized and complete solution.	Visit the area and use your own judgement/ Bid Strategy



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1127	2	261	Traffic Violations and Enforcement System	d.The system must have in-built tool to facilitate the user to compose detail evidence by stitching video clips from any IP camera in the junction (including but not limited to the red light violation detection camera, evidence camera), and any other surveillance cameras in the vicinity of the spot of incidence.	The RLVD system consist of ANPR camera per lane which capture clear image of the violating vehicle along with the number plate and evidence camera per road (wide angle camera) to cover the status of traffic signal light, violating vehicle wide angle view etc. But the surveillance camera at the junctions is a separate system and is not possible to stitch the footage from surveillance camera along with the RLVD violation images. So request to remove this clause.	Refer <b>Corrigendum-4</b> regarding deletion of this condition.
1128	2	261	6.3. Traffic Violations and Enforcement System	Training of Employers Personnels	Please confirm that all the costs associated with travelling boarding and lodging, including out of the pocket expenses etc. of Authority's personnels shall be borne by Authority during any training.	As per RFP
1129	2	261	6.3. Traffic Violations and Enforcement System	Traffic Violations and Enforcement System Free left Violation - Entire section	Since the cameras are placed in back-side of the vehicle to detect violation and number plate, free left violation is actually done by the vehicles in front but the camera will be capturing the license plate of the last vehicle standing in the end. Such vehicle is not even doing any violation but actually is the victim of the situation. For capturing the license plate of the vehicle standing in the front, an additional camera at each left slip will be required along with additional infrastructure such as additional pole, Local processing unit etc... The feasibility and accuracy will further depends upon site specific view available in the camera Field of View. Kindly clarify on the position of camera this requirement else update the camera BoQ considering additional cameras to be placed in front.	Free Left violation detection (FLVD) is not in the current scope of this RFP
1130	2	261	6.3. Traffic Violations and Enforcement System	System should have the facility to provide the live feed of the camera at the central command centre. System should generate Alarms at control room software if any signal is found not turning RED within a specific duration of time. The following Traffic violations to be automatically detected by the system by using appropriate technology. The Evidence camera should also be used for evidence snap generation minimum for Red Light Violation, Stop Line Violation, Wrong left turn violation, Wrong direction driving violation.	In General the back license plate is captured during Red Light Violation Detection. In case of Wrong directing movement, using same system will capture the front license plate of the violating vehicle. During night time due to headlight of the vehicle, it will be difficult to capture the front number plate. Hence requesting you to kindly consider Wrong direction driving violation as a separate system and add the same in the Bill of materials.	As per RFP
1131	2	261	6.3. Traffic Violations and Enforcement System	a. The Evidence camera should also be used for evidence snap generation minimum for Red Light Violation, Stop Line Violation, Wrong left turn violation, Wrong direction driving violation.	Wrong left turn violation, Wrong direction driving violation to be removed from RLVD	Wrong Left and wrong direction Violation is not in the current scope of this RFP
1132	2	263	6.3. Traffic Violations and Enforcement System	The application software should be integrated with the e-Challan/Vahan software for tracing the ownership details of the violating vehicle and issuing/printing notices. Any updates of the software (OS, Application Software including any proprietary software), shall be updated free of cost during the contract period by MSI.	We request to you to accept "PSCL to facilitate all required support to get the integration done with NIC Vaahan Database as NIC may not/have restrictions to provide the data to any private agency	MSI is the responsible for the required integration with NIC Vaahan Database. In this regard PSCL will help to MSI for necessary interface for integration purpose
1133	2	264	6.6. Traffic Sensors Lights and Signals	Traffic Lights: Key Features: n. Power supply: Redundant	Redundant power supply is already provisioned at Traffic Controller thru UPS backup. Kindly remove this clause	As per RFP
1134	2	264	Traffic Sensors Lights and Signals	Appropriate controller technology may be chosen to provide the operational levels and accuracy as required for successful function of the ATCS system as per the SLAs defined. The proposed traffic controller shall be disabled friendly and shall also provide audio tones output	As per our understanding it is referred to hooter based audio tones kindly confirm	As per RFP
1135	2	265	6.6. Traffic Sensors Lights and Signals	LED shall be single source narrow beam type with clear lens & Luminance uniformity of 1:15	Kindly clarify whether to use clear lens LED aspect or Convex Tinted Lens as mentioned in Point No. P as one is contradictory to the other	As per RFP
1136	2	265	6.6 Traffic Sensors Lights and Signals	Power supply: Redundant	Requesting you to revise the clause as follows: "Power supply: Redundant or 12/24VDC" Justification: DC lights are more safe as they avoid electrocution and helps to achieve pedestrian safety on the poles.	As per RFP
1137	2	265	Traffic Sensors Lights and Signals	Dominant Wavelength (nm): ✓ Red 630 ✓ Amber 590 ✓ Green 505 - 520	we request you to kindly amend the clause as below:- Dominant Wavelength (nm): ✓ Red 613.5 - 631nm ✓ Amber 585 - 597nm ✓ Green 498.5 - 510 nm	As per RFP
1138	2	266	CCTV Surveillance System	CCTV Surveillance System - Design parameter	At a moment of time how many cameras to be viewed at ICC.	As per RFP
1139	2	266	CCTV Surveillance System	CCTV Surveillance System - Design parameter	Please provide camera bitrate /resolution/frame rate at which the Surveillance CCTV cameras are to be recorded?	As per RFP
1140	2	266	CCTV Surveillance System	CCTV Surveillance System - Design parameter	Please provide camera bitrate /resolution/frame rate at which the Surveillance CCTV cameras are to be viewed at ICC.	As per RFP
1141	2	266	CCTV Surveillance System	CCTV Surveillance System - Design parameter	Provide the data retention period for Surveillance camera video feeds at the - a) Data Center (DC) site b) Disaster Recovery (DR) site?	As per RFP

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1142	2	266	7.1. Scope of Work	k. OEM of CCTV should be registered in India for last 5 years directly and not through distributor or Joint Venture. Proof of the same should be attached with the Technical bid.	OEM Should have service center across india and local center in bihar/patna	As per RFP
1143	2	266	7.1. Scope of Work	l) OEM of CCTV shall have local support centre.	Request you to allow to open a local support centre with in 60 days after the release of work order.	As per RFP
1144	2	266	7.1. Scope of Work	a. All the network cameras supplied must be certified for: FCC, CE and UL (Certificates to be enclosed)	In the technical compliance of camera you have already consider the UL/BIS where as BIS is equivalent Indian standard against UL foreign Certificate. Requesting you to amend the Clause as: All the network cameras supplied must be certified for: FCC, CE and UL/BIS (Certificates to be enclosed)	As per RFP
1145	2	266	7.1. Scope of Work	a. All the network cameras supplied must be certified for: FCC ,CE and UL (Certificates to be enclosed)	Kindly amend the parameter as "All the network cameras supplied must be certified for: FCC ,CE and UL/BIS (Certificates to be enclosed)", as the same certification asked in the Camera Specification only. Hence to make the uniformity this is required.	As per RFP
1146	2	266	CCTV Surveillance System: Scope of Work	c. Ability to support use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.	c) Ability to support use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams. Request you to remove these specifications as these are limiting the OEMs.	As per RFP
1147	2	266	CCTV Surveillance System: Scope of Work	c. Ability to support use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.	Camera can support HTTPS and SSL/TLS but upload signed certificate is OEM specific feature. So we are requesting you to remove this feature and make the specification generic so that other reputed Indian OEM can participate in the tender. Requesting you to amend the Clause as: Camera should support HTTPS and SSL/TLS for secure Authentication and communication	As per RFP
1148	2	266	CCTV Surveillance System: Scope of Work	c. Ability to support use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.	Kindly amend the parameter as "Ability to support use of HTTPS authentication and SSL/TLS encryption to encrypt and secure authentication and communication of both administration data and video streams". This will allow reputed CCTV OEMs to proposed their solution.	As per RFP
1149	2	266	CCTV Surveillance System: Scope of Work	c. Ability to support use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.	We understand VMS shall have provision to configure signed certificates. Please confirm.	Yes, your understanding is correct
1150	2	266	CCTV Surveillance System	d) The Camera shall support IEEE 802.1X authentication, Password protection, IP address filtering, HTTPS encryption, Digest authentication, User access log, Centralized certificate management	d) The Camera shall support IEEE 802.1X authentication, Password protection, IP address filtering, HTTPS encryption, Digest authentication, User access log, Centralized certificate management Request you to remove these specifications as these are limiting the OEMs.	As per RFP
1151	2	266	CCTV Surveillance System -Scope of Work	d. The Camera shall support IEEE 802.1X authentication, Password protection, IP address filtering, HTTPS encryption, Digest authentication, User access log, Centralized certificate management	Kindly amend the parameter as "The Camera shall support IEEE 802.1X authentication, Password protection, IP address filtering, HTTPS encryption, Digest authentication and User access log". This will allow reputed CCTV OEMs to proposed their solution.	As per RFP
1152	2	266	7.1. Scope of Work	m. All the cameras shall have ability to change the GOP/ GOV for Bit rate optimization.	Kindly amend the parameter as "All the cameras shall CBR and VBR for Bit rate optimization". This will allow reputed CCTV OEMs to proposed their solution.	As per RFP
1153	2	266	7.1. Scope of Work	m) All the cameras shall have ability to change the GOP/ GOV for Bit rate optimization	The latest compression technology of H.265 saves 50% bandwidth and storage consumption, keeping the same image level performance as H.264, hence there's no need of GOV/GOP also this term is brand specific. Thus, requesting you to remove the GOV length clause.	As per RFP
1154	2	266	7.1. Scope of Work	m. All the cameras shall have ability to change the GOP/ GOV for Bit rate optimization.	The latest compression technology of H.265 saves 50% bandwidth and storage consumption, keeping the same image level performance as H.264, hence there's no need of GOV/GOP also this term is brand specific. Thus, requesting you to remove the clause	As per RFP
1155	2	267	7. CCTV Surveillance System	o) All cameras shall have ability to send and receive triggers to perform any action without intervention of VMS.	The camera shall be able to send and received trigger directly from any other camera which is possible only through processing unit (Network Video Recorder) Thus, requesting you to ammend the clause to All cameras shall be able to send and received trigger directly from any other camera with hardware unit.	As per RFP

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1156	2	267	Overview : Following is an indicative scope of work;	GIS Base Map shall be supplied and integrated by the SI at 1:1000 scale or better with all surveillance cameras located on the map apart from the updated map of all buildings, utilities and roads. Field survey needs to be done by the SI. SI is required to update GIS maps from time to time. GIS data need to be created that supports rule based model on industry standards such as Topology, Spatial connectivity rules, relationship, GIS layer domains and subtypes, GIS Geometric network, industry specific editing rules and future scalability. SI is suggested to visit government departments for review and better understanding of available data with them.	Does PSCL supply the 1:1000 scale Base Map? If SI need to survey, the volumetrics is required which are not given in the RFP. Kindly provide the same,	Refer reply to query at S.No. 289
1157	2	267	Overview : Following is an indicative scope of work;	e) SI shall undertake detail assessment for integration of the Surveillance System with the Geographical Information System (GIS) so that physical location of cameras are brought out on the GIS map. SI is required to carry out the seamless integration to ensure ease of use of GIS in the Surveillance System Applications/ Dashboards in Command Control Centres. GIS Base Map shall be supplied and integrated by the SI at 1:1000 scale or better with all surveillance cameras located on the map apart from the updated map of all buildings, utilities and roads. Field survey needs to be done by the SI. SI is required to update GIS maps from time to time. GIS data need to be created 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. SI is suggested to visit government departments for review and better understanding of available data with them.	1- Base map supply is in PSCL scope whereas it is mentioned in SI scope. 2- SI scope is limited to smart update the smart elements from time to time. 3- Base map is supplied by PSCL, SI scope is to import the vector data into the DB, data sanity responsibility lies with PSCL.	Refer reply to query at S.No. 289
1158	2	267	Overview : Following is an indicative scope of work;	e) SI shall undertake detail assessment for integration of the Surveillance System with the Geographical Information System (GIS) so that physical location of cameras are brought out on the GIS map. SI is required to carry out the seamless integration to ensure ease of use of GIS in the Surveillance System Applications/ Dashboards in Command Control Centres. GIS Base Map shall be supplied and integrated by the SI at 1:1000 scale or better with all surveillance cameras located on the map apart from the updated map of all buildings, utilities and roads. Field survey needs to be done by the SI. SI is required to update GIS maps from time to time. GIS data need to be created 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. SI is suggested to visit government departments for review and better understanding of available data with them.	As per our understanding GIS Base Map data shall be supplied by Patna Smart City Limited whereas integration of the existing data into GIS application has to be done by MSI. Kindly confirm if our understanding is done.	Refer reply to query at S.No. 290
1159	2	267	Overview : Following is an indicative scope of work;	e) SI is required to update GIS maps from time to time.	Please clarify the interval of updating the GIS Maps and what will be the source to update the base map.	Refer reply to query at S.No. 291
1160	2	267	Overview : Following is an indicative scope of work;	e) GIS data need to be created 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.	To meet this requirement, GIS Desktop software will be needed for data updation and data creation. So, PI clarify about the number of GIS desktop to be considered in Bill of material.	Refer reply to query at S.No. 292
1161	2	267	Overview : Following is an indicative scope of work;	e) GIS Base Map shall be supplied and integrated by the SI at 1:1000 scale or better	We understand the base map of scale 1: 1000 will be provided by PSCL and GIS system should consume the GIS base map layer to publish map service and integrate with surveillance system. Is our understanding correct ?	Refer reply to query at S.No. 293
1162	2	268	5.2.3.8. Functional & Technical Requirements for Identity Access Management	The Proposed VMS Solution Shall support native Fail over with in application with no dependency on any external application for both hardware and application redundancy. The native fail over architecture must be for both management and recording servers.	This is proprietary specification related to one specific OEM. Failover through third party application/ clustering should also be approved, if it meets the functionality of Failover required by customer	As per RFP
1163	2	268	CCTV Surveillance System: Scope of Work	i) For the successful commissioning & operation of the edge devices and to provide the video feeds to Command Control Centre, the SI will be required to provide electricity to the edge devices through the aggregation points.	We understand providing power upto aggregation point will be in Client scope. Please confirm.	As per RFP

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1164	2	269	7.3. Functional and Technical Requirements for VMS	The Application shall support Direct Multicast from Camera. For network topologies that restrict the Application from sending multicast streams, the application shall redirect audio/video streams to active viewing clients on the network using multicast directly from cameras and the architecture should not use Multicast streaming via recording servers or any other servers and increase the overall compute capacity of Recording servers.	This is proprietary specification related to one specific OEM. audio/video streaming from camera to client should always be through recording server as it secures the communication. Direct streaming from camera to client is not secure and encrypted.	As per RFP
1165	2	270	7.3. Functional and Technical Requirements for VMS	2.16 Event or alarm lists shall span anywhere from a portion of the screen up to the entire screen and shall be resizable by the user. The length of event or alarm lists shall be user-defined. Scroll bars shall enable the user to navigate through lengthy lists of events and alarms.	Pls delete such minute screen level implementation requirements that is very much vendor specific. Instead lets add that the operator can see the list of recently viewed cameras. That will be very helpful for a scaled operation	As per RFP
1166	2	270	7.3. Functional and Technical Requirements for VMS	2.17 The Monitoring UI shall support multiple display tile patterns (e.g. 1 display tile (1x1 matrix), 16 tiles (8x8 matrix), and multiple additional variations).	To support 16 tiles 4X4 is sufficient. 8x8: 64 Cameras. Hope 4 x 4 is Ok.	As per RFP
1167	2	271	7.3. Functional and Technical Requirements for VMS	2.19 The Monitoring UI shall provide an interface to support the following tasks and activities common to Various systems: 2.20 Monitoring the events from a live security system 2.21 Generating reports. 2.22 Monitoring and acknowledging alarms. 2.23 Creating and editing incidents and generating incident reports. 2.24 Displaying dynamic graphical maps and floor plans as well as executing actions from dynamic graphical maps and floor plans Unified with UC&C.	Hope floor map are not applicable as this will be City monitoring. Please confirm.	As per RFP
1168	2	272	7.3. Functional and Technical Requirements for VMS	3.13 The proposed VMS platform must have international recognized certifications to prove the Cybersecurity standards adaption. Organizations to submit the certifications along with the technical bid. Bidders to submit the certifications along with the technical bid. VAPT / Encryption / security certificates from CERT-IN empanelled auditors should be acceptable.	We understand the Audit category / Certification should be relevant to IOT, emergency communications , CCTV systems which are relevant to the project. Please advise if our understanding is correct.	As per RFP
1169	2	272	7.3. Functional and Technical Requirements for VMS	3.4 Provide up to 20 different certificates for different groups of users who have been granted access to decrypted streams.	Need more understanding from customer on requirement.	As per RFP
1170	2	273	7.3. Functional and Technical Requirements for VMS	3.6 Use a random encryption key and change periodically.	This is OEM specific point. Please delete.	As per RFP
1171	2	273	7.3. Functional and Technical Requirements for VMS	3.9 The Application shall support digitally sign recorded video using 128-bit RSA public/private key cryptography / Digital Signatures.	Complied for exported file. At rest we do encryption. Hope same is Ok.	As per RFP
1172	2	274	Functionalities:	Functionalities: Core a. The mobile app should a COTS based app from the VMS provider being made available from the day 1 and must be easily be downloadable from IOS and Android stores online. b. Ability to display a geographic map with VMS entities geo-located on the map. c. Ability to view any camera configured on the map. d. Ability to search cameras or location on the map. e. Ability to view live and recorded video from the cameras of the central recording server. f. Ability to display live and recorded video side-by-side for a specific camera. g. Ability to perform digital zoom on cameras. h. Ability to perform actions on cameras such as add a bookmark, control a PTZ, control the iris/focus function, save a snapshot, start/stop recording. i. Ability to use the camera of the smartphone and stream a live video feed to a video recorder in the system. j. Ability to locate the mobile app user on map and provisioning to message and collaborate in real time with the central command center or field staff.	Pls delete this section as app is for workforce and they get the details corresponding to a particular incident. Regular operation around client can be performed through VMS APP but that is without any GIS. Also bookmark, IRIS focus and two camera feeds are not there on mobile APP	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1173	2	275	7.4. Video Analytics Software for 1000 Cameras with average 2 use cases per camera	Request for addition	Out of all mentioned use-case minimum 3 use-cases shall be demonstrated during POC	As per RFP
1174	2	275	Functional and Technical Requirements for VMS: Community Surveillance Module:	Community Surveillance Module b. It is envisaged that about 2500 cameras from community surveillance feeds would be extended from various Police Area Offices, Railway Offices, SP-Offices police stations across the city of Patna	As per our understanding, Additional 2500 Cameras license ( needs to be provisioned extra in VMS Solution for catering to the requirement of Community Surveillance. Please clarify if our understanding is correct.	Yes, your understanding is correct
1175	2	275	7.4. Video Analytics Software for 1000 Cameras with average 2 use cases per camera	7.4. Video Analytics Software for 1000 Cameras with average 2 use cases per camera	Please clarify whether we need to consider Any 2 used cases pur 19 uses cases listed in this clause for 1000 Cameras. It means total 2000 Licenses is required AI based VA. Please clarify if our understanding is correct.	As per RFP
1176	2	275	7.4. Video Analytics Software for 1000 Cameras with average 2 use cases per camera	The human firing a weapon.	As per camera specificaiton 20 to 30 fps pictures are taken in 1 second. Whereas, the speed of firing weapon is much higher which may or may not be captured. Hence we understand, weapon can be detected through AI analytics. Or clarify.	As per RFP
1177	2	276	7.4. Video Analytics Software for 1000 Cameras with average 2 use cases per camera	Violation of Section 144 as per IPC	As per section 144, we understand that a group of 3 or more member when move in a group, we can detect as a movement of crowd. Or clarify.	As per RFP
1178	2	277	Functional & Technical Requirements for Facial Recognition System	Detection of partial faces The FRS shall recognize partial faces with varying angles from multiple videos simultaneously from Video clips, Group Photographs and VMS Playback directly from FRS Client Interface.	Please modify to "Detection of partial faces The FRS shall recognize partial faces with varying angles from multiple videos simultaneously from Video clips, Group Photographs and VMS Playback directly from FRS Client Interface." Justification: As ICCC will be unified application which will be mainly used for incident management and has integration with all the sub-systems proposed in this RFP including VMS. So VMS playback for the FRS incident will be provided in ICCC.	As per RFP
1179	2	277	Functional & Technical Requirements for Facial Recognition System	Detections in crowd The system shall be able work to detect more than 20 faces in crowd on moderate face rotation either horizontal or vertical.	we assume that the 20 faces should be detected in a second on the camera field of view. Please confirm. Justification: As per FRS camera deployment, the camera has to focused to particular zone to achieve min. pixels required between eyes of people for recognition. With this setup, it will be hardly 3-5 people will be seen in a frame.	As per RFP
1180	2	278	Functional & Technical Requirements for Facial Recognition System	De-duplication FRS shall be able to check if new enrolled face is already enrolled in the database before registering the new enrolled face in the system. Also, the system shall be able to find a previous detection of a POI (person of interest) upon enrolment to watchlist (retrospective search) in less than 5 sec.	Please accept the modification, "FRS shall be able to check if new enrolled face is already enrolled in the database before registering the new enrolled face in the system. Also, the system shall be able to find a previous detection of a POI (person of interest) upon enrolment to watch list (retrospective search) in less than 5 sec." Justification: Once the Face is recognized transaction/record is created with suspect person attributes along with captured image which is always low quality, it is not recommended to run FRS on low quality images. Also there is offline video processing is considered as part of this scope, it can be used for doing offline video processing received from other private establishments.	As per RFP
1181	2	278	Functional & Technical Requirements for Facial Recognition System	Database Support The system shall employ database system like MS SQL/ MYQL/ Leading Open Source Database/Sybase/ Mongo DB/ Postgres/Oracle etc. The FRS system should natively integrate with Video Intelligence platform and use a common database of the platform, so that common queries can be made on the common database for faces detection and other events.	Please accept the modification, "Database Support The system shall employ database system like MS SQL/ MYQL/ Leading Open Source Database/Sybase/ Mongo DB/ Postgres/Oracle etc. The FRS system should natively integrate with Video Intelligence platform and use a common database of the platform, so that common queries can be made on the common database for faces detection and other events." Justification: This is OEM biased specification - Supporting VMS vendor who has FRS components and blocking market leader who are specialized in FRS domain. Also ICCC Application will be integrating with all the subsystems and queries can be executed from these systems without any issues.	As per RFP

S.No.	RFP Volume	RFP Page No	Sub-Section Number	Content of the RFP Requiring Clarification	Clarification Sought/Change Request	PSCL Response
1182	2	279	7.5. Functional & Technical Requirements for Facial Recognition System	Algorithm Benchmarking The Vendor should have any performance benchmarking certificate. NIST certificate will be preferred.	1. As NIST conducts two different FRS algorithms test. a. NIST FIVE (Face in Video Evaluation) - This is report is evaluated algorithms based on live cctv camera video sources. b. NIST FRVT (Face Recognition Vendor Test) - Evaluated FRS OEMs algorithms with Images as sources. Please advise which NIST report to be considered here. 2. As there are more than 100+ OEMs participated in recent released NIST program and ranked their algorithms based on recognition performance. NIST doesn't recommend which OEMs are better. As a purchaser, you would be interested to see the top OEMs to be considered. Hence request you to accept the following criteria to have better FRS Algorithm in proposal, "Face Recognition Vendor Test (FRVT) for the performance efficiency of the algorithm for minimum criteria of Identification (T>0), for Mugshot Database N=1.6M, False Negative Identification Rate (FNIR) should be less than 0.005 when False Positive Identification Rate (FPIR) is set to 0.003. "	As per RFP
1183	2	279	7.5. Functional & Technical Requirements for Facial Recognition System	18. Algorithm Benchmarking: The Vendor should have any performance benchmarking certificate. NIST certificate will be preferred.	We Hereby Request you to please Delete this Clause, as it is Restrictive.	As per RFP
1184	2	279	Functional & Technical Requirements for Facial Recognition System	d. Partially hidden faces or occluded faces like wearing dark glasses mask etc.	We would ke to bring in your notice that, if full face will be covered with mask and dark glasses, it means 90% face will be covered with darkglasses and mask, then how facial recognition will work. It Should be Partially hidden faces or occluded faces like wearing dark glasses or mask etc.	As per RFP
1185	2	279	7.5. Functional & Technical Requirements for Facial Recognition System	Mobile Application Support	Please share the number of concurrent FRS Mobile application user to have better sizing of server hardware.	This information will be shared with successful bidder as such while bidding judgement may be used for work area.
1186	2	280	Functional & Technical Requirements for Facial Recognition System	FRS shall have ranking features to show next 5 closest & similar subjects in the Watchlist with nearest score to the detection. This option enables you to review POIs that are potential matches for this detection for efficient system performance.	This is old technology who support Up To 5 nearest match. Facial recognition solution has seen drastic improvements in last 3-4 years due to improvements in type of network being used Convolutional Neural Networks (CNN). Globally, many of face recognition solution OEM has achieved 99% of accuracy. who will provide you precise result So why you are looking old technology, who may give false alarm also. We are requesting you to please delete this Clause	As per RFP
1187	2	280	Functional & Technical Requirements for Facial Recognition System	FRS must allow tracking of person on maps to be uploaded in the system for cameras connected to FRS and shall highlight the camera location on the map for each detection/alert.	We would like to bring in your notice that, this feature will be the part of VMS. FRS will detect the face and give the alarm to VMS. Request you to kindly delete this clause it is Proprietary of One vendor specific and restrictive clause.	As per RFP
1188	2	281	7.5. Functional & Technical Requirements for Facial Recognition System	Integration with any sensor	FRS is not ICCV Application and it will be only interfacing with only video cameras to process and detect Face. Hence request you to remove this specification.	Refer to the <b>Corrigendum-4</b> regarding deletion of this condition.
1189	2	281	7.5. Functional & Technical Requirements for Facial Recognition System	Simultaneous detection of multiple faces in crowd: All vendors will be provided with a crowded video and outcomes will be recorded.	This is step which will be followed by customer during the evaluation of Various FRS applications proposed to have better comparison by providing same video source with same Watch list database. Please confirm.	As per RFP
1190	2	281	7.5. Functional & Technical Requirements for Facial Recognition System	Privacy as per GDPR compliance	GDPR is vast guidelines and talks more on process and procedures and this is applicable for European Union Countries and does not applicable for Indian jurisdiction. Please remove it, as this project is in India, only Indian Jurisdiction law to be considered.	As per RFP
1191	2	281	Face Recognition System KPI Criteria/Evaluation Parameters:	Global Threshold, Camera wise threshold and watchlist wise threshold	Please accept the modification, "Global Threshold and Camera wise threshold / watch list wise threshold"	As per RFP



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1192	2	285	7.7. Picture Intelligence Unit- Functional Requirement & Technical specification	There should be a tight integration between infrastructure metrics and logs to have the single consolidated console of Infrastructure & security events.	For Infrastructure and security events to be consolidated in single dashboard it is important that all the modules for management shall be customized to be accessed from a common page for management (i.e. a Management Portal, which allows integration of all applications into a single pane of glass for KPI insights. This dashboard will provide service status and restricted views, along with drill down navigation). Thus NOC (EMS) and SOC (SIEM) should be from a single OEM vendor family to ensure seamless integration, time to value realization and ensuring that issues of integration does not arise. Hence request you to please update the clause as follows: "There should be a tight integration between infrastructure metrics and logs to have the single consolidated console of Infrastructure & security events through a single NOC & SOC OEM solution."	The Clarification Sought / Change Request is not clear
1193	2	286	5.2.3.1. Functional Enterprise Management System	All the required modules should be from same OEM and should be tightly integrated for single pane of glass view of enterprise monitoring.	EMS consists of multiple tools. Having all these tools from the same OEM will ensure that the components are pre-integrated and adequately tested and hence time to value realization is quick and issues of integration does not arise. Hence request you to please revise the clause as follows: "All the required modules for NOC and SOC including server Mgmt., NMS, Helpdesk, Log Mgmt., etc.. should be from same OEM and should be tightly integrated for single pane of glass view of enterprise monitoring."	As per RFP
1194	2	286	7.7. Picture Intelligence Unit- Functional Requirement & Technical specification	The solution should be virtual appliance and deployable on Linux operating systems to reduce the overall TCO.	RESTRICTIVE CLAUSE. Virtual Appliance is a proprietary type. Most of the EMS OEMs provide Software based solution. Request you to please update the clause as follows to allow best in class OEM to participate: "The solution should be virtual appliance or Software based and deployable on Linux operating systems to reduce the overall TCO."	As per RFP
1195	2	288	7.8. AI with continuous Learning & Improvement System - Functional Requirement &	AI with continuous Learning & Improvement System - Functional Requirement & Technical specification	As per the standard practices adopted by industry in various smart cities projects. Systems & subsystems like AI with continuous Learning & Improvement System talks about the functionalities already being catered by ICC/ UC&C platform. Such, platforms are just duplicating the same activity and adding to the cost of the project unnecessarily. Referring to other successful Smart City projects, a single ICC/ UC&C platform can cater to the requirement by integration with AI based Video Analytics and a separate AI with continuous Learning & Improvement System has no value addition. This will not only un-complicate the solution, but will also save public exchequer money for utilization in some other relevant sub system/ noble cause. Hence, we request you to kindly remove "AI with continuous Learning & Improvement System" from scope of this RFP.	As per RFP
1196	2	288	7.8. AI with continuous Learning & Improvement System - Functional Requirement &	AI with continuous Learning & Improvement System - Functional Requirement & Technical specification	As per the standard practices adopted by industry in various smart cities projects. Systems & subsystems like AI with continuous Learning & Improvement System talks about the functionalities already being catered by ICC/ UC&C platform. Such, platforms are just duplicating the same activity and adding to the cost of the project unnecessarily. Referring to other successful Smart City projects, a single ICC/ UC&C platform can cater to the requirement by integration with AI based Video Analytics and a separate AI with continuous Learning & Improvement System has no value addition. This will not only un-complicate the solution, but will also save public exchequer money for utilization in some other relevant sub-system/ noble cause. Hence, we request you to kindly remove "AI with continuous Learning & Improvement System" from scope of this RFP.	As per RFP
1197	2	288	7.8. AI with continuous Learning & Improvement System - Functional Requirement &	AI with continuous Learning & Improvement System - Functional Requirement & Technical specification	As per the standard practices adopted by industry in various smart cities projects. Systems & subsystems like AI with continuous Learning & Improvement System talks about the functionalities already being catered by ICC/ UC&C platform. Such, platforms are just duplicating the same activity and adding to the cost of the project unnecessarily. Referring to other successful Smart City projects, a single ICC/ UC&C platform can cater to the requirement by integration with AI based Video Analytics and a separate AI with continuous Learning & Improvement System has no value addition. This will not only un-complicate the solution, but will also save public exchequer money for utilization in some other relevant sub system/ noble cause. Hence, we request you to kindly remove "AI with continuous Learning & Improvement System" from scope of this RFP.	As per RFP

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1198	2	292	5.2.3.1. Functional Enterprise Management System	The proposed helpdesk solution should have achieved Pink VERIFY certification on at least 6 available ITIL processes. Documentary proof must be provided at the time of submission.	ITIL has defined 16 ITIL V3 process under there framework. Asking only 6 ITIL processes is favouring specific vendor. The ask should be atleast for 50% or ITIL processes certification to ensure the best in class OEMs participate in the tender. Multiple leading Service Management OEMs are listed under Pink Elephant certifications website and this is the most mature way to demonstrate that at least three top IT organizations and for selection of mature IT service management solution. Hence request you to please revise the clause as follows: "The proposed helpdesk solution should have achieved Pink VERIFY certification on at least 8 available ITIL processes. Documentary proof must be provided at the time of submission."	As per RFP
1199	2	293	7.7. Picture Intelligence Unit- Functional Requirement & Technical specification	Three Stream supportable , All stream should be H.265	As per industry standard camera support three stream with Dual H.265/ Dual H.264/ third stream on h.264/h.265/MJPEG.	Three stream with Dual H.265/ Dual H.264/ third stream on h.264/h.265/MJPEG (Refer <b>Corrigendum - 4</b> in this regard)
1200	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	Kindly clarify where outdoor dome cameras are used. The same is not mentioned in BOQ	As per RFP
1201	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	Simultaneous Stream : Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	3 Stream at 1920x 1080 @ 25fps is not available with major CCTV OEMs. So please make it generic and amend it as below :- Main Stream: 1080P (1 fps–25fps) Sub Stream1: D1 (1 fps–25fps) Sub Stream2: 1080P (1 fps–6fps).	Refer reply to query at S.No. 1199
1202	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	Sr. 10, Simultaneous Stream Simultaneous Stream :Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	Ammendment / Change Required Simultaneous Stream :Minimum 2 streams should be configurable at 1920 X 1080 @ 60 fps simultaneously Justification : Simultaneous 03 Stream is OEM Specific	Refer reply to query at S.No. 1199
1203	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	Simultaneous Stream:Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	Kindly amend the parameter as "Minimum 2 streams should be configurable at 1920 X 1080 @ 25/30 FPS and all the 3 streams can be independantly configurable". This will allow other reputed CCTV OEMs can propose their solution.	Refer reply to query at S.No. 1199
1204	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	Sr. 10, Simultaneous Stream Simultaneous Stream :Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	Sr. 10, Simultaneous Stream Simultaneous Stream :Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	Refer reply to query at S.No. 1199
1205	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	Storage backup on network failure:Camera should support network failure detection , Camera should have the capability to start the recording automatically on SD card(32 GB min at all locations) in case of connectivity between camera and NVR/Storage device goes down	Requesting you to make changes "Built in SD card slot with support at least 128 GB / 256 GBSD card. 128 GB / 256 GB SD Card shall be supplied along with camera. Camera should support Network Failure Detection and automatically start recording during Network failure.	As per RFP
1206	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(HD)	Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	Among 3 Stream it's purpose for record, viewing and remote monitoring. From that one stream at 1080P@1~60FPS/30FPS/25FPS and second/Third stream configure at 30/25FPS @ 720P/D1 , AS per the solution the primary streaming will be Full HD and Secondary streaming can be HD use done various smart city projects , Each stream profile can have its own compression, resolution, frame rate and quality independently. Hence Request you to consider the following changes. Minimum 3 streams should be configurable, out of 3 streams 2 streams at 1920 X 1080 @ 25 fps simultaneously and 1 stream at 720P/D1 2 25 fps.	Refer reply to query at S.No. 1199

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1207	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Minimum 3 streams should be configurable at 1920 X 1080 @ 25 fps simultaneously	Request you the change the specification as suggested for wider participation " Minimum 3 streams and 1 stream should be configurable at 1920 X 1080 @ 25 fps and another two streams at minimum 720P at 25fps"	Refer reply to query at S.No. 1199
1208	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)		3. Day/NightvOperation ICR with IR range of 100m or better	As per RFP
1209	2	293	Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Day/NightvOperation-ICR with IR range of 100m or better	The IR Range specified in RFP will not required for all types of cameras( i.e Dome,Bullet ,Box) , Hence we kindly request to modify the lens range as under . 1. Box cameras : Internal/External IR with 100Mtr 2. Bullet camera : 50 Mtr Built in IR range or better 3. Dome camera: 30 Mtr Built in IR range or better	As per RFP
1210	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Minimum Illumination :Color 0.10 lux , B/W 0.0005 lux	Request : Change Illumination to Color: 0.16 lux at 50 IRE F1.4 B/W: 0.03 lux at 50 IRE F1.4 0 lux with IR illumination on Clarification :As illumination level measured on various factor which is different for each OEM Best way to check the camera illumination strength is during the live demo in night time. So request you to kindly accept our request and add camera should give colour image in low light condition which will be tested during POC.	As per RFP
1211	2	293	Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Day/ Night Operation:ICR with in-built or external IR range of minimum 100 m or better	Request : Day/ Night Operation:ICR with in-built or external IR range of minimum 80 m or better Clarification :Given IR range not available with every OEM .Kindly accept our request .	As per RFP
1212	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	3. Day/NightvOperation ICR with IR range of 100m or better	Request to kindly changes Day / night operation ICR with IR range of 70 Mtrs or better ( external /build in)	As per RFP
1213	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	4. Minimum Illumination : Color 0.10 lux , B/W 0.0005 lux	Kindly amend this parameter as " Minimum Illumination : Colour: 0.005Lux, B/W: 0 Lux with IR on". It will ensure better quality of color images in night condition as low light performance, which is very much required in Smart Safe City Surveillance Project. This will also supported by all other reputed CCTV OEMs.	As per RFP
1214	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Lens: Sr. 5.1 Motorised Lens ( 12 mm to 40 mm / 5 mm to 50 mm)or as per requirement & Sr. 7.9 Motorised Lens ( 5 mm to 50 mm / 12 mm to 40 mm or better) or as per field requirement to achieve the required FoV	Ammendment / Change Required Lens : External Varifocal Lens for Box Camera ( 5 mm to 50 mm) / For Dome & Bullet Motorised (2.8 - 12 mm) or as per field requirement to achieve the required FoV Justification : Dome & Bullet Camera comes with motorised camera and 12 mm to 40 mm is too much of ask and this can be only acheoved by Box Camera	Lens : External Varifocal Lens for Box Camera ( 5 mm to 50 mm) / For Dome & Bullet Motorized (2.8 - 12 mm) or as per field requirement to achieve the required FoV (Refer <b>Corrigendum - 4</b> in this regard)
1215	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Lens: Sr. 5.1 Motorised Lens ( 12 mm to 40 mm / 5 mm to 50 mm)or as per requirement & Sr. 7.9 Motorised Lens ( 5 mm to 50 mm / 12 mm to 40 mm or better) or as per field requirement to achieve the required FoV	As per RFP we understand that ANPR Camera is fixed box cameras with external IR illuminator and surveillance cameras are Bullet type. Kindly confirm our understanding is correct or not.	As per RFP
1216	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Lens: Sr. 5.1 Motorised Lens ( 12 mm to 40 mm / 5 mm to 50 mm)or as per requirement & Sr. 7.9 Motorised Lens ( 5 mm to 50 mm / 12 mm to 40 mm or better) or as per field requirement to achieve the required FoV	Lens: Sr. 5.1 Motorised Lens ( 12 mm to 40 mm / 5 mm to 50 mm)or as per requirement & Sr. 7.9 Motorised Lens ( 5 mm to 50 mm / 12 mm to 40 mm or better) or as per field requirement to achieve the required FoV	As per RFP

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1217	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Lens: Sr. 5.1 Motorised Lens ( 12 mm to 40 mm / 5 mm to 50 mm)or as per requirement & Sr. 7.9 Motorised Lens ( 5 mm to 50 mm / 12 mm to 40 mm or better) or as per field requirement to achieve the required FoV	Request to change the clause " Lens : External Varifocal Lens for Box Camera ( 5 mm to 50 mm) / For Dome & Bullet Motorised (2.8 - 12 mm) or as per field requirement to achieve the required FoV Justification : Dome & Bullet Camera comes with motorised camera and 12 mm to 40 mm is not a standard bullet camera lens .Request you to change the Bullet Camera lens.	As per RFP
1218	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Lens: Motorised Lens ( 12 mm to 40 mm / 5 mm to 50 mm)or as per requirement	Requesting you to make (2.8 to 12mm / 5mm to 50mm as option to make it generic so that reputed OEMs can participate.	As per RFP
1219	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Lens- Motorised Lens ( 5 mm to 50 mm / 12 mm to 40 mm or better) or as per requirement	The camera lens specified in RFP will not suitable for all types of cameras( i.e Dome,Bullet ,Box) , Hence we kindly request to modify the lens range as under . 1. Box cameras : 5-50mm manual varifocal lens with C/CS mount. 2. Bullet camera : 2.8 -12mm motorized lens or better which results in better Field of View 3. Dome camera: 2.8- 12mm motorized lens or better which results in better Field of View	As per RFP
1220	2	293	Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Compression: MJPEG, H.265, H.264 or better	Request : Change to MJPEG, H.264 / H.265. Clarification:As per our understanding the H.265 is yet to be considered as a basic standard for video compression as the technology is still evolving and yet to be proven to be accepted by the the industry. All the camera OEMs are having their own developed Compression Technologies which can provide better proven results equivalent to H.265 when they are used in combination with H.264 which is a fully proven compression technology.	Refer reply to query at S.No. 1199
1221	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	SR No.(15) Image Setting: Saturation, Brightness, Contrast, Sharpness, Hue adjustable	Request you to remove hue setting option as this is limiting the OEMs Brightness,Contrast,Sharpness & Saturation are the default options available with most of the OEMs.	Refer reply to query at S.No. 407
1222	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	SR No.(15) Image Setting: Saturation, Brightness, Contrast, Sharpness, Hue adjustable	Request you to remove hue setting option as this is limiting the OEM s Brightness,Contrast,Sharpness & Saturation are the default options available with most of the OEMs.	Refer reply to query at S.No. 407
1223	2	293	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	SR No.(15) Image Setting: Saturation, Brightness, Contrast, Sharpness, Hue adjustable	Sharpness and Hue is one and same thing. Please amend the clause as SR No.(15) Image Setting: Saturation, Brightness, Contrast, Sharpness / Hue adjustable	Refer reply to query at S.No. 407
1224	2	294	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Multiple Stream:Triple Stream	Request : Individually configurable minimum 04 video streams@H.264,25FPS and 2MP As per our understanding in big city project there are many application that require separate stream from camera itself without any interruption eg Stream for Recording , Live viewing, disaster recovery recording, remote viewing ,other 3rd party application and camera should be capable to do that at any scenario so request you to kindly change it to : Individually configurable minimum 04 video streams@H.264,25FPS and 2MP.	Refer reply to query at S.No. 1199
1225	2	294	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera		1. Certifications UL /BIS ,CE,FCC, IP66	As per RFP
1226	2	294	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	1. Certifications UL /BIS ,CE,FCC, IP66	Request to kindly changes Certification UL, BIS , CE , FCC, IP66	As per RFP

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1227	2	294	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	SR No(3)Sensor-1/2.8" Progressive scan CMOS	Request you to consider 1/2.8" / 1/3" or better images sensor to get the maximum participation. This change will not impact the functionalities of the systems.	SR No(3)Sensor-1/2.8 / 1/3 Progressive scan CMOS (Refer <b>Corrigendum -4</b> in this regard)
1228	2	294	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	SR No(3)Sensor-1/2.8" Progressive scan CMOS	Request you to consider 1/2.8" /1/3" images sensor .it will not impact the functionalities of the systems.	Refer reply to query at S.No. 1227
1229	2	294	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	6. Frame Rate : Upto 25FPS @ 2MP	Kindly amend the parameter as "Frame Rate : Upto 60 FPS @ 2MP for Primary Stream and 25 / 30 FPS @ all other resolutions and streams." It will ensure better quality of images of moving objects which is highly recommended in Smart City Surveillance Projects.	As per RFP
1230	2	294	7.11. Functional & Technical Requirements for ANPR System	User Account :10	Ammendment / Change Required User Accounts: 04 Justification : 10 user account is OEM Specific	As per RFP
1231	2	294	7.11. Functional & Technical Requirements for ANPR System	User Account :10	Ammendment / Change Required User Accounts: 04 Justification : 10 user account is OEN Specific	As per RFP
1232	2	294	7.11. Functional & Technical Requirements for ANPR System	Two way audio:Line in / Line out	Request : Please change to 1 Channel Audion in only. As our main purpose is to record the audio from camera end which can be done by one way audio only also adding extra port only increase the cost of camera so request you change it to:1 Channel Audio IN.	As per RFP
1233	2	294	7.11. Functional & Technical Requirements for ANPR System	User Account :10	User Account :10	As per RFP
1234	2	294	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)		29 Operating Temperature 0°C ~ 60°C	As per RFP
1235	2	294	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)		31 Certification UL/BIS , CE , FCC	As per RFP
1236	2	294	7.9. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	29 Operating Temperature 0°C ~ 60°C	Request to kindly changes Operating Temperature 0°C ~ 55°C or better	As per RFP
1237	2	294	Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Certifications :UL/BIS ,CE,FCC	Ammendment / Change Required Certification : UL, BIS ,CE,FCC Justification : UL is a global safety certification.UL Listing means that UL has tested representative samples of a product and determined that the product meets specific, defined requirements as per global safety standards. Kindly consider UL as mandatory certification to meet the global safety standards.	As per RFP
1238	2	294	Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Certifications :UL/BIS ,CE,FCC	Ammendment / Change Required Certification : UL, BIS ,CE,FCC Justification : UL is a global safety certification.UL Listing means that UL has tested representative samples of a product and determined that the product meets specific, defined requirements as per global safety standards. Kindly consider UL as mandatory certification to meet the global safety standards.	As per RFP

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1239	2	294	Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	Certifications :UL/BIS ,CE,FCC	Certifications :UL/BIS ,CE,FCC	As per RFP
1240	2	294	7.9. Functional & Technical Requirements for Outdoor Fixed Cameras/Bullet/Dome(H D)	31 Certification UL/BIS , CE , FCC	Request to kindly changes Certification UL, BIS , CE , FCC	As per RFP
1241	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	IR:Inbuilt IR , IR distance up to 150 mtr	Request : Please change IR:Inbuilt IR , IR distance up to 250 mtr Clarification:PTZ camera function is to see the object at longer distance in dark night .So request you to accept our request .	As per RFP
1242	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Field Of view:61.2° - 2.32 ° or better	Request : Please change Field Of view:(61.2° - 2.32 ° ) +-5° or better Clarification:As the focal length of camera has many given option at point no 5 of PTZ camera 4.5 mm – 135 mm or 4.3 mm - 129 mm or 4.8 mm - 144 mm or 5mm – 150mm or 6mm -180 mm , So if we have option if focal length than there should be some buffer on FOV as well so that we can relate the focal length with FOV .	As per RFP
1243	2	295	Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Focal Length:4.5 mm – 135 mm or 4.3 mm - 129 mm or 4.8 mm - 144 mm or 5mm – 150mm or 6mm -180 mm	Requesting you to make changes in focal length as "4.5 mm – 135 mm or 4.3 mm - 129 mm or 4.8 mm - 140 mm or 5mm – 150mm or 6mm -180 mm" so that reputed OEMs can participate.	As per RFP
1244	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	8. Field of View : 61.2° - 2.32 ° or better	Kindly amend the parameter as "Field of View : Horizontal : 55°~3°, Vertical : 42°~2°". Better H X V viewing angle will give better wide coverage.	As per RFP
1245	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	15. IR : Inbuilt IR, IR distance support upto 150m	Kindly amend the parameter as "IR : Inbuilt IR, IR distance support 200m or better". It will ensure better distance coverage in night condition.	As per RFP
1246	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera S. No.	Min Illumination:- 0.05 @ F1.6 (Color), 0 (B/W) @ F1.6	Kindly Change to Min Illumination:- Color: 0.07 lux @F1.6 1/30sec BW: 0 lux @F1.6 (IR on)	As per RFP
1247	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	23. Privacy Mask - Min 8 privacy zones	Privacy Masking is widely supported on VMS application. Camera is limited to support number of Privacy Masks. Kindly amend this clause as "Minimum 4 Privacy masks on Camera"	Minimum 4 Privacy Masks shall be supported by the Camera (Refer <b>Corrigendum -4</b> in this regard)
1248	2	295	Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Audio :2 Way audio	Request :Please remove this Clarification:As PTZ camera will be installed at height of 8-10 meter . There will be no use of audio inside the camera and we have never seen anybody using two way audio using in PTZ camera . So request you please remove this .	As per RFP
1249	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	27.Tilt: -15 ° ~ 90° , Manual speed 0.1° ~ 60°/s , Preset speed 7° ~ 240°/s , Auto flip	The PTZ is recommended to be with in-built IR. Thus, the PTZ camera with IR is not recommended to have such high Tilt speed. This might create shadow image when performing Tilt operation as such speed. Thus, recommended Tilt speed for the IR PTZ should be - Tilt Speed - 200°/s Thus, requesting to amend the clause to .Tilt: -15 ° ~ 90° , Manual speed 0.1° ~ 60°/s , Preset speed 7° ~ 200°/s , Auto flip	As per RFP



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1250	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	29) PTZ Operation : 8 sequence , 8 cruise	Requesting to make it generic as most of all PTZ comes with minimum 8 Sequence/Patrol, 4 cruise/Pattern option. So, Kindly amend this point.	As per RFP
1251	2	295	Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Calibration:Auto( On/Off)	in PTZ option calibrations indicating some particular OEM , to make it generic requesting you to change as" EIS ( electronic image stabilization ) SUPPORTED.	As per RFP
1252	2	295	Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Calibration:Auto( On/Off)	Need Clarification:what is auto calibration in PTZ camera ? Is this autofocus ?	As per RFP
1253	2	295	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	36. Alarm: 2 Input / 1 Output	36. Alarm: 1 Input / 1 Output  Request you to change the Alarm interfaces as per the industry standard for wider participation.	Accepted- Alarm :1 Input / 1 Output (Refer <b>Corrigendum -4</b> in this regard)
1254	2	295	7.10 Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Alarm :2 Input / 1 Output	Request :Please remove this Clarification:As PTZ camera will be installed at height of 8-10 meter . There will be no use of I/O inside the camera because most of integration will be happen thorough Software/VMS only . We already have I/O in the fix camera for any integration .So request you to kindly remove the I/O inside the PTZ camera .	Refer reply to query at S.No. 1253
1255	2	295	7.11. Functional & Technical Requirements for ANPR System	Tilt :- '-15 ° ~ 90° , Manual speed 0.1° ~ 60°/s , Preset speed 7° ~ 240°/s ,	Kindly Change to 'Tilt :- '-5 ° ~ 90° , Manual speed 0.1° ~ 60°/s , Preset speed 7° ~ 240°/s , Auto flip	As per RFP
1256	2	295	7.11. Functional & Technical Requirements for ANPR System	Tilt: -15 ° ~ 90° , Manual speed 0.1° ~ 60°/s , Preset speed 7° ~ 240°/s , Auto flip	requesting you to make tilt parameters generic so that reputed OEMs can participate also RFP asked for different focal length and different model wil be quoted by the bidder to achieve the requirements, so please make it " 0° ~ 90° , Manual speed 0.1° ~ 60°/s , Preset speed 7° ~ 200°/s , Auto flip" as generic	As per RFP
1257	2	295	7.11. Functional & Technical Requirements for ANPR System	Tilt : -15 ° ~ 90° , Manual speed 0.1° ~ 60°/s , Preset speed 7° ~ 240°/s , Auto flip	To make it generic we request you to amend Preset Speed to 200°/s	As per RFP
1258	2	296	7.10 Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Power Supply:- 802.3at (PoE+) 4-Pair 60W / AC 24V ± 20% / DC 12V	Kindly Change to Power Supply:- 24 VAC (50 / 60 Hz), 60 W UPOE	As per RFP
1259	2	296	7.10 Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Power Consumption :- 45W or less (with IR & Heater on)	Kindly Change to Power Consumption :- 51W	As per RFP
1260	2	296	7.10 Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	Power Consumption:45W or less (with IR & Heater on)	Request : Please change Power Consumption:55W or less (with IR & Heater on) Clarification:Many OEM have 200 meter plus IR inbuilt in camera which require little high power . So,Request to change the power consumption to 55 W or better.	As per RFP
1261	2	296	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera		43. Power Consumption 45W or less (with IR & Heater on)	As per RFP
1262	2	296	7.10. Functional & Technical Requirements for PAN, Tilt & Zoom(PTZ) Camera	43. Power Consumption 45W or less (with IR & Heater on)	Request to kindly changes Power Consumption 85W or less (with IR & Heater on)	As per RFP

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1263	2	296	7.11. Functional & Technical Requirements for ANPR System	The ANPR Platform shall allow the user to Protect a Read or Hit from deletion for a configurable period of time.	Seeking your clarification referring said parameters.	As per RFP
1264	2	298	Functional & Technical Requirements for ANPR Sy	ANPR Platform should integrate with Vahan Database via C4I.	Requesting you please make it " ANPR Platform should integrate with Vaahan, NIC, MORTH or any other database as required." for smooth integrations.	As per RFP
1265	2	298	7.11. Functional & Technical Requirements for ANPR System	ANPR Platform should integrate with Vahan Database via C4I.	You are requested to kindly amend as: ANPR Platform should integrate directly or Via C4I platform with Vahan Database .	As per RFP
1266	2	298	Functional & Technical Requirements for ANPR Sy	ANPR should have at least Deployment in India in any Law Enforcement Project/Smart city project. Necessary Document evidence to be provided	Requesting you please make it as " The OEM of AI based ANPR Platform should be a registered entity in India and should be in business for minimum period of 5 years. " for generic standard so that reputed OEMs can Participate.	As per RFP
1267	2	299	7.11. Functional & Technical Requirements for ANPR System	SR No (1) Camera-5 – 50mm varifocal lens, IR corrected or as per site requirement to meet the desired functional and technical specifications.	Different ITMS OEMs use different mechanism with different lens range to get the desired accuracy and output. Request you to consider 12-40 mm /5-50 mm lens or as per Site requirements.	12-40 mm /5-50 mm varifocal lens, IR corrected or as per site requirement to meet the desired functional and technical specifications. (Refer <b>Corrigendum -4</b> in this regard)
1268	2	299	7.11. Functional & Technical Requirements for ANPR System	1. Camera: 2 Megapixel IP camera Make: Certified Camera for the Purpose as per certificate	Please confirm which type of certification required here for Camera as SVD certification is for backend system not for only any camera.	As per RFP
1269	2	299	7.11. Functional & Technical Requirements for ANPR System	SR No (1) Camera-5 – 50mm varifocal lens, IR corrected or as per site requirement to meet the desired functional and technical specifications.	Request you to consider 12-40 mm /5-50 mm lens. 12-40 mm is meant for anpr application.	Refer reply to query at S.No. 1267
1270	2	299	7.12. Functional & Technical Requirements RLVD System	Option for Spot Speed - (c) It violates the speed limit in any phase (red or green or even when the signal is not working) in places where instant speed system is installed along with RLVD system.	Speed violation detection and RLVD is two different system. SVD mainly installed in highways and not in junctions. Request to treat SVDS and RLVDs as two different systems.	As per RFP
1271	2	299	Functional & Technical Requirements RLVD System	BACK office software: No deletion or addition of data without validation , proper password protection	Requesting you to please make it as " Create, Read, Update, Delete user management tools should be present that allows the deletion or addition of the data"	As per RFP
1272	2	299	Functional & Technical Requirements RLVD System	c) It violates the speed limit in any phase (red or green or even when the signal is not working) in places where instant speed system is installed along with RLVD system.	As per RFP it is understood that Speed violation required for better outcome, we are requesting you please make it as separate system from RLVD.	As per RFP
1273	2	300	7.12. Functional & Technical Requirements RLVD System	IP camera for License Plate Capture :The system shall support all standard brands. One camera shall cover at least 3.5 meter width of lane, and capture the license plates of vehicles which violates the traffic signal and moving at a speed upto 100 km/hr	Requesting you to please make it as separate clause user speed violation from RLVD.	As per RFP
1274	2	300	Functional & Technical Requirements RLVD System	Context Image: Multiple stitched images of the same is possible.	as per RFP and solution .over view , Context Image stitching is not required, requesting you to please remove the clause.	Refer reply to query at S.No. 1127
1275	2	300	7.12. Functional & Technical Requirements RLVD System	OCR accuracy shall be at least 90% during day time and 85% during night time.	Considering the Indian climatic conditions and quality of number plates of vehicles, the given accuracy requirements are highly challenging for OEMs to comply. The ANPR accuracy requirement in majority of smart city ranges between 80% to 60% at day and night time respectively. Considering above, authority is requested to relax the accuracy percentage as below. "OCR accuracy shall be at least 80% during day time and 65% during night time, for standard number plates."	To be read as OCR accuracy shall be at least 85% during day time and night time for Standard number plates with Straight English Roman Fonts having proper visibility and clean/readable number plate. (Refer <b>Corrigendum -4</b> in this regard)

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1276	2	301	7.12. Functional & Technical Requirements RLVD System	21Test reportsThird party (authorized company to do so) speed test reports can be submitted to client. On field detailed speed test reports for upto 100 km/hr with various speed limits. Alternatively, the system should be approved and homologated by some traffic or infrastructure department who directly over sees fine generation. or A certificate/test report from reputed research institutes accredited and recognized by Govt of India is acceptable.Certificate on the accuracy from any IPS officer for ±2 kmph and running satisfactorily in Indian city for at least an year is a must.	Detailed Speed Test Reports for up to 100 Km/Hr is less Speed, considering the Present Road Infrastructure. We hereby request you to please Amend the Speed Violation Detection for to Up to 200 Km/Hr. Such that the Application should have been tested from 50 Km/Hr to 200 Km/hr & the Accuracy of respective Speeds should be Document in the Speed Violation Detection Assessment Report. With 100 Km/hr Detection System, it would be a Bottleneck for the System to Detects the Speeds of Vehicle greater than 100 Km/Hr & likely the System would be of no use for Determining the Vehicle's Speed which are travelling at higher than 100 Km/Hr.	As per RFP
1277	2	301	5.2.3.1. Functional Enterprise Management System	The proposed helpdesk system shall support tracking of SLA (service level agreements) for call requests within the help desk through service types.	Solution having been analysed & recognized by leading analysts ensures that an industry standard solution is being proposed. This is important because as NMS/EMS is the only solution that gives visibility into the project and is responsible for SLA measurements and audits, and therefore all the stakeholders must agree to the reports been generated from EMS. This warrants an industry-standard solution. Hence request you to please revise the clause as follows: "The proposed helpdesk system shall support tracking of SLA (service level agreements) for call requests within the help desk through service types and OEM ITSM solution must be present in Leaders Quadrant of Forrester / Gartner / IDC report for ITSM for the last two years."	As per RFP
1278	2	301	7.12. Functional & Technical Requirements RLVD System	Third party (authorized company to do so) speed test reports can be submitted to client. On field detailed speed test reports for upto 100 km/hr with various speed limits. Alternatively, the system should be approved and homologated by some traffic or infrastructure department who directly over sees fine generation. or A certificate/test report from reputed research institutes accredited and recognized by Govt of India is acceptable. Certificate on the accuracy from any IPS officer for ±2 kmph and running satisfactorily in Indian city for at least an year is a must.	RLVD and SVD is used for the purpose of prosecution and is recommended to have evidence of Violation, which may be required to be shown in the Court of Law. It is seen that, until and unless, it is not certified by an authorized Indian Government Body, the evidence result may not be accepted in the Court of Law against the violation. Hence we request you to amend the clause as mentioned below "To achieve an efficient and reliable result, the system should be certified from any of the agencies mentioned in Indian Central Motor Vehicle act rule no. 126 like ARAI/ ICAT/ VRDE/ GARC, etc"	Proposed Speed Violation Detection system with RLVD and separately asked Speed detection system should have an accuracy of 150 kmph +/-5 kmph, tested & certified for speed accuracy from Indian government agency/s under Central Motor Vehicle Rule (CMVR) 126 like ARAI, ICAT, VRDE, GARC, etc. (Refer <b>Corrigendum -4</b> in this regard)
1279	2	301	7.12. Functional & Technical Requirements RLVD System	Strong encryption on data during local storage and data transfer to back office	As per mandate from MoUD and further to National Cyber Security Policy, necessary measures should be taken to protect information and information infrastructure in cyberspace, build capabilities to prevent and respond to cyber threats, reduce vulnerabilities and minimize damage from cyber incidents through a combination of institutional structures, people, processes, technology and cooperation. Traffic Violation detection system is the core system of Patna Smart City project and the data being transferred from field to ICCC is vulnerable to cyber attacks/ incidents. Hence the proposed application should be capable of protecting itself from such cyber attacks. Hence, we request you to include below clause as: "Strong encryption on data during local storage and data transfer to back office. Test report from CERT-IN empanelled agency for central as well local application should be submitted along the bid."	Strong encryption on data during local storage and data transfer to back office. Test report from CERT-IN empaneled agency for central as well local application should be submitted along the bid.(Refer <b>Corrigendum -4</b> in this regard)
1280	2	301	7.12. Functional & Technical Requirements RLVD System	Strong encryption on data during local storage and data transfer to back office	As per mandate from MoUD and further to National Cyber Security Policy, necessary measures should be taken to protect information and information infrastructure in cyberspace, build capabilities to prevent and respond to cyber threats, reduce vulnerabilities and minimize damage from cyber incidents through a combination of institutional structures, people, processes, technology and cooperation. Traffic Violation detection system is the core system of Patna Smart City project and the data being transferred from field to ICCC is vulnerable to cyber attacks/ incidents. Hence the proposed application should be capable of protecting itself from such cyber attacks. Hence, we request you to include below clause as: "Strong encryption on data during local storage and data transfer to back office. Test report from CERT-IN empanelled agency for central as well local application should be submitted along the bid."	Refer reply to query at S.No. 1279
1281	2	301	7.12. Functional & Technical Requirements RLVD System	Test reports: Third party (authorized company to do so) speed test reports can be submitted to client. On field detailed speed test reports for upto 100 km/hr with various speed limits. Alternatively, the system should be approved and homologated by some traffic or infrastructure department who directly over sees fine generation. orA certificate/test report from reputed research institutes accredited and recognized by Govt of India is acceptable. Certificate on the accuracy from any IPS officer for ±2 kmph and running satisfactorily in Indian city for at least an year is a must.	This requirements comes under Speed Violation , requesting you to make it as separate from RLVD	As per RFP

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1282	2	301	7.12. Functional & Technical Requirements RLVD System	20. Compliance Certificate :CE and RoHS compliant certificate	CE marking is a certification mark that indicates conformity with health, safety, and environmental protection standards for Products ROHS is The Restriction of Hazardous Substances Directive 2002/95/EC, short for Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment. CE & RoHS are Applicable for Hardware Equipments, thus we Understand that CE & RoHS Certificates shall be Applicable for the Hardware IP Cameras which are going to be used for Red Light Violation Detection System. Please Confirm if our Understanding is Correct.	As per RFP
1283	2	301	7.12. Functional & Technical Requirements RLVD System	25 End-User Certificate Product should already in use with enforcement authorities and is used for generating fines. End user certificates for proper working shall be submitted.	End user Certificate is usually provided by the End User to MSI/Bidder & not to the OEM, as the PO/WO is placed to the MSI/Bidder from the Respective Tendering Authorities/End User. It is our Humble Request to please make this Clause Applicable for Bidders or relax this Clause atleast for the OEM's.	As per RFP
1284	2	302	7.12. Functional & Technical Requirements RLVD System	24. Certifications In case of Spot system with RLVD , Systems should be certified as per requirement of Speed Systems ( as per Speed systems technical requirement)	We understand that this is the same Certification that is being provided for Speed Violation Detection System. Kindly please Clarify if our Understanding is Correct.	Yes, your understanding is correct
1285	2	302	7.13. Infrared Illuminators- Functional & Technical Specification	7.13. Infrared Illuminators- Functional & Technical Specification	As the tender proposed to use either Box or Bullet camera, Bullet camera has inbuilt IR , so please help to clarify if we are proposing Bullet camera do we need to provide external Infrared Illuminators.	As per RFP
1286	2	302	7.12. Functional & Technical Requirements RLVD System	UL/CE/FCC & BIS	BIS is Mandatory for CCTV camera and CCTV Recorder only, Hence request you to remove BIS for IR Illuminator and consider following changes UL/CE/FCC /BIS	As per RFP
1287	2	302	Functional & Technical Requirements RLVD System	End-User Certificate:Product should already in use with enforcement authorities and is used for generating fines. End user certificates for proper working shall be submitted.	Requesting you to please delete the clause to make it generic so that all the reputed OEMs can participate , in other hand you can asked for the POC to show case the solution in proper working methodology.	As per RFP
1288	2	302	Functional & Technical Requirements RLVD System	Certifications:In case of Spot system with RLVD , Systems should be certified as per requirement of Speed Systems ( as per Speed systems technical requirement)	Seeking your clarification.	Refer reply to query at S.No. 1278
1289	2	302	7.12. Functional & Technical Requirements RLVD System	In case of Spot system with RLVD , Systems should be certified as per requirement of Speed Systems (as per Speed systems technical requirement)	We recommend to amend this clause as ""Proposed SVD system should have an accuracy of 120 kmph +/-5 kmph, tested & certified for speed accuracy from Indian government agency/s under Central Motor Vehicle Rule (CMVR) 126 like ARAI, ICAT, VRDE, GARC, etc. "	Refer reply to query at S.No. 1278
1290	2	302	7.12. Functional & Technical Requirements RLVD System	In case of Spot system with RLVD , Systems should be certified as per requirement of Speed Systems (as per Speed systems technical requirement)	We request you to amend the clause as: "Proposed SVD system should have an accuracy of 120 kmph +/-5 kmph, tested & certified for speed accuracy from Indian government agency/s under Central Motor Vehicle Rule (CMVR) 126 like ARAI, ICAT, VRDE, GARC, etc. "	Refer reply to query at S.No. 1278
1291	2	302	7.12. Functional & Technical Requirements RLVD System	In case of Spot system with RLVD , Systems should be certified as per requirement of Speed Systems (as per Speed systems technical requirement)	We request you to amend the clause as: "Proposed SVD system should have an accuracy of 120 kmph +/-5 kmph, tested & certified for speed accuracy from Indian government agency/s under Central Motor Vehicle Rule (CMVR) 126 like ARAI, ICAT, VRDE, GARC, etc. "	Refer reply to query at S.No. 1278
1292	2	302	7.12. Functional & Technical Requirements RLVD System	Request for addition	For locations where both RLVD and ATCS will be implemented RLVD & Vehicle detector camera can be same to optimize the network bandwidth & other infrastructure required. We request to add a clause as mention below "It can optionally work as Red Light Violation Detection Camera. Technical Specification of Vehicle Detector shall supercede RLVD/ Evidence/ Overview camera technical specifications to meet functional requirement."	As per RFP
1293	2	302	7.13. Infrared Illuminators- Functional & Technical Specification	Standards/Certification-UL/CE/FCC & BIS	We request you to modify the clause as UL/CE/FCC/BIS.	As per RFP

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1294	2	302	Infrared Illuminators- Functional & Technical Specification	Auto on off, POE+ , AC24V	Achieving good results in night vision is very crucial in terms of ANPR application. Normal IR illuminators may not produce desired results and synchronized properly with video feeds from camera, which should be needed for better accuracy of ANPR. Since the ANPR is the foundation/ base of SVD, RLVD application for capturing violations & generating alerts, it requires to perform with highest levels of accuracy. Hence we request you to kindly amend the clause as mentioned below. "IR illuminator with Auto on/ off, AC24V, ≤20us response time & Video synchronization by stroboscopic support"	As per RFP
1295	2	302	Infrared Illuminators- Functional & Technical Specification	Environmental Protection : IP66/IK09 Rated or better	Every OEM have different hardware specifications for their IR Illuminator. Kindly make it more generous for fair participation meeting the functional requirement of the tender. Kindly amend the clause as mentioning below "7. Environmental Protection: IP66 or better"	As per RFP
1296	2	302	7.13. Infrared Illuminators- Functional & Technical Specification	Operating Temperature:0 °C to 55 °C or better	Request : Please change Operating Temperature:0 °C to 50 °C or better	As per RFP
1297	2	305	8.3. Manpower Deployment	SI shall deploy Manpower during implementation and O&M phases. The deployed resource shall report to PSCL and work closely with Program Management Office of the project. Following are the minimum resources required to be deployed in the Project, however SI may deploy additional resources based on the need of the Project and to meet the defined SLAs in this RFP:	We request bidders to deploy manpower onsite/offsite depending on project exigencies. Please confirm.	As per RFP
1298	2	309	Confidential Information, Security and Data	Confidential Information, Security and Data a. SI will promptly on the commencement of the exit management period supply to the PSCL or its nominated agency the following: ▪ information relating to the current services rendered and customer and performance data relating to the performance of sub-contractors in relation to the services; ▪ documentation relating to Intellectual Property Rights;	We understand that the IPR of the pre existing IPR of the bidder would lie with bidder. The IPR of the customized portion would be the ownership of department. Please confirm on our understanding.	Yes, your understanding is correct
1299	2	311	9. Project Implementation Schedule, Deliverables and Payment Terms	T = 14 Days from Issue of Letter of Award (LOA) of Contract or signing of contract, whichever is earlier.	Kindly amend the clause as below: T = 14 Days from Issue of Letter of Award (LOA) of Contract or signing of contract, whichever is earlier.	Refer <b>Corrigendum-4</b>
1300	2	312	9. Project Implementation Schedule, Deliverables and Payment Terms	3. Submission of FRS, SRS including Solution Architecture, Application Design Documents (HLD & LLD) of the proposed system, HLD & LDD should be prepared by OEM, Design integration and customization approach for the project (including integration with legacy systems/applications), GIS – Creation of new layers as per Patna Smart City , data migration, training & operationalization of enterprise GISsystem for the city	1- Creation of New layers for smart elements will be in SI scope. 2- Creation of any vector layers for base map will by PSCL scope. Pls confirm.	Refer <b>Corrigendum-4</b>
1301	2	313	9. Project Implementation Schedule, Deliverables and Payment Terms	Phase I: Go-Live - T + 5 months Design, Procurement , supply, installation, commissioning including interior civil work, hardware, system software, network equipment for Datacentre, Network Connectivity for atleast 500 Cameras , Installation & Commissioning of JB, Poles, Switches, UPS in the Field for Camera Operationalization of Command Control & Communication Centre along with DC and DR including bandwidth procurement	As completing the interior work for entire CCC & DC within 5 months is extremely difficult, we request you to kindly amend the phase-1 milestone activity as follows and we request you to kindly allow bidders to complete CCC work in the phase-2 (T+7 months) Phase I: Go-Live - T + 5 month Design, Procurement , supply, installation, commissioning including interior civil work, of hardware, system software, network equipment for Datacentre, Network Connectivity for at least 500 Cameras , Installation & Commissioning of JB, Poles, Switches, UPS in the Field for Camera Operationalization of Command Control & Communication Centre along with DC and DR including bandwidth procurement	Refer <b>Corrigendum-4</b>

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1302	2	313	9. Project Implementation Schedule, Deliverables and Payment Terms	Phase I: Go-Live Design, Procurement , supply, installation, commissioning including interior civil work, hardware, system software, network equipment for Datacentre, Network Connectivity for at least 500 Cameras , Installation & Commissioning of JB, Poles, Switches, UPS in the Field for Camera Operationalization of Command Control & Communication Centre along with DC and DR including bandwidth procurement Phase II: Go-Live a. Design, Procurement , supply, installation, commissioning including interior civil work, hardware, system software, network equipment for Datacentre, Network Connectivity for at least 1000 Cameras , Installation & Commissioning of JB, Poles, Switches, UPS in the Field for Cameras etc. Phase III: Go-Live a. Design, Procurement , supply, installation, commissioning including interior civil work, hardware, system software, network equipment for Datacentre, Network Connectivity for at least 1000 Cameras , Installation & Commissioning of JB, Poles, Switches, UPS in the Field for Cameras etc.	Number of cameras mentioned in Phase-I, II and III (2500 Cameras) in the Implementation schedule is not matching the quantity of cameras given in Bill of Quantity (Page 318 of Vol-2). Please clarify.	Refer <b>Corrigendum-4</b>
1303	2	313	9. Project Implementation Schedule, Deliverables and Payment Terms	Phase I: Go-Live Design, Procurement , supply, installation, commissioning including interior civil work, hardware, system software, network equipment for Datacentre, Network Connectivity for at least 500 Cameras , Installation & Commissioning of JB, Poles, Switches, UPS in the Field for Camera Operationalization of Command Control & Communication Centre along with DC and DR including bandwidth procurement Phase II: Go-Live a. Design, Procurement , supply, installation, commissioning including interior civil work, hardware, system software, network equipment for Datacentre, Network Connectivity for at least 1000 Cameras , Installation & Commissioning of JB, Poles, Switches, UPS in the Field for Cameras etc. Phase III: Go-Live a. Design, Procurement , supply, installation, commissioning including interior civil work, hardware, system software, network equipment for Datacentre, Network Connectivity for at least 1000 Cameras , Installation & Commissioning of JB, Poles, Switches, UPS in the Field for Cameras etc.	Number of cameras mentioned in Phase-I, II and III (2500 Cameras) in the Implementation schedule is not matching with the quantity of cameras given in Bill of Quantity (Page 318 of Vol-2). Please clarify.	Refer <b>Corrigendum-4</b>
1304	2	313	9. Project Implementation Schedule, Deliverables and Payment Terms	Phase wise Go-Live	Since here the Go-Live are in phases, please confirm that O&M shall commence only after the Final Go-Live of the Project i.e. after 15 months and prior to that no O&M activity will be performed on the already commissioined / GO-Live Phase completion	Refer <b>Corrigendum-4</b>
1305	2	313	9. Project Implementation Schedule, Deliverables and Payment Terms	Phase I: Go-Live - T + 5 months City IT Network Infrastructure – OFC laying, pan city availability of secure network for all proposed edge devices & sensors. Guidelines issued by MoUD for cyber security requirement should be adhered to for designing network for sensor & Wi-Fi traffic Phase II: Go-Live - T + 7 months c. City IT Network Infrastructure – OFC laying, pan city availability of secure network or all proposed edge devices & sensors. Guidelines issued by MoUD for cyber security requirement should be adhered to for designing network for sensor & Wi-Fi traffic Phase III: Go-Live - T + 12 months c. City IT Network Infrastructure – OFC laying, pan city availability of secure network or all proposed edge devices & sensors. Guidelines issued by MoUD for cyber security requirement should be adhered to for designing network for sensor & Wi-Fi traffic	We would like to bring to your kind attention that it is extremely difficult to complete the OFC laying for 220 KM across city within 10 months (T+3 months to T+12 months) as it involves permissions & approvals from various government departments, monsoon season, etc. So we request you to kindly exclude the City IT Network Infrastructure (OFC laying) from milestone activities for each of the phases and we request you to kindly allow us time till T+15 months to complete the City IT Network Infrastructure (OFC for 220 KM).	Refer <b>Corrigendum-4</b>
1306	2	314	9. Project Implementation Schedule, Deliverables and Payment Terms	6) Security Audit Certificate from Cert-In/STQC for Data Centre and Applications	We understanding that the STQC Audit would be an One Time activity only. Please confirm on our understandig.	As per RFP
1307	2	316	Payment Schedule	Capex Payment terms	The payment term is not clear on the capex part unable to find out by when the MSI will get the balance 50% payment other than delivery	Refer <b>Corrigendum-4</b>



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1308	2	316	9.1. Payment Schedule	<ul style="list-style-type: none"> <li>• 50% of Value of Capex of supplied items (Hardware &amp; Software) on Pro-rata basis.</li> <li>• 30% of Value of Capex of supplied items after installation of Hardware &amp; Software on Pro-rata basis.</li> <li>• 20% of the services items • 10% of the Phase I Go-Live</li> </ul>	<ul style="list-style-type: none"> <li>• 60% of Value of Capex of supplied items (Hardware &amp; Software) on Pro-rata basis.</li> <li>• 20% of Value of Capex of supplied items after installation of Hardware &amp; Software on Pro-rata basis.</li> <li>• 20% of the services items • 10% of the Phase I Go-Live</li> </ul>	Refer <b>Corrigendum-4</b>
1309	2	316	Payment Schedule	For payment release purpose, Capex value will not be considered more than 80% of total bid value at any stage. • 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 10% of the Services items	As per RFP Capex value will not be considered more than 80% of total bid value. But at multiple payment milestones the total of capex and opex is more than 100 percent. Hence we request you to kindly clarify on the payment terms.	Refer <b>Corrigendum-4</b>
1310	2	316	9.1. Payment Schedule	Other recurring/non-recurring expenses like for Electricity connections & bills, Fees for PUC/ROW/etc. to be paid to Government Departments for Project Execution will be released on actuals by PSCL (These expenses need not to be mentioned in Price Bid).	1. The mentioned 2 clauses regarding ROW charges are contradictory to each other. As per the clause given in Page 316 of Vol-2, we understand that PSCL shall release the charges for ROW charges at actuals. So we request you to kindly delete the clause given in Page 43 of Vol-2 regarding ROW charges. 2. Also we understand that PSCL shall take necessary approvals from concerned Governemnt departments regarding right of way, restoration activities, etc. within stipulated implementation time. Please confirm whether our understanding is correct. 3. Also please confirm if there is any delay in getting approvals for ROW/restoration activities, implementation time for the bidder shall be suitably extended and penalty shall not be levied to the bidder for such delay. Please confirm. 4. We understand that payment for Restoration/Reinstatement (RI) & Fuel charges shall be released on actuals by PSCL as per clause mentioned din Page 316 of Vol-2. Please confirm and kindly amend clause as follows: "Other recurring/non-recurring expenses like for Electricity connections & bills, Fees for PUC/ROW/RI/Fuel charges etc. to be paid to Government Departments for Project Execution will be released on actuals by PSCL (These expenses need not to be mentioned in Price Bid)."	Refer <b>Corrigendum-4</b>
1311	2	316	9.1. Payment Schedule	Other recurring/non-recurring expenses like for Electricity connections & bills, Fees for PUC/ROW/etc. to be paid to Government Departments for Project Execution will be released on actuals by PSCL (These expenses need not to be mentioned in Price Bid).	1. The mentioned 2 clauses regarding ROW charges are contradictory to each other. As per the clause given in Page 316 of Vol-2, we understand that PSCL shall release the charges for ROW charges at actuals. So we request you to kindly delete the clause given in Page 43 of Vol-2 regarding ROW charges. 2. We understand that PSCL shall take necessary approvals from concerned Governemnt departments regarding right of way, restoration activities, etc. within stipulated implementation time. Please confirm whether our understanding is correct. 3. Also please confirm if there is any delay in getting approvals for ROW/restoration activities, implementation time for the bidder shall be suitably extended and penalty shall not be levied to the bidder for such delay. Please confirm. 4. We understand that payment for Restoration/Reinstatement (RI) & Fuel charges shall be released on actuals by PSCL as per clause mentione in Page 316 of Vol-2. Please confirm and kindly amend clause as follows: "Other recurring/non-recurring expenses like for Electricity connections & bills, Fees for PUC/ROW/RI/Fuel charges etc. to be paid to Government Departments for Project Execution will be released on actuals by PSCL (These expenses need not to be mentioned in Price Bid)."	Refer <b>Corrigendum-4</b> in this regard
1312	2	316	9.1. Payment Schedule	Payment Schedule	As per the Payment Schedule, 30% of the CAPEX cost will be released on Installation. Kindly, clarify whether Installtion refers to Physical installation only or Commissioning will also be included as well.	Refer <b>Corrigendum-4</b>
1313	2	316	9.1. Payment Schedule	Payment Schedule	Kindly confirm the timeline for realizing 100% CAPEX payment as this is not specified in payment schedule.	Refer <b>Corrigendum-4</b>
1314	2	316	9.1. Payment Schedule	Payment Schedule	Please confirm what is included in 10% payments in services part mentioned in payment terms. Also, kindly specify in Payment schedule when the MSI shall receive full payment against service items.	Refer <b>Corrigendum-4</b>
1315	2	316	9.1. Payment Schedule	Payment Schedule	The Payment schedule should be in line with the project implementation timeline given under RFP Clause 9 ( Vol II, Pg 311). Kindly, elaborate the Payment Schedule for better understanding	Refer <b>Corrigendum-4</b>
1316	2	316	9.1. Payment Schedule	Other recurring/non-recurring expenses like for Electricity connections & bills, Fees for PUC/ROW/etc. to be paid to Government Departments for Project Execution will be released on actuals by PSCL (These expenses need not to be mentioned in Price Bid).	We understand that one-time connection charges for electricity connection (meter security deposit, meter charges, etc.) as well as recurring charges during implementation and O&M period in all project locations (Temporary & New CCC, DC, Field locations, etc) shall be paid at actuals by PSCL. Please confirm whether our understanding is correct.	Refer <b>Corrigendum-4</b>

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1317	2	316	9.1. Payment Schedule	Other recurring/non-recurring expenses like for Electricity connections & bills, Fees for PUC/ROW/etc. to be paid to Government Departments for Project Execution will be released on actuals by PSCL (These expenses need not to be mentioned in Price Bid).	We understand that one-time connection charges for electricity connection (meter security deposit, meter charges, etc.) as well as recurring charges during implementation and O&M period shall be paid at actuals by PSCL. Please confirm whether our understanding is correct.	Refer <b>Corrigendum-4</b>
1318	2	316	9.1. Payment Schedule	1. Delivery of Hardware/Software - T + 2 Months • 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 10% of the Services items 2. Phase I: Go Live: T + 5 Months • 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Phase I Go-Live 3. Phase II: Go Live: T + 7 Months • 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Phase II Go-Live 4. Phase III: Go Live: T + 12 Months • 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Phase III Go-Live 5. Phase IV: Integration & Project Final Go Live: T1 = T + 15 months • Value of Capex of supplied items (Hardware & Software) and installation in final Go-Live on pro-rata basis. • Remaining of Capex of all the phases	1. We understand that the milestone of Delivery of Hardware/Software (T+2 months) is not applicable as there is no such milestone mentioned in Project Implementation Schedule (Page 311) in Vol-2 of RFP. So, we request you to kindly delete this milestone of T+2 months for delivery. 2. As per Bill of quantity, we understand that components listed under services item shall be delivered during various phases of entire project implementation period. So, to bring better clarity and understanding of the payment terms, we request you to kindly amend the payment terms as follows considering Services items are part of Capex value itself. 1. Delivery of Hardware/Software - T + 2 Months • 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 10% of the Services items 2. Phase I: Go Live: T + 5 Months • 60% 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Capex value against Phase I Go-Live 3. Phase II: Go Live: T + 7 Months • 60% 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Capex value against Phase II Go-Live 4. Phase III: Go Live: T + 12 Months • 60% 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Capex value against Phase III Go-Live 5. Phase IV: Integration & Project Final Go-Live: T1 = T + 15 months • Value of Capex of applicable for Phase -4 supplied items (Hardware & Software) and installation in final Go-Live on pro-rata basis. • Remaining of Capex of all the phases	Refer <b>Corrigendum-4</b>
1319	2	316	9.1. Payment Schedule	9.1. Payment Schedule	Payment Schedule is not giving a clear picture of the cash inflow to bidder. Payment term is split into payment at delivery and installation initially and further again payment specified for delivery of items in each phase. Please provide a clear picture of the CAPEX payment	Refer <b>Corrigendum-4</b>
1320	2	316	9.1. Payment Schedule	50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. 10% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. 10% of the Services items	60% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. 20% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. 10% of the Services items	Refer <b>Corrigendum-4</b>
1321	2	316	Payment Schedule	Delivery of Hardware & Software - 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis - 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis -10% of the Services items Phase 1 go-Live - 50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis - 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis -20% of the Services items -10% of the Phase I Go-Live .....etc.	Request you to kindly amend the Capex payment terms as: - 70% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis on Delivery - 20% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis - 10% of the value of Capex of supplied items against submission of an equivalent amount BG till the completion of project go-live - 20% of the services items on Phase-I Go-Live - 20% of the services items on Phase-II Go-Live - 20% of the services items on Phase-III Go-Live - Remaining Value of Capex against Phase-IV Go-Live	Refer <b>Corrigendum-4</b>
1322	2	316	Payment Schedule	Delivery of Hardware/Software - T + 2 Months	The order placement by successful bidder happens only after survey, feasibility study, location approval and BOM approval. The delivery timeline of 2 months for hardware and software is highly challenging considering the delayed and restricted production of components, delay in transportation , import/export delay etc. due to the pandemic situation in addition to the delay in placing order. Hence authority is requested to provide a minimum delivery timeline of 5 months to supply hardware and software.	Refer <b>Corrigendum-4</b>

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1323	2	317	9.1. Payment Schedule	Note 1: If bidder requests for Mobilization advance, following conditions shall be applicable: a. Interest bearing Mobilization advance (@ 10% Simple Interest) can be of 5% of capex value can be given in two equal installments on production of Unconditional Bank Guarantee of 110% of the requested amount valid for 3 months beyond 10 months of release of advance. b. Mobilization advance shall be adjusted proportionately among all Phases' Payment Release but total recovery shall be made within 10 months of release of advance.	We request you to kindly provide an interest free mobilization advance for 10% of Capex value for better cash flow of the bidder during the project implementation period. Accordingly, kindly amend clause as follows: If bidder requests for Mobilization advance, following conditions shall be applicable: a. Interest free bearing Mobilization advance (@ 10% Simple Interest) can be of 10% 5% of capex value can be given in two equal installments on production of Unconditional Bank Guarantee of 110% of the requested amount valid for 3 months beyond 12 10 months of release of advance. b. Mobilization advance shall be adjusted proportionately among all Phases' Payment Release but total recovery shall be made within 12 10 months of release of advance.	Refer <b>Corrigendum-4</b>
1324	2	317	9.1. Payment Schedule	50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Phase II Go-Live	• 60% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 20% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Phase II Go-Live	Refer <b>Corrigendum-4</b>
1325	2	317	9.1. Payment Schedule	50% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 30% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Phase III Go-Live	• 60% of Value of Capex of supplied items (Hardware & Software) on Pro-rata basis. • 20% of Value of Capex of supplied items after installation of Hardware & Software on Pro-rata basis. • 20% of the services items • 10% of the Phase III Go-Live	Refer <b>Corrigendum-4</b>
1326	2	317	9.1. Payment Schedule	a. Interest bearing Mobilization advance (@ 10% Simple Interest) can be of 5% of capex value can be given in two equal instalments on production of Unconditional Bank Guarantee of 110% of the requested amount valid for 3 months beyond 10 months of release of advance. b. Mobilization advance shall be adjusted proportionately among all Phases' Payment Release but total recovery shall be made within 10 months of release of advance.	We request authorities to give interest free Mobilization Advance instead of 10% interest as per note 1.	Refer <b>Corrigendum-4</b>
1327	2	317	9.1. Payment Schedule	a. Interest bearing Mobilization advance (@ 10% Simple Interest) can be of 5% of capex value can be given in two equal installments on production of Unconditional Bank Guarantee of 110% of the requested amount valid for 3 months beyond 10 months of release of advance.	We request to change these terms as interest free mobilization advance of 10% of capex value	Refer <b>Corrigendum-4</b>
1328	2	318	10. Annexures	Annexures	The list of locations mentioned for individual field level location mapped with individual service. However, we are requesting to kindly provide consolidated list for eg. in location x: PTZ Camera- 1 number, Fixed Box Camera: 4 numbers, 4 numbers, ECB 1 number, Environmental Sensor, 1 Number, PA System 1 number etc. This will help us to design the solution more precisely. This will also help us to design connectivity requirement and estimate the electricity load calculation at each junction. Also requesting to mention the lat long of each location where the field equipment will be implemented. Kindly do the needful.	As per RFP
1329	2	318	Annexure 1 : Bill of Quantity	DR - Server for Facial Recognition System	As GPU server cost will be different than normal virtual servers in Cloud. Please advise where this cost to be included/mentioned?	As per RFP
1330	2	318	10.1. Annexure 1 : Bill of Quantity	Mentioned below is the indicative Bill of Material for each proposed project component, however the below quoted quantity are minimum and MSI is required to access the exact requirement, location wise, for all the proposed solution components and shall accordingly size the hardware and software infrastructure requirement to meet the project objectives and SLA. Bidder can increase the line item/quantity, if required. Proposed quantity should not be less than the Indicative quantity, in any case.	Please confirm how shall LCS (Least Cost Selection) be made to determine L1 bidder on a level playing field. All prospective MSI shall quote different quantities against BOQ as per their individual judgement.	As per RFP
1331	2	318	10.1. Annexure 1 : Bill of Quantity	1.Pancity OFC Network Backbone : 50 mm HDPE Pipe- 220Km	As part of the Fibre Deployment, we are required to creat Manholes & handholes in pathway of Fibre deployment layout as required to maintain the fibre for the duration of the project, but the same is missing in the Bill of material with their relevent details such as size of Holes, qty of hole per mtr distance etc. in that reference request to share the above mentioned detailsv & include the same in the commerical format or BoQ as required to quote or factor commerical accordingly.	As per RFP
1332	2	318	10.1. Annexure 1 : Bill of Quantity	Serial no 53 : GIS , Server Hardware	GIS Blade Server Qty 1 mentioned in RFP. Is it for Production; Please clarify about GIS hardware requirement for Development and Integration testing with other subsystems. Kindly clarify GIS specific DR requirement	As per RFP

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1333	2	318	Annexures:Annexure 1 : Bill of Quantity	Bidder can increase the line item/quantity, if required. Proposed quantity should not be less than the Indicative quantity, in any case.	For such a vast project, there are chances that the inexperienced bidders can under quote with only the indicative quantity and win the bid. To avoid this, authority is requested strictly intimate the bidders to quote for the quantity as per BoQ and any change in quantity during implementation will be billed at actual quantity utilized during the implementation , at the unit rate quoted in BID. Please accept	As per RFP
1334	2	318	Annexures:Annexure 1 : Bill of Quantity	Bill of Quantity	Kindly clarify the below mentioned Points as part of the BOQ:- 1. Kindly share the Location details for actual deployment of the equipment or solution such as CCTV, ITMS, ATCS, PAS , ECB & ES and VMS etc. as the same is required to calculate the entire Non-IT BoQ & Desing the Archtiecture accordingly.	As per RFP
1335	2	318	Annexure 1 : Bill of Quantity	Camera Count and distribution for ITMS - RLVD junctions are not available	Pls share list of locations with Arms / lane information do design proper field infrastructure.	As per RFP
1336	2	318	10.1. Annexure 1 : Bill of Quantity	Initially part of the BoQ would be housed in the temporary building as per the minimum and essential requirements for the functioning of the ICCC. Later, full and final BoQ would be housed in the permanent new building including the transfer of the equipment from the temporary building to the permanent building. MSI has to do necessary minor changes in walls/partition in temporary building as per requirement.	1. From the RFP, we understand that CCC & DC shall be first implemented in a temporary building. So we request you to kindly provide us the location and size of temporary ICCC building. Also kindly confirm on the scope of Bandwidth, Interior and furniture for temporary CCC building. 2. Once the new ICCC building is ready, we request you to kindly allow necessary downtime during migration from temporary CCC to new ICCC building and also confirm that SLA shall not be levied during the migration period.	As per RFP
1337	2	318	10.1. Annexure 1 : Bill of Quantity	Initially part of the BoQ would be housed in the temporary building as per the minimum and essential requirements for the functioning of the ICCC. Later, full and final BoQ would be housed in the permanent new building including the transfer of the equipment from the temporary building to the permanent building. MSI has to do necessary minor changes in walls/partition in temporary building as per requirement	Please provide the details of this temporary ICCC with Minimum and essential requirements to be fulfilled. Also provide the details about the permanent ICCC status (under construction, work in progress and completion period expected)	As per RFP
1338	2	318	10.1. Annexure 1 : Bill of Quantity	Item No. 1- 50 mm HDPE Pipe- 220 Kms	Digging work will be complete 220 Kilometres in the city, for this work 3 Inch B Class GI Pipe will be required for Road Crossing, Bridges etc. So it should be added in line item.	As per RFP
1339	2	318	7.12. Functional & Technical Requirements RLVD System	UPS- (500 VA with 40 Mins battery backup at full load)/UPS with 1 hr backup)	Kindly confirm the Battery backup as 40Mins or 1 Hour.	As per RFP
1340	2	318		Data Center - Server for Facial Recognition System	As there is no line item for FRS servers, request you to confirm where FRS servers (GPU Servers) cost to be considered/included?	As per RFP
1341	2	319	7.11. Functional & Technical Requirements for ANPR System	Video Wall Controller (With Required Adaptors, Converter, 4- port Display Graphic card, 4- channel HDcapture card with DVI splitter cables, Cabling & Other Fixtures, etc)- 2 nos.	Please confirm the number of 4 channel -HD Capture card to be consider in each controller.	As per RFP
1342	2	319	10.1. Annexure 1 : Bill of Quantity	7)Rate contract Price for providing the OFC Connection in the premises of Government Building as and when required. Connectivity has to be provided on Fibre (upto 100 Mtr) as well as on RJ45 Ethernet	Need more Clarification on this	As per RFP
1343	2	319	10.1. Annexure 1 : Bill of Quantity	Rate contract Price for Pancity OFC Connection in the premises of Government Building as and when required. Connectivity has to be provided on Fiber (Upto 100 Mtr)as well as on RJ45 Ethernet.	Please clarify the following: 1) Connectivity can be overhead or underground. Please clarify. 2) In case Cable is beyond 100 m, Bidder must be paid accordingly. 3) Switches for connecting Government building is already included in bill of material of access switches or will be in PSCL Scope. 4) We understand that scope of work exclude any civil work, furniture, air conditions etc. PSCL will provide rack space, power supply and earthing at these location.Bidder's scope is limited to any supply & installation of switches.	As per RFP
1344	2	319	10.1. Annexure 1 : Bill of Quantity	70 Inches Panel for DLP based Video Wall- 20 nos.	Please confirm the matrix( Column & Row) of video wall in each room	As per RFP
1345	2	319	10.1. Annexure 1 : Bill of Quantity	Access Fiber Cable: Loose- Tube,Gel-Free Cable 48F, MMF (Armoured)- 40 Kms	As Completed Fiber solution based on Single Mode fibre but the 48F Cable is required in MMF( Armoured), In that reference we request to changed it into Single Model instead of MMF.	As per RFP
1346	2	319	10.1. Annexure 1 : Bill of Quantity	6) Access Fiber Cable : Loose Tube, Gel-Free Cable 48F,MMF (Armoured)--> 40 KMs	Require clarification on Multi mode fiber utilization , Multimode fiber support only 300mtr (OM3) to 500mtr (OM4) in 10Gbps speed and 800 to 1000mtr (OM3/OM4) in 1Gbps speed .	As per RFP
1347	2	320	Bill of Quantity	FRS-Master Server Database (can store upto 10,00,000 Live Templates with Social Media/Offline Database matching)(50 Camera Licenses)	As per RFP BOQ we understand that totally 25 nos FRS license is required but in server line item it is mentioned that 50 license. Kindly clarify how many FRS licence to be considered and also pls share the bifurcation for online and offline FRS license.	As per RFP

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1348	2	320	Bill of Quantity	Dome cameras for Internal Surveillance/Fixed Box Cameras	Dome cameras for internal surveillance has been mentioned, dome cameras are normally preferred for internal area, technical specifications are missing for dome cameras in the tender, please help to clarify	As per RFP
1349	2	322	7.11. Functional & Technical Requirements for ANPR System		Request to change this clause "Blade Chassis -As per bidder's requirement" Justification - Every Blade Chassis vendor has different design and form factor. Therefore the no. of blade servers one chassis can support varies from vendor to vendor. While some chassis vendors have 8 blade slots whereas other's can house upto 12 blade servers. As per current BoQ, the approx. server qty. is not more than 50-60 which some vendors can easily fulfill using 5 chassis and propose space as well as cost optimised solution. Also, fabric interconnect is vendor specific terminology and hence request to delete the same.	As per RFP
1350	2	322	10.1. Annexure 1 : Bill of Quantity	36. Data Centre Hardware :Core Router-2 nos	As per RFP, Internet Router is required to deployed in the Data Centre and specification for the same also given in the RFP, But lineitem for Internet router with Qty is missing in the Bill of material. Request to include the same for factored the commercial accordingly.	As per RFP
1351	2	323	7.11. Functional & Technical Requirements for ANPR System	WAF and SLB both are typically deployed in the DMZ network before the server farm to protect and load balance the application traffic to the backend server. From technology and commercial prospective, it is best to have SLB and WAF on the same appliance because both solutions complement each other.	Request you to change the Bill of Material to "Server Load Balancer + Web Application Firewall-2"	As per RFP
1352	2	324	Bill of Quantity	ICCC core application (HA)/ICCC Software	Kindly provide the number of Operator License Quantity for ICCS Software	As per RFP
1353	2	324	10.1. Annexure 1 : Bill of Quantity	73 Software Solutions Licenses for Facial Recognition (Channels) No. 25	Please share the required Watch list database. Recommended to have real time watch list database - 10,000 and Offline database support - 1,00,000	As per RFP
1354	2	324	7.11. Functional & Technical Requirements for ANPR System	Video Management Software licenses for recording and managing for all new and existing Cameras with redundancy	As per RFP we understand that ,VMS license and VMS server (recorder and management )to be considered for all existing cameras along with the current solution. Pls confirm	Yes, your understanding is correct
1355	2	324	7.11. Functional & Technical Requirements for ANPR System	Video Management Software licenses for recording and managing for all new and existing Cameras with redundancy No. 1	Kindly clarify whether to consider storage and bandwidth for existing cameras	The MSI need to calculate the required Storage and bandwidth in the most optimized way as per Camera specifications, resolution and video retention policies out-lined in the RFP
1356	2	325		Specification Enclosed	Specification missing for this line of item.Please provide specification for Enterprise GIS for Web GIS with GeoAnalytics	Refer reply to query at S.No. 289
1357	2	325	10.1. Annexure 1 : Bill of Quantity	Enterprise GIS for Web GIS with Geo Analytics "Specification Enclosed"	"Specification enclosed" is mention in page no. 325 but we can't find any specification Please indicate the page no. As a best practice of Implementing Enterprise GIS for Smart City, typically following scope of work is part of Enterprise GIS Implementation. 1. Web GIS Portal for Citizen 2. Web GIS Application for Various Departments like Town planning, Property tax, Road, Health & Sanitation, Education, Parks & Garden, Hoarding & Advertisement, Utilities etc.. 3. Change Detection Application using Enterprise Image Processing Capabilities to check encroachment, monitor and control change in Land use/Land cover, Change in Green cover, water bodies & Monitor Urban Sprawl over a period of time. 4. Enterprise GIS Integration with ICCS, Smart City Applications and EGovernance applications We request you to kindly confirm about scope of Enterprise GIS in line with above suggestion and provide the functional details of the same.	Refer reply to query at S.No. 289
1358	2	325	10.1. Annexure 1 : Bill of Quantity	91- GIS - Enterprise GIS for Web GIS with Geo Analytics - Specification Enclosed	It is assumed as Enterprise GIS license includes of desktop GIS license also. Pls confirm.	Refer reply to query at S.No. 289
1359	2	325	10.1. Annexure 1 : Bill of Quantity	91- GIS - Enterprise GIS for Web GIS with Geo Analytics - Specification Enclosed	Specification is missing in the RFP	Refer reply to query at S.No. 289
1360	2	325	10.1. Annexure 1 : Bill of Quantity	164 1P PDU with Ethernet based Environment Monitoring	Kindly clarify, 16A, 1P PDU with Ethernet based Environment Monitoring.	As per RFP
1361	2	326	10.1. Annexure 1 : Bill of Quantity	Supply & Installation of signal head with 3 signal aspect -Red, yellow Green Arrow	Kindly clarify whether left turn and Right Turn LED aspect is included in the same. The clarification will help us to design the solution and arrive at the proper cost estimation. Please clarify.	As per RFP

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1362	2	326	10. Annexures	104. ITMS-ATCS Supply & Installation of signal head with 3 signal aspect -Red, Yellow, Green Arrow : No. 240 105. ITMS-ATCS Supply & Installation of Signal head with 1 signal aspect - Green Arrow: No. 480 106. ITMS-ATCS Supply & Installation of Signal head with 2 signal aspect - Pedestrian Red & Ped Green: No. 120 107. ITMS-ATCS Supply & Installation of Galvanised Iron Class B Traffic Signal straight pole of 6 m height with all accessories: No. 120	In the RFP, location details of 30 ATCS junctions to be deployed is not available, however considering the quantity of Vehicle Detection Camera and Count Down Timers we assume that all 30 junctions are 4Arm type. As for a proper visibility three type of traffic lights are required covering primary vertical, primary horizontal and secondary aspects, also all the possible directions(i.e. Straight, Right or Left) must be provided with visual indication in the form of red and green traffic lights. Pedestrian Lights are required at both ends of each arm. Hence the quantity of the items specified in the BOQ here should be modified as mentioned below: 104. ITMS-ATCS Supply & Installation of signal head with 3 signal aspect -Red, Yellow, Green Arrow: No. 360 105. ITMS-ATCS Supply & Installation of Signal head with 1 signal aspect - Green Arrow: No. 720 106. ITMS-ATCS Supply & Installation of Signal head with 2 signal aspect - Pedestrian Red & Ped Green: No. 240 107. ITMS-ATCS Supply & Installation of Galvanised Iron Class B Traffic Signal straight pole of 6 m height with all accessories: No. 240	As per RFP
1363	2	326	Annexure 1 : Bill of Quantity	ATCS Traffic signal controller No. 30 ATCS Vehicle Detection Camera No. 120 ATCS Countdown timer No. 120	1) A per BoQ, we understand that ATCS needs to installed in 30 locations. Each locaton has 4 arms. Kindly confirm. 2) Kindly share the details of the proposed 30 locations	As per RFP
1364	2	326	10.1. Annexure 1 : Bill of Quantity	98 DR Site Rate Contract for Server Computing with OS, Database, Security Features as per MEITY Guidelines. (4 Core, 32 GB RAM per VM per month) - VM 1	As cloud sizing is based on bidder's solution and the same cannot be provided as rate contract, we request you to kindly change UoM from 1 VM to 1 Lot.	As per RFP
1365	2	327	10. Annexures	111 ITMS-RLVD Red light Violation Detection (RLVD) Evidence Cameras No. 360	As per RFP BoQ, we understand that RLVD needs to be installed in 90 locations considering 4 arms each and each arm having 2 lanes. The following solutions should also be considered in these 90 locations along with RLVD solutions • Speed Violation Detection (SVD) • No Helmet Violation detection (NHVD) • Free Left violation detection (FLVD) • Triple riding violation detection (TRVD) • Vehicle Wrong Direction detection (VWDD) Kindly confirm If yes , Do we need to consider additional Camera for this activity? (Free Left Violation Detection & Wrong way vehicle movement , cameras are to be mounted separately from RLVD mounting and hence additional cameras will be required which would be approx. one camera per lane).	As per RFP
1366	2	327	10.1. Annexure 1 : Bill of Quantity	Additional Clause:	Requesting you to add the following clause: "Civil & Electrical Works for ATCS; 30 Lumpsum" Justification: The civil & electricalworks line item is not mentioned in the BoQ and this comprises of a mJOR cost in ATCS deployment. Hence, requesting you to add the same in the BoQ.	As per RFP
1367	2	327	10.1. Annexure 1 : Bill of Quantity	ITMS-ATCS; Supply & Installation of Cabinet for UPS, Switches, etc with Mounting Structure, junction boxes, other accessories, etc; 240 Sets	Requesting you to revise the clause as follows: "ITMS-ATCS; Supply & Installation of Cabinet for UPS, Switches, etc with Mounting Structure, junction boxes, other accessories, etc; 30 sets" Justification: The quantities should be equal to the no. of junctions as one of these would be required per junction	As per RFP
1368	2	327	10.1. Annexure 1 : Bill of Quantity	ITMS-ATCS; Supply & Installation of Signal head with 2 signal aspect - Pedestrian Red & Ped Green; 120 Nos	Requesting you to revise the clause as follows: "ITMS-ATCS; Supply & Installation of Signal head with 2 signal aspect - Pedestrian Red & Ped Green; 240 Nos" Justification: Considering 30 junctions as 4-armed, the requirement for the Pedestrian Red and Pedestrian Green would be 120 for each, i.e., 240 in total.	As per RFP
1369	2	328	10. Annexures	116 ITMS-Speed Detection Speed Detection System for covering 2 lanes In one direction with complete subcomponents including ANPR Camera, sensors, wide angle evidence camera, IR Illuminator, non- Intrusive speed sensor, with cabling & mounting infrastructure as required No. 10	As per RFP BoQ, camera based speed violation detection system is asked in 10 locations. Kindly confirm these locations are separate from the RLVD locations	As per RFP
1370	2	328	10. Annexures	116 ITMS-Speed Detection Speed Detection System for covering 2 lanes In one direction with complete subcomponents including ANPR Camera, sensors, wide angle evidence camera, IR Illuminator, non- Intrusive speed sensor, with cabling & mounting infrastructure as required No. 10	As per RFP BoQ, camera based speed violation detection system is asked in 10 locations. Kindly confirm these locations are separate from the RLVD locations. And also pls share the location details with no of Arms and lanes informations.	As per RFP
1371	2	328	10. Annexures	117 - Surveillance System Outdoor Fixed Box Bullet Camera No. 60 118 Surveillance System Outdoor PTZ Camera No. 60	1. As per BOQ 120 Cameras asked part of surveillance system, Pls clarify where these 120 cameras will be installed? Pls share the locations details . 2.In BOQ it is mentioned that Fixed Box Bullet camera .Pls clarify whether Fixed BOX or Bullet to be considered.	As per RFP
1372	2	328	10. Annexures	121) Variable messaging System Mounting structure - 15 No.s	Number of VMS display is 30 no.s. Accordingly quantity of structures should also be 30 no.s. However BOQ is asking 15 no.s only . We believe there is typo error . Please change quantity of structures as 30 no.s	As per RFP



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1373	2	328	10.1. Annexure 1 : Bill of Quantity	Local processing unit / Rack Servers with 3 GPUs in Data Centre (ANPR Servers) : 40	Traffic violations capturing software will be installed on Local processing units which will be placed at junction box. Qty of LPU's vary as per the proposed architecture of solution provider. Hence we request you to amend the clause as "Local processing unit: As required"	As per RFP
1374	2	328	10.1. Annexure 1 : Bill of Quantity	Local processing unit / Rack Servers with 3 GPUs in Data Centre (ANPR Servers) : 40	Traffic violations capturing software will be installed on Local processing units which will be placed at junction box. Qty of LPU's vary as per the proposed architecture of solution provider. Hence we request you to amend the clause as "Local processing unit: As required"	As per RFP
1375	2	328	7.11. Functional & Technical Requirements for ANPR System	Variable Messaging System; Variable Message Sign Board with all accessories: 30 Nos Variable Messaging System; Mounting structure with all: 15 Nos	We understand that 2 units of VMS would be installed on each mounting structure. Please clarify and confirm if our understanding is correct.	As per RFP
1376	2	329	10. Annexures	127 CCTV-Police Area - ANPR Box camera with External IR Illuminator No. 134	Tender is asking for ANPR cameras in surveillance system, These ANPR cameras would be used for RLVD system or these cameras are for free flow ANPR detection system?	As per RFP
1377	2	329	10.1. Annexure 1 : Bill of Quantity	All type of Environmental Sensors with Management Software No. 5	Kindly share the location details.	As per RFP
1378	2	329	10.1. Annexure 1 : Bill of Quantity	ANPR Box camera with External IR illuminator	In the technical specifications section, we have an option to propose Box / Bullet camera, thus, requesting to provide an option in the BOQ and amend the clause as ANPR Box /Bullet camera with External IR illuminator	As per RFP
1379	2	329	7.11. Functional & Technical Requirements for ANPR System	UPS- (500 VA with 40 Mins battery backup at full load)/UPS with 1 hr backup)- 800 Nos	As per Given clause, kindly confirmed whether UPS Backup will be required for 40 Min or 1 hrs. The same is required to calculate the actual size of the battery & their subsequent components.	As per RFP
1380	2	330	10.1. Annexure 1 : Bill of Quantity	Line item no. 140- Outdoor Fixed Bullet Camera- 390 Nos.	Kindly, clarify where these cameras need to be fixed and what kind of mounting arrangement will be provided or to be procured.	As per RFP
1381	2	330	10.1. Annexure 1 : Bill of Quantity	Line item no. 144- Managed 24 Port L3 Edge switch- 6 Nos.	Field Infrastructure like Field Switches, Junction Box, Cables and accessories are not asked for Railway section. Kindly, clarify do we need to provide the same or it will be provided by PSCL.	As per RFP
1382	2	330	10.1. Annexure 1 : Bill of Quantity	Online UPS (3 KVA with 2hrs backup)	The Given clause seems to conflict to each other in term of backup time of 3KVA UPS System. In that reference, please provide confirmation on the actual backup time required for 3kva UPS system as part of this project requirement, whether it will be 60 min or 120 min/2 Hrs of above mention capacity of UPS System. please clarify.	As per RFP
1383	2	331	10.1. Annexure 1 : Bill of Quantity	DC-Security IDAM, SSLI, PAM, SSO	Please mention the quantity required for SSO	As per RFP
1384	2	332	Annexures:Annexure 1 : Bill of Quantity	Billboards for poles No. 500	Please clarify any policy related to Bill boards or bill board advertisements	As per RFP
1385	2	334	10.2. Annexure 2 : Floor Wise Layout for Final Building	This building will be constructed in an approximate time of 18 months. ICC & DC along with the cabling and other accessories will be shifted to this building after that. Desired solution is based on this layout only.	As per clause, System & Sub-system of ICC & DC will be shifted to the newly constructed building post 18 months. In that reference we are required to quote/factor the commercial for shift the same but lineitem of this Migration activities neither mentioned in the BoQ nor in the commercial format, we request to add the same.	The permanent ICC / DC building is almost completed and as such. Temporary ICC / DC setup need not be considered by the bidder.
1386	2	334	10.2. Annexure 2 : Floor Wise Layout for Final Building	This building will be constructed in an approximate time of 18 months. ICC & DC along with the cabling and other accessories will be shifted to this building after that. Desired solution is based on this layout only.	As per given clause ICC & DC will be shifted to newly constructed building after 18 months, please confirm on prior to this where does ICC & DC will be setup and we are also assuming that necessary civil setup & Space for the same will be provided by the department or PSCL.	Refer reply to S.No. 1385
1387	2	341	Annexure 4 : Existing Installed Adaptive Traffic Management System	Existing Installed Adaptive Traffic Management System	In the RFP details of existing Adaptive Traffic Signal is given in which details of 52 junctions is mentioned. But as per BOM traffic signal controllers are asked as 30 Nos. means ATCS is to be deployed on 30 junctions and the details of these junctions is not mentioned. You are requested to please provide the details of junctions which are to be deployed under the scope of this RFP.	For sake of complete clarity the successful MS need to carry site survey.
1388	2	341	10.4. Annexure 4 : Existing Installed Adaptive Traffic Management System	10.4. Annexure 4 : Existing Installed Adaptive Traffic Management System	1) Annexure 4 contains details about existing ATCS signal locations. Kindly clarify whether these junctions need to be integrated with the proposed 30 locations. 2) If yes, Kindly confirm whether to consider compute and storage for these existing 52 locations	As per RFP
1389	2	343	10.5. Annexure 5 : List of Sites for CCTV Surveillance at Police Station and Railway Station Area	Fixed Bullet Camera - 374 Nos PTZ Camera -292 Nos ANPR Camera - 134 Nos List of Locations under various Police Station: Totally 321 locations	As per RFP we understand that, 800 Cameras ( 374+134+292)needs to be installed across 321 location .kindly share location wise camera bifurcation details.	Visit the area and use your own judgement/ Bid Strategy

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1390	2	343	10.5. Annexure 5 : List of Sites for CCTV Surveillance at Police Station and Railway Station Area	List of Sites for CCTV Surveillance at Police Station and Railway Station Area	Please share Latitude and Longitude of all locations for estimation purposes.	Visit the area and ascertain these lat & long for bidding purpose yourself.
1391	2	343	10.5. Annexure 5 : List of Sites for CCTV Surveillance at Police Station and Railway Station Area	List of Sites for CCTV Surveillance at Police Station and Railway Station Area	Request you to provide the location/junction wise list for all the components like ANPR,RLVD, Public address system, Variable message board etc. with the respective quantity.	Visit the area and use your own judgement/ Bid Strategy
1392	2	343	10.5. Annexure 5 : List of Sites for CCTV Surveillance at Police Station and Railway Station Area	List of Locations under various Police Station: Totally 321 locations Fixed Bullet Camera - 374 Nos PTZ Camera -292 Nos ANPR Camera - 134 Nos Total 800 Cameras	As per list of locations only 292 PTZ Camera asked but in BOQ 330 Nos Asked. Kindly Clarify the Quantity Variations	As per RFP
1393	2	367	10.18. Annexure 108 : Analytics Use Cases Required with the Type of Locations	Vehicle Related: 150	As number plate of the vehicle will be read by ANPR cameras, hence vehicle related analytics will be implemented on ANPR and ITMS cameras only. Please confirm that our understanding is correct.	Refer <b>Corrigendum-4</b>
1394	2	367	10.18. Annexure 108 : Analytics Use Cases Required with the Type of Locations	Video Analytics Use Cases: 100 Surveillance Related at Property of interest/Other Analytics (Bus Stop, Important Buildings, Monuments, Parks, Stadium, Tourist Locations, Education Institutes, etc.): 200	Video analytics qty mentioned at page 275 & 367 are contradictory. Please confirm the final quantities.	Refer reply to query at S.No. 1393
1395	2	367	10.18. Annexure 108 : Analytics Use Cases Required with the Type of Locations	Video Analytics Use Cases: 100 Surveillance Related at Property of interest/Other Analytics (Bus Stop, Important Buildings, Monuments, Parks, Stadium, Tourist Locations, Education Institutes, etc.): 200	Video analytics qty mentioned at two places are contradictory. Please confirm the final quantities.	Refer reply to query at S.No. 1393
1396	2	367	10.18. Annexure 108 : Analytics Use Cases Required with the Type of Locations	Video Analytics Use Cases: 100 Surveillance Related at Property of interest/Other Analytics (Bus Stop, Important Buildings, Monuments, Parks, Stadium, Tourist Locations, Education Institutes, etc.): 200	Video analytics quantity mentioned at two places are contradictory. Please confirm the final quantities.	Refer reply to query at S.No. 1393
1397	2	377	Integration Architecture	Data integration in batch mode will be through ETL. The following integration points could be considered for ETL based data integration - o Initial data migration to cleanse, validate and load the data extracted from source systems into target tables. o Data load from all the individual transactional systems like ERP, Grievance Redressal to central enterprise data warehouse solution for aggregation, mining, dashboard reporting and analytics.	1. Please let us know the amount of data to be migrated (for example type and quantum of master data, open items, balances etc.). We can provide the necessary templates and upload data, however we expect pre defined Team would fill the Template. Please confirm your acceptance of this approach. 2. What is the quantum of Data to be migrated/entered - please give module wise details? Who will provide infrastructure for data entry? Is this referring to one time legacy- cutoff data entry or day to day operations as well? 3. Please confirm size of electronic data that needs to be migrated to the new system. 4. Other queries : • What is the current database size? Is it required to retain current data after migration? • What is expected Data Growth? What is the data retention policy? • How frequently data needs to be archived?	As per RFP
1398	2	377	Integration Architecture	ESB should support SOA standards such as XML, XSLT, BPEL, web services standards and messaging standards.	Besides the standards listed in this point, there are many more standards that an ESB should support. This list is not exhaustive and contains some standards that are not relevant. Please clarify whether only the mentioned standards are to be supported or that the mentioned standards are indicative only and the relevant standards are to be supported.	As per RFP
1399	2	377	Integration Architecture	ESB should support SOA standards such as XML, XSLT, BPEL, web services standards and messaging standards.	We would request you change the statement to “ ESB should support SOA standards web services standards and messaging standards which are widely accepted in the world at present.”	As per RFP
1400	2	377	Integration Architecture	ESB should support SOA standards such as XML, XSLT, BPEL, web services standards and messaging standards.	We would request you change the statement to “ ESB should support SOA standards web services standards and messaging standards which are widely accepted in the world at present.” Reason – The standards mentioned in the clause contains some standards which are not up to date and not widely accepted now.	As per RFP

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1401	2	377	10.19. Annexure 19 : ICCC Design Considerations	An enterprise service bus (ESB) is a software architecture model used for designing and implementing the interaction and communication between mutually interacting software applications in Service Oriented Architecture. As software architecture model for distributed computing it is a variant of the more general client server software architecture model and promotes strictly asynchronous message oriented design for communication and interaction between applications. Its primary use is in Enterprise Application Integration of heterogeneous and complex landscapes. Following are the requirement for an ESB system	Kindly specify the Line Item for ESB and API Management Solution in the Software Bill of Material to ensure that the Bidder provides a proper full-use enterprise ESB & API Management Product (Just as the way other software line items are specified)	As per RFP
1402	2	377	10.19. Annexure 19 : ICCC Design Considerations	SMS services are envisaged to be made available as part of the solution design. The service provider may integrate the solution with MSDG, and use the services available through it, or deploy its own SMS Gateway services at no extra charge to PSCL, but it is a mandatory requirement that all the SMS based services (alerts and notifications) should be available as part of the solution	We understand that SMS gateway will be arranged by department. Please confirm on our understanding. We understand that all commercial transaction cost associated with SMS Transactions would be managed by department. The same will be out of scope of bidder. Please confirm on our understanding.	The MSI shall be responsible for SMS gateway and associated charges. All commercial transaction cost associated with SMS Transactions should be borne by the MSI
1403	2	378	10.19. Annexure 19 : ICCC Design Considerations	The solution is envisaged to have integration with payment gateways, to enable authorized Users make financial transactions, as per rights and privileges provided to him/her. The service provider is required to make the provisions for integration with such third party gateways and provide payment services, as per requirement of the PSCL	We understand that Payment gateway will be arranged by department. Please confirm on our understanding. We understand that all commercial transaction cost associated with Payment Transactions would be managed by department. The same will be out of scope of bidder. Please confirm on our understanding.	Refer reply to S.No. 1402
1404	2	378	10.21. Annexure 121 : Standards for Bio-Metrics	Email services are envisaged to be made available as part of the solution design to send alerts/intimations/automated messages to registered email ids, based on preferences set up/opted by individual users. An authenticated SMTP mail service (also known as a SMTP relay or smart host) is envisaged to be integrated with the solution for sending mail from the solution, and delivered to intended inbox. Support anti-spam features.	We understand that email gateway will be arranged by department. Please confirm on our understanding. We understand that all commercial transaction cost associated with email Transactions would be managed by department. The same will be out of scope of bidder. Please confirm on our understanding.	As per RFP
1405	2	382	Application Security	Additional Point	Additional Point	As per RFP
1406	2	382	Application Security	Additional Point	Justification: Application is an critical part for any project and test should be done at static and dynamic level and should give integrated report and dashboard. Change Requested : Proposed Solution of SAST and DAST should have seamless Integration and single console	As per RFP
1407	2	382	Application Security	Additional Point	Justification: Volumetric / Sizing Missing Change Requested : Solution should be sized for 3 No. of Testers and 20 Application	As per RFP
1408	2	382	N/A	Additional Point	Justification: Volumetric / Sizing Missing Change Requested : Proposed PAM solution should be sized for 200 Devices and IDAM for 1000 Users	As per RFP
1409	2	383	10.19. Annexure 19 : ICCC Design Considerations	Install enterprise-level e-mail anti-security software to reduce vulnerability to phishing and other e-mail security spams. This would check both incoming and outgoing messages to ensure that spam messages are not being transmitted if a system becomes compromised.	Understand that email security solution to be considered, please provide the specifications for emails security and include it in BoQ line item	As per RFP
1410	2	385	Performance and Load Testing	SI is expected to implement performance and load testing	We understanding that the Performance and Load Testing would be an One Time activity only. Please confirm on our understanding. Please also let us know who will provide the environment for Performance and Load Testing.	As per RFP
1411	2	387	10.20. Annexure 110 : Common guidelines regarding compliance of systems / equipment	22. SI shall place orders on various OEMs directly or through distributor and not through any sub-contractor / partner. All licenses should be in the name of the PSCL.	Please amend as follows as many foreign OEMs are accepting orders through their authorized distributors only 22. SI shall place orders on various OEMs directly or through distributor and not through any sub-contractor / partner. All licenses should be in the name of the PSCL.	As per RFP
1412	2	401	Creation of Mobile Services Delivery Gateway (MSDG)	e) Mobile-Based Electronic Authentication of Users: For electronic authentication of users for mobile-based public services, MSDG shall incorporate suitable mechanisms including Aadhaar-based authentication. This will also help in ensuring appropriate privacy and confidentiality of data and transactions	a. As per our understanding, department shall liaise and engage with ASA/UIDAI for all subscriber formalities for Aadhaar Authentication transactions. Please confirm on our understanding. b. We understand that storage of Aadhaar number is not part of the scope of the project. The proposed solution shall only be storing the UID Token against the Aadhaar Number that it receives from UIDAI at the time of Aadhaar Authentication. Please confirm on our understanding.	As per RFP
1413	2	405	10.25. Annexure 165 : Standards for Mobile Governance	Voice based Forms: The user dials a number and then chooses from options on a menu, useful when there are low levels of literacy among data collectors, or when a system is needed that caters for both landline and mobile phones.	As per our understanding of this clause, you are looking for Speech-To-Text for filling the voice based forms. Kindly specify the languages required for Voice Based Forms.	As per RFP

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1414	2	420	10.29. Annexure 29 : Standards for Disaster Management	x) Although, PSCL will facilitate to provide all Government approvals like, for Pollution Clearance, Fire Audit & Clearance, Right of Way, etc., but SI has to bear the cost/fees for the same (if any).	1. The mentioned 2 clauses regarding ROW charges are contradictory to each other. As per the clause given in Page 316 of Vol-2, we understand that PSCL shall release the charges for ROW charges at actuals. So we request you to kindly delete the clause given in Page 43 of Vol-2 regarding ROW charges. 2. Also we understand that PSCL shall take necessary approvals from concerned Government departments regarding right of way, restoration activities, etc. within stipulated implementation time. Please confirm whether our understanding is correct. 3. Also please confirm if there is any delay in getting approvals for ROW/restoration activities, implementation time for the bidder shall be suitably extended and penalty shall not be levied to the bidder for such delay. Please confirm. 4. We understand that payment for Restoration/Reinstatement (RI) & Fuel charges shall be released on actuals by PSCL as per clause mentioned in Page 316 of Vol-2. Please confirm and kindly amend clause as follows: "Other recurring/non-recurring expenses like for Electricity connections & bills, Fees for PUC/ROW/RI/Fuel charges etc. to be paid to Government Departments for Project Execution will be released on actuals by PSCL (These expenses need not to be mentioned in Price Bid)."	As per RFP
1415	2	420	10.29. Annexure 29 : Standards for Disaster Management	x) Although, PSCL will facilitate to provide all Government approvals like, for Pollution Clearance, Fire Audit & Clearance, Right of Way, etc., but SI has to bear the cost/fees for the same (if any).	Please confirm that all the recurring/non-recurring expenses like for Electricity connections & bills, Fees for PUC/ROW/ Fuel for DG genset etc. will be released on actuals by PSCL.	As per RFP
1416	2	420	10.29. Annexure 29 : Standards for Disaster Management	The UC&C Application shall support native and off-the-shelf failover options without any dependency on external application for both Hardware and Application level fail over.	Request to modify the clause as below: The UC&C Application shall support failover at Application level. Justification: Support for Native and off-the-shelf failover for hardware is usually not supported by UC&C	As per RFP
1417	2	420	10.29. Annexure 29 : Standards for Disaster Management	The vehicle detector should Forward firing technology multilane radar/video based technology with 4D object tracking with HD resolution. The sensor should be capable of working in fog, rain and without any requirement of cleaning and can provide precise information on counting , classification queue length for at least 175 meters for all stopped and moving vehicles..	This is OEM specific to qualify for solution, request you to make it general.	As per RFP
1418	2		5.2.3.4. Functional & Technical Requirements for Centralized AV & Anti-Spam		You have mentioned Zero day threat protection at number of places in RFP but there are no specifications defined in RFP for Anti-APT	Refer Annexure to <b>Corrigendum-4</b> for detail specification of Anti-APT
1419	2			Software Functions	A lot of software functionalities are overlapping and thus leading to duplicity in function. eg. Features of ICCV/VMS/ ITMS software. Kindly add: To avoid duplicity in features please allow combination of ICCV/VMS/Other software to meet all functional and technical requirements of respective software	No change
1420				General	Solution must have ability to export threat intelligence thru Data Exchange Layer (DXL) communication fabric that connects and optimizes security actions across multiple vendor products	No change
1421				General	Solution should cover of all IP-based protocols (TCP, UDP, ICMP, GGP, IGMP, etc.) and all frame types (IP, ARP, etc.) with fine-grained filtering (IP and MAC addresses, ports) and basic prevention of denial of service (DoS) attack	No change
1422				General	Solution should have out-of-the-box vulnerability protection for over 100 applications, including database, Web, email, and FTP services etc.	No change
1423				General	Solution should support at least Windows 10, Windows Server 2008, 2012, 2016, RHEL 32 bit and 64 bit, CentOS, Debian, Ubuntu, AIX, HP-UX, Oracle Linux, and SUSE.	No change
1424				General	The device must have functionality of hardware based fail-open & Software (memory dump issue) Fail Open. NIPS must also have fail-open feature which must allow traffic	No change
1425	2		2.8 Earnest Money Deposit (EMD)	Rs 2,15,87,000/- (Rupees Two Crore Fifteen Lakh Eighty-Seven Thousand) only (Refundable) in the form of unconditional Bank Guarantee, DD of Scheduled Bank; Post Office Term Deposit/ FD/NSC to be pledged in favor of Managing Director, Patna Smart City Ltd, payable at Patna.	As per the recent Notification No. F.9/4/2020-PPD from the Ministry of Finance, we request you to kindly accept EMD declaration instead of Bank Guarantee. We would like to inform you that recent safe & smart city tenders are issued with this EMD exemption clause.	Refer reply to similar query at SI. No. 17 & 267
1426	2			Field Survey needs to be done by SI	Kindly clarify what kind of field survey would be required to be carried out. Is the door to door property survey part of the Scope of Work? Any other survey needs to be carried out?	As per RFP

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1427	2			Perimeter DDoS solution should be a dedicated hardware appliance and must not use common hardware platform of Firewall, Link load-balancer, Server Load Balancer and SSLI. I would request customer to include below functionality advance protection feature which will protect from advance attack trends.	Minimum specification / changes required are as below: 1. System should Protect against SSL/TLS-encrypted Attacks with a FIPS-2 compliant Internal/External through SSL offloader. 2. The DDoS solution should support 20G SSL throughput & SSL DDoS Inspection with 30K SSL TPS @2k bit Key RSA and 20K SSL TPS with ECC. 3. System should have Behavioral DoS approach protecting against zero-day DoS and DDoS attacks without manual intervention. 4. Should have inbuilt advance and Hardware accelerated purpose-built TLS stack for Key exchange and bulk inspection; RC4, DES, 3DES, AES-CBC, AES-GCM, AES-GMAC, RSA, DSA, DH, ECDSA, ECDH, MD5, SHA, SHA2 ciphers. 5. All layer 3, 4, DoS/DDoS threats including flood/sweep with Src/Dst IP address awareness, UDP/DNS/TCP/SIP/SYN/ ACK/RST/FIN using sub-second detection, network behavior analysis, 120+ DDoS vectors, dynamic filtering, protocol analysis, source tracking, control policies, and more. 6. The DDoS solution hardware or operating system should be EAL or NDPP/NDcPP (Network Device Protection Profile)/FIPS certified under Common Criteria Program for security related functions.	Clarification sought / change requested is not clear
1428	2			Electricity	Please confirm that all the charges related to Electricity (at all locations) including its recurring bills and provisioning of the same shall be to Authority's account till Contract Completion period (Including Implementation and O&M period).	Refer to the Corrigendum-4 regarding reimbursement
1429	2			Authority's cost during Testing and Inspection	Please confirm that all the costs associated with travelling boarding and lodging, including out of the pocket expenses etc. of Authority's personnels shall be borne by Authority during any visit for Testing and Inspection.	As per RFP
1430	2		Volume –II : Scope of Work	ROW and RI charges	Please confirm that the cost of all ROW and RI charges shall be borne by Authority.	If ROW and RI related works are done by the MSI they will be paid additionally for the same
1431	2			Retrospective Search FRS shall have capability of Search backwards for previous detections and/or recognitions (events) of the detected person without enrolment from live CCTV & other forensic videos / offline videos	Please delete this specification as it is not supporting customer business use case. Justification: Once the Face is recognized transaction/record is created with suspect person attributes along with captured image which is always low quality, it is not recommended to run FRS on low quality images. This will yield lot of false alarms which in-turn makes operator not effective in monitoring.	As per RFP
1432	3	6	1. Definition of Terms	"Effective Date" means the date on which this Contract is signed by the parties hereto. If this Contract is executed in parts, then the date on which the last of such Contracts is executed shall be construed to be the Effective Date.	Please confirm that the Effective Date shall be considered as the date when the Contract is signed or the last date when all the sites (hindrance free with unrestricted access) have been provided to the Contractor, whichever is later.	Date of signing of Agreement
1433	3	6	1. Definition of Terms	"Applicable Law(s)": Any statute, law, ordinance, notification, rule, regulation, judgment, order, decree, bye-law, guideline, requirement or other governmental restriction or any similar form of decision applicable to the relevant party and as may be in effect on the date of the execution of this Agreement and during the subsistence thereof, applicable to the Project.	Please confirm that the impact of any change in law / introduction of new law etc. between bid submission date till Contract Signing and thereafter till project completion will be duly compensated with additional cost and increase in time.	It will not be compensated and no cost shall be payable.
1434	3	6	Master Service Level Agreement	No invoice for extra work on account of change order shall be submitted by SI unless the said extra work /change order has been authorized/approved by the Authority in writing in accordance with Change Control Note (Annexure I of this section of the RFP) .	Reimbursements etc. to be made to SI by Authority shall not be withheld and payment will be made within 15 days of such requests.	All effort shall be made in this regard, however no interest shall be paid in any condition.
1435	3	8	Conditions Precedent	Furnish notarized copies of any/all contract(s) duly executed by SI and its OEMs existing, at the time of signing of this contract in relation to the Authority's project. Failure to do so within stipulated time of signing of contract would attract penalty as defined in clause 42 in this Section.	Ordering completion within a span of 1 months from the date of Contract and arranging of any / all contracts between OEM and SI is not at all practical and un-achievable. In view of the same, we request you to delete this requirement.	This clause can not be deleted.
1436	3	9	Conditions Precedent	Furnishing by SI, an unconditional and irrevocable Performance Bank Guarantee of 10% of the contract value (PBG) (Annexure 7 (a) of the RFP Volume I) and acceptable to the Authority which would remain valid until such time as stipulated by the Authority.	The amount of PBG, as RFP Vol -1 Clause – 4.3 and Clause 27 of Vol-III states about the PBG of 3% of the contract value. Need to have clarity on the same.	Performance Security shall be 10% of the contract value.Refer <b>Corrigendum-4</b> in this regard.
1437	3	9	Conditions Precedent	Furnishing of such other documents as the Authority may specify/ demand.	Please the list of such documents may be provided so as to check the feasibility of this clause.	As per RFP

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1438	3	9	3. Conditions Precedent	Obtaining of all statutory and other approvals required for the performance of the Services under this Contract. This may include approvals/clearances, wherever applicable, that may be required for execution of this contract e.g., clearances from Government authorities for importing equipment, exemption of Tax/Duties/Levies, work permits/clearances for Bidder/Bidder's team, etc.	Getting all the statutory and other approvals including approvals / licences, wherever applicable within a span of 1 months from the date of Contract is not at all practical and un-achievable. In view of the same, we request you to delete this requirement.	As per RFP
1439	3	9	3. Conditions Precedent	In the event that any of the conditions set forth in Clause 3 hereinabove are not fulfilled within 1month from the date of this Contract, or such later date as may be mutually agreed upon by the parties, the Authority may terminate this Contract.	Due to non-feasibility and impracticability of fulfillment of Clause 3.2, 3.3 etc. it is requested to kindly delete this clause.	As per RFP
1440	3	10	10.27. Start of Installation	The plan and design documents thus developed shall be submitted by SI for approval by the Authority.	Kindly confirm that the approvals etc will be provided within 3 days from the SI's submission.	As per RFP
1441	3	11	8. Approvals and Required Consents	8.1. The Authority shall extend necessary support to SI to obtain, maintain and observe all relevant and customary regulatory and governmental licenses, clearances and applicable approvals (hereinafter the "Approvals") necessary for SI to provide the Services. The costs of such Approvals shall be borne by SI. Both parties shall give each other all co-operation and information reasonably.	We request you to consider the payment for approvals to be made as per the invoices raised by the MSI and same shall not be part of contract agreement. Hence request you to modify the clause as mentioned below:The Authority shall extend necessary support to SI to obtain, maintain and observe all relevant and customary regulatory and governmental licenses, clearances and applicable approvals (hereinafter the "Approvals") necessary for SI to provide the Services. The costs of such Approvals shall be borne by SI Authority. Both parties shall give each other all co-operation and information reasonably.	As per RFP
1442	3	11	8. Approvals and Required Consents	The Authority shall also provide necessary support to Bidder in obtaining the Approvals. In the event that any Approval is not obtained, SI and the Authority shall co-operate with each other in achieving a reasonable alternative arrangement.	Please confirm that due to such delay in receipt of approvals for the reasons not attributable to SI, the additional cost incurred by SI shall be duly compensated with extension of time without applicability of Liquidated damages / penalties etc.	As per RFP
1443	3	11	8. Approvals and Required Consents	The Authority shall extend necessary support to SI to obtain, maintain and observe all relevant and customary regulatory and governmental licenses, clearances and applicable approvals (hereinafter the "Approvals") necessary for SI to provide the Services. The costs of such Approvals shall be borne by SI. Both parties shall give each other all co-operation and information reasonably.	Please confirm that such approvals and licenses which are required to be taken in the name of Authority, the cost of the same will be borne by Authority.	As per RFP
1444	3	12	9. Constitution of Consortium	Where, during the term of this Contract, SI terminates any contract/arrangement or agreement relating to the performance of Services, SI shall be responsible and severally liable for any consequences resulting from such termination. SI shall in such case ensure the smooth continuation of Services by providing a suitable replacement to the satisfaction of the Authority at no additional charge and at the earliest opportunity.	Please confirm that OEMs and Consortium partners are allowed to be changed in case of their non-performance without any liability to SI.	As per RFP
1445	3	13	10. Bidder's Obligations	SI shall ensure that none of the Key Personnel (refer Section 3.6.1 of the RFP Volume I proposed) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, except for medical reason/death/Job-Termination, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	Already we have the Liquidated Damage and SLAs applicable in this Project, hence in the view of not to cascade the penalties, we request you to kindly delete this clause on penalty.	SI shall ensure that none of the Key Personnel (refer Section 3.6.1 of the RFP Volume I proposed) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, except for medical reason/death/Job-Termination, a penalty of INR 0.5 lakh per replacement shall be imposed on SI.
1446	3	13	10. Bidder's Obligations	10.5. SI shall ensure that none of the Key Personnel (refer Section 3.6.1 of the RFP Volume I proposed) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, except for medical reason/death/Job-Termination, a penalty of INR 2 lakhs per such replacement shall be imposed on SI.	Request you to kindly amend clause as follows:10.5. SI shall ensure that none of the Key Personnel (refer Section 3.6.1 of the RFP Volume I proposed) and manpower exit from the project during first 6 months of the beginning of the project. In such cases of exit, except for medical reason/death/Job-Termination, a penalty of INR 50000 2 lakhs per such replacement shall be imposed on SI.	Refer reply to query No 1445
1447	3	13	10. Bidder's Obligations	In case of delay in Go-Live for any reasons not attributable to MSI or delay from other stakeholder, Go-Live should be declared for components to start the Warranty/O&M support of those components which are commissioned.	Please confirm that O&M shall initiate once GO_Live is declared for the commissioned components and this Go_LIVE will be considered as the basis for O&M period completion without any further extension of O&M period on Final Go-Live	As per RFP



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1448	3	14	10. Bidder's Obligation	SI shall ensure that the OEMs provide the support and assistance to MSI in case of any problems / issues arising due to integration of components supplied by him with any other component(s)/ product(s) under the purview of the overall solution. If the same is not resolved for any reason whatsoever, MSI shall replace the required component(s) with an equivalent or better substitute that is acceptable to Authority without any additional cost to the Authority and without impacting the performance of the solution in any manner whatsoever.	Kindly confirm if the OEM Software support shall not restrict the number of support cases/incidents.	As per RFP
1449	3	15	10. Bidder's Obligations	SI shall provision the required critical spares/ components at the designated Datacenter Sites / office locations of the Authority for meeting the uptime commitment of the components supplied by him.	Please confirm that subsequent to the completion of O&M period, the unused spares shall remain the property of SI and it will be allowed to take back such spares.	As per RFP
1450	3	16	Master Service Level Agreement	As per TRAI guidelines, resale of bandwidth connectivity is not allowed.	To facilitate this clause ,please provide the Tripartite agreement format to be signed between PSCL, MSI and Network Service Provider.	Will be provided to the successful bidder.
1451	3	16	Master Service Level Agreement: 10.26. Access to Sites	During implementation, in case of delay in Site readiness, delay in site access or delay due to any reasons not attributable to MSI, MSI will be given time extension for implementation without any LD implication.	Please confirm that accordingly the cost of the extended period incurred by SI shall be to Authority's account	No extra cost for delay period would be paid.
1452	3	18	10.28. Reporting Progress	In case during execution of works, the progress falls behind schedule or does not meet the Tender requirements, SI shall deploy extra manpower/ resources to make up the progress or to meet the RFP requirements. Plan for deployment of extra man power/ resources shall be submitted to the Authority for its review and approval. All time and cost effect in this respect shall be borne, by SI within the contract value.	Please confirm that this clause shall be applicable only when the delay is attributable to SI.	It is applicable in delay in any case
1453	3	21	Master Service Level Agreement	Authority shall make payments to SI at the times and in the manner set out in the Payment schedule as specified Payment Milestones in RFP Volume II subject to the penalties as mentioned under Clause 42 of Section C- Service Levels of Volume 3. Authority shall make all efforts to make payments to SI within 60 days of receipt of invoice(s) and all necessary supporting documents.	It is requested to kindly make the payments within 30 days of invoice submission. IN case if the payments are delayed beyond the defined period, the interest @ 12% pa simple interest on the delayed payment shall also be paid to the SI.	No interest shall be paid for delay in payment, however, there is no reason why payments will not be made in time.
1454	3	21	12. Payments	12.1 Authority shall make payments to SI at the times and in the manner set out in the Payment schedule as specified Payment Milestones in RFP Volume II subject to the penalties as mentioned under Clause 42 of Section C- Service Levels of Volume 3. Authority shall make all efforts to make payments to SI within 60 days of receipt of invoice(s) and all necessary supporting documents.	We request you to amend the clause as mentioned below for improvement in working capital of SI as per Meity guidelines: Authority shall make payments to SI at the times and in the manner set out in the Payment schedule as specified Payment Milestones in RFP Volume II subject to the penalties as mentioned under Clause 42 of Section C- Service Levels of Volume 3. Authority shall make all efforts to make payments to SI within 60 30 days of receipt of invoice(s) and all necessary supporting documents. In the event of delay in payment of undisputed amount beyond 30 days, SI shall be entitled to a late payment interest of 10% per annum from the date of completion after submission of invoice. This interest is subject to a limit of 10% of the total contract value.	Refer <b>Corrigendum-4</b> , however, no interest shall be paid on delayed payment.
1455	3	22	Master Service Level Agreement	Authority shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by SI solely during the performance of Services and for the purposes of inter-alia use or sub-license of such Services under this Contract. SI undertakes to disclose all such Intellectual Property Rights arising in performance of the Services to the Authority, execute all such agreements/documents and obtain all permits and approvals that may be necessary in regard to the Intellectual Property Rights of the Authority.	SI shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all processes, products, specifications, reports and other documents which have been newly created and developed by SI solely during the performance of Services and for the purposes of inter-alia use or sub-license of such Services under this Contract. SI undertakes to disclose all such Intellectual Property Rights arising in performance of the Services to the Authority, execute all such agreements/documents and obtain all permits and approvals that may be necessary in regard to the Intellectual Property Rights of the Authority.	As per RFP
1456	3	23	14. Taxes	SI shall bear any new taxes imposed or there is any increase/decrease in any of the taxes for its services after submission of bids, the incremental/decremental amount may be considered for reimbursement / refunds at actuals under Subsequent Legislation.	Bidder's prices shall be based on the taxes, duties, levies, cess etc. applicable as on the date of bid submission. In case of any introduction of new taxes, duties, levies, cess etc. or any variation in the rates of taxes, duties, levies, cess etc. the impact of the same shall be to Authority's account. The same will be applicable in case of any Change in law or introduction of new law that may have impact on the Contract.	The same will be applicable even in case of any change in law of introduction of a new law.

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1457	3	23	14. Taxes	SI shall bear any new taxes imposed or there is any increase/decrease in any of the taxes for its services after submission of bids, the incremental/decremental amount may be considered for reimbursement / refunds at actuals under Subsequent Legislation.	Please clarify what is meant by "SI shall bear any new taxes imposed or there is any increase/decrease in any of the taxes for its services after submission of bids, the incremental/decremental amount may be considered for reimbursement / refunds at actuals under Subsequent Legislation."As per our understanding any increase in taxes & duties component, shall be payable by PSCL and the benefit on account of any decrease should be passed on to PSCL. Please confirm.	As per RFP
1458	3	23	14. Taxes	SI shall indemnify Authority against any and all liabilities or claims arising out of this Contract for such taxes including interest and penalty by any such Tax Authority may assess or levy against the Authority/Prime Bidder.	We understand that indemnification would only arise in case of any default attributable to SI. SI would not be liable for any indemnification for the default attributable to PSCL. Please confirm.	As per RFP
1459	3	23	15. Indemnity	15.1. SI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of:	We request you to describe the claims by the third parties.	As per RFP
1460	3	24	16. Warranty	SI warrants that at the time of delivery the goods supplied under this contract shall be of the highest grade and quality and consisted with the established and generally accepted standards for materials of this type. The goods shall be in full conformity with the specifications and shall operate properly and safely. All recent design improvements in goods, unless provided otherwise in the Contract, shall also be made available.	Please confirm that in case of any change in any codes and standards beyond bid submission date, which has the cost and time impact on the SI's goods or services, the same shall be borne by Authority along with applicable extension of time without any liquidated damages / penalties	No cost in this regard shall be born by the authority.
1461	3	25	17. Term and Extension of the Contract	17. Term and Extension of the Contract	Please clarify if SI is eligible for indirect cost/ idling charges during the suspension period/ and extension period	No
1462	3	25	17. Term and Extension of the Contract	Where the Authority is of the view that no further extension of the term be granted to SI, the Authority shall notify SI of its decision at least 3 (three) months prior to the expiry of the Term. Upon receipt of such notice, SI shall continue to perform all its obligations on the contract's rate and payment terms, until such reasonable time beyond the Term of the Contract (not exceeding six months) within which, the Authority shall either appoint an alternative agency/SI or create its own infrastructure to operate such Services as are provided under this Contract.	Please confirm that the cost of the extended period incurred by SI shall be to Authority's account	No
1463	3	26	18.4. The procedure for arbitration shall be as follows	a) In case of dispute or difference arising between the employer and the contractor relating to any matter arising out of concerned with this agreement it shall be settled in accordance with the arbitration and conciliation act 1996.The disputes or differences shall be referred to a sole Arbitrator. The sole Arbitrator shall be appointed by agreement between the parties; failing such agreement, by the Appointing Authority (any one of the organizations as listed in clause 18.6).	Kindly amend clause as:a) In case of dispute or difference arising between the employer and the contractor relating to any matter arising out of concerned with this agreement it shall be settled in accordance with the arbitration and conciliation act 1996 and or statutory amendment thereof.The disputes or differences shall be referred to a sole Arbitrator. The sole Arbitrator shall be appointed by agreement between the parties; failing such agreement, by the Appointing Authority (any one of the organizations as listed in clause 18.6). three arbitrators (i.e. one arbitrator to be appointed by each parties for themselves and two appointed arbitrators appointing the third arbitrator in accordance with arbitration and conciliations act 1996	As per RFP
1464	3	27	22. Force Majeure	22. Force Majeure	Pls include Vandalism and Terrorism as Force Majeure Conditions as these are beyond the control of the bidder/MSI.	As per RFP

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1465	3	27	Force Majeure	Failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen i.e. war, or hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restriction, strikes, lockouts or act of God (hereinafter referred to as events) , or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred at any location in scope. In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event. Any failure or lapse on the part of SI in performing any obligation as is necessary and proper, to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above-mentioned events or the failure to provide adequate disaster management/ recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.	Kindly increase the notice period / intimation period to 14 days instead of 5 days mentioned.	As per RFP
1466	3	28	22. Force Majeure	In case of a Force Majeure, SI shall intimate within 7 days of occurrence or continuation of event and all Parties shall endeavor to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.	Kindly increase the notice period / intimation period to 14 days instead of 7 days mentioned. Kindly confirm that termination rights are available with Contractor beyond 90 days event occurrence.	As per RFP
1467	3	28	22. Force Majeure	22.3. In case of a Force Majeure, SI shall intimate within 7 days of occurrence or continuation of event and all Parties shall endeavor to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.	Kindly amend clause as: 22.3. In case of a Force Majeure, SI shall intimate within 10 7 days of occurrence or continuation of event and all Parties shall endeavor to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the Contract and to minimize any adverse consequences of Force Majeure.	As per RFP
1468	3	28	22. Force Majeure	22.5. During the event of Force majeure, SI shall not be entitled for any compensation. Both the parties shall bear their respective cost during non-execution period.	We request you to kindly amend clause as: 22.5 The compensatory cost during force majeure event for the work which are ready and unable to complete to an extent shall be provided by PSCL to SI. Also SI will be eligible for cost incurred towards the sub-contractor during force majeure events.	As per RFP
1469	3	29	Transfer of Ownership	For any pre-existing work, SI & Patna Smart City Ltd. shall be jointly and severally responsible and its use in any other project by SI shall be decided on mutual consent.	For pre-existing work, SI has no liability of any kind since it was not in its scope, hence this clause may be removed and only PSCL may be made liable for any pre-existing work of any kind.	As per RFP
1470	3	29	Transfer of Ownership	SI shall be responsible to submit the electricity bill including connection charge, meter charge, recurring charges etc. to the electricity board directly. SI shall have to submit the challan of bill submission to PSCL. Patna Municipal Corporation /PSCL will reimburse the amount submitted to SI after verification in next billing cycle.	Please clarify the following: 1) Bidder need not to consider the recurring electricity charges in its financial bid as PSCL will reimburse it at actual after verification in next billing cycle. 2) One time electrical connection charges during implementation phase at ICCCL location and Field locations will be reimbursed by PSCL to MSI after verification. Bidder will not consider such cost in its Bid.	As per RFP
1471	3	29	Transfer of Ownership	SI must transfer all titles to the assets and goods procured for the purpose of the project to the Authority at the time of Acceptance of System. This includes all licenses, titles, source code, certificates, hardware, devices, equipment's etc. related to the system designed, developed, installed and maintained by SI. SI is expected to provide source code, transfer IPR and ownership right of only those solutions which would be customized by bidder for use of Patna Smart City Ltd. For any pre-existing work, SI & Patna Smart City Ltd. shall be jointly and severally responsible and its use in any other project by SI shall be decided on mutual consent.	SI must transfer all titles to the assets and goods procured for the purpose of the project to the Authority at the time of Acceptance of System. This includes all licenses, titles, source code, certificates, hardware, devices, equipment's etc. related to the system designed, developed, installed and maintained by SI. SI is expected to provide license for IPR right of only those solutions which would be customized by bidder for use of Patna Smart City Ltd. For any pre-existing work, SI & Patna Smart City Ltd. shall be jointly and severally responsible and its use in any other project by SI shall be decided on mutual consent.	Through <b>Corrigendum-4</b> the clause substituted as follows :SI must transfer all titles to the assets and goods procured for the purpose of the project to the authority at the time of Acceptance of system. This includes all licenses, titles, certificates, hardware, devices, equipment's etc. related to the system designed, developed, installed and maintained by SI. SI is expected to provide transfer IPR and ownership right of only those solutions which would be customized by bidder for use of Patna Smart City Ltd.

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1472	3	29	Transfer of Ownership	SI must transfer all titles to the assets and goods procured for the purpose of the project to the authority at the time of Acceptance of system. This includes all licenses, titles, source code, certificates, hardware, devices, equipments etc. related to the system designed, developed, installed and maintained by SI. SI is expected to provide source code, transfer IPR and ownership right of only those solutions which would be customized by bidder for use of Patna Smart City Ltd. For any existing work, SI & Patna Smart City Ltd shall be jointly and severally responsible and its use in any other project by SI shall be decided on mutual consent.	Source code shall lie with only with the OEM/Vendor. The reason being, these are not build/deveoped specifically for this city. The same has built for several cities over several projects, and these are IPR of the Company built with their own investment and revenue. Keeping this clause will remove a lot of credible companies from the participation of this project. Thereby suboptimal solution vendor would be the only choice pool to choose from. Even if the source code is provided, there are barely no advantage to the customer or end user primarily because to understand or interpret or support the source code, involvement of highly technical people who built the same is needed. Hence more of redundant. Request you to remove the clause.	Refer reply to query no1471.
1473	3	30	27. Performance Bank Guarantee	Within fifteen (15) working days of issue of LOI/LOA, the successful Bidder shall at his own expense submit unconditional and irrevocable Performance Bank Guarantee (PBG) to the PSCL in accordance with Ministry of Finance, Department of Expenditure, (Procurement Policy Division) OM No. F.9/4/2020/PPD Dated on 12.11.2020, wherein the Performance Security has been brought down to 3% of the value of the Contract price. The PBG shall be from a Nationalized Bank or a Scheduled Commercial Bank in the format prescribed in Section 9 - Annexure 5 (a), payable on demand, for the due performance and fulfilment of the contract by the bidder.	Kindly increase the time period of 15 days to 30 days owing to present situation of COVID.	Refer <b>Corrigendum-4</b>
1474	3	30	B. SPECIAL CONDITIONS OF CONTRACT (SCC)	In case the project is delayed beyond the project schedule as mentioned in RFP Vol 2, the performance bank guarantee shall be accordingly extended by the Bidder till completion of scope of work as mentioned in RFP Volume II.	Please confirm that the cost of same including other costs incurred by SI for the extended period shall be to Authority's account if the delay is not attributable to the Contractor.	There will be no additional cost for whatsoever reason of delay.
1475	3	31	27. Performance Bank Guarantee	PSCL 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, PSCL shall be entitled to make recoveries from the bidder's bills, performance bank guarantee, or from any other amount due to him under this contract, an equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction or misstatement.	Please increase the cure period from 40 days to 60 days.	As per RFP
1476	3	31	28 Liquidated Damages (Phase-1)		Reimbursement of penalty for intermediate milestones - New clause to be added The penalty levied during intermediate milestone shall be reimbursed to the bidder at the successful completion of the next milestone or final implementation milestone (Go-Live) within the agreed timeframe whichever is earlier.	As per RFP
1477	3	31	Liquidated Damages (Phase-1)	If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified at Para 9 in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week of contract price for a milestone.	If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified at Para 9 in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week of contract price Undelivered Items Value for a milestone.	As per RFP
1478	3	31	Liquidated Damages (Phase-1)	If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified at Para 9 in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week of contract price for a milestone.	Please confirm that milestone LDs are not applicable. Also the LDs shall per week or part thereof. Further LDs shall be levied only upon establishment of the delays and their reasons accountability mutually agreed by both parties. Please confirm that no payment will be withheld from any invoice till the time Extension of Time request is awaiting finalization at Customer's end.	As per RFP
1479	3	31	Liquidated Damages (Phase-1)	If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified at Para 9 in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week of contract price for a milestone.	Request you to amend the clause as:- "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 Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week of delayed material or delayed services cost for a milestone/quarter."	As per RFP
1480	3	32	30. Ownership and Retention of Documents	The Authority shall own the Documents, prepared by or for SI arising out of or in connection with the Contract.	SI shall own the Documents, prepared by or for SI arising out of or in connection with the Contract, SI shall grant license to Authority to use such documents.	As per RFP

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1481	3	36	Payment upon Termination	If the Contract is terminated at the Authority's convenience, the Authority shall issue a certificate for the value of the work done, less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law. No extra cost will be paid by the Authority for expenditure towards removal of equipment, repatriation of the SI's personnel employed solely on the Works and the SI costs of protecting and securing the works.	Please confirm that the work (supply and services) already inspected by Authority / work in progress / cancellation charges of sub-contracts etc. shall also be payable to the SI upon termination. We request you not to disallow the cost / expenditure towards removal of equipment, repatriation of the SI's personnel employed solely on the Works and the SI costs of protecting and securing the works since these are the genuine costs which are applicable and Contractor shall not be penalised on account of Authority's convenience of termination.	As per RFP
1482	3	37	37. Consequence of Termination	Where the termination of the Contract is prior to its stipulated term on account of a Default on the part of SI or due to the fact that the survival of SI as an independent corporate entity is threatened/has ceased, or due to invoke of Force Majeure or for any other reason, whatsoever, the Authority shall pay SI for all goods supplied and the Services rendered, under the project, up to the date of termination.	Please confirm that the work (supply and services) already inspected by Authority / work in progress / cancellation charges of sub-contracts etc. shall also be payable to the SI upon termination including the cost of expenditure towards removal of equipment, repatriation of the SI's personnel employed solely on the Works and the SI costs of protecting and securing the works.	As per RFP
1483	3	41	43. Penalties for Non/Under Performance (Phase-2)	The payment to the agency shall be on Quarterly basis however the penalty shall be calculated on monthly basis as per the SLAs stated in the RFP.	We request you to calculate the penalty on quarterly basis as well, since the payment to the MSI will be done in quarterly basis.	As per RFP
1484	3	42	43.6.1 Implementation phase related performance levels	Team Mobilization and Commencement of Work SI is expected to mobilize project team for commencement of work Commencement of work would mean reporting and availability of SI's resources (90% Key Personnel as per the RFP requirement) at the Authority's office for the project within defined period of 15 days and remaining 10% in next 15 days) Within 15 days of issuance of LOI/LOA or contract agreement, whichever is earliest Delay beyond 15 to 30 calendar days = 0.2% of the contract value Delay between 15 to 30 calendar days = 0.5% of the contract value Delay beyond 30 to 60 calendar days = 5% of the contract value Delay beyond 60 to 90 calendar days = 10% of the contract value Delay beyond 90 calendar days may lead to Termination of the Contract at the discretion of the Authority	We would like to bring to your kind attention that it is extremely difficult to mobilize 90% of Key personnel within 15 days of contract signing. So we request you to kindly amend clause as follows: SI is expected to mobilize project team for commencement of work Commencement of work would mean reporting and availability of SI's resources (Project manager and Solution Architect 90% Key Personnel as per the RFP requirement) at the Authority's office for the project within defined period of 15 days and remaining 10% in next 15 days) Within 30 15 days of issuance of LOI/LOA or contract agreement, whichever is earliest Delay beyond 30 15 calendar days = 0.05% 0.2% of the contract value Delay between 30 to 60 15 to 30 calendar days = 0.1% 0.5% of the contract value Delay beyond 30 to 60 calendar days = 5% of the contract value Delay beyond 60 to 90 calendar days = 0.2% 10% of the contract value Delay beyond 90 calendar days = 0.5% of contract value may lead to Termination of the Contract at the discretion of the Authority	As per RFP
1485	3	45	43.6.3. Network related performance levels	Network related performance levels	Network related performance levels and SLA will be imposed on the Network Service Provider and not on MSI. Please confirm.	As per RFP
1486	3	47	43.6.4. Service Level for ICT Solutions	10. Integrated Operations Platform	We assume that 'Integrated Operations Platform' refers ICCC Application here. Please confirm.	As per RFP
1487	3	52	Service Level for ICT Solutions	During post-implementation period, in case the pole /outdoor cabinets or any other field equipment is damaged by a vehicular accident (or due to any other reason outside the control of SI) and needs repair/replacement, then the corresponding equipment to be replaced by Bidder as per the SLAs defined in this section.	Instances such as theft, deliberate damage, vehicular accident or any other instance outside the control of MSI will not be borne by MSI. Please confirm.	As per RFP
1488	3	52	43.6.4. Service Level for ICT Solutions	Note: During post-implementation period, in case the pole /outdoor cabinets or any other field equipment is damaged by a vehicular accident (or due to any other reason outside the control of SI) and needs repair/replacement, then the corresponding equipment to be replaced by Bidder as per the SLAs defined in this section. In such cases, damages are to be borne by SI through proper comprehensive insurance for all the equipment (in the field or at ICCC/DC) during contract period.	Please confirm that in case of any event / damage / accident / theft / vandalism etc. not in the control of SI and where the insurance is taken, extension of time shall also be provided during implementation and no SLAs shall be applicable during O&M.	It needs to be the work/equipment shall be insured by the bidder at their own cost. No cost on this count shall be born by the authority.
1489	3	62	15. Indemnity	15. Indemnity 15.1. MSI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of: a) any negligence or wrongful act or omission by MSI or any third party associated with MSI in connection with or incidental to this Contract; or b) any breach of any terms agreed by MSI in the RFP and this Contract; c) any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof;	15. Indemnity 15.1. MSI shall indemnify the Authority from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of: a) any gross negligence or wrongful act or omission by MSI or any third party associated with MSI in connection with or incidental to this Contract; or b) any breach of any terms agreed by MSI in the RFP and this Contract; c) any infringement of patent, trademark/copyright or industrial design rights arising from the use of the supplied goods and related services or any part thereof;	As per RFP

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1490	3	62	28 Liquidated Damages (Phase-1)	28.1. If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified at Para 9 in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week of contract price for a milestone.	Kindly amend the clause as below:28.1. If SI fails to supply, install or maintain any or all of the goods as per the contract, within the time period(s) specified at Para 9 in the RFP Vol II, the Authority without prejudice to its other rights and remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 0.1 % per week of contract price for a milestone. 0.1% per week of undelivered portion of CAPEX value of a milestone.	As per RFP
1491	3	137	5.2.1.17. Functional & Technical Requirements for Backup Appliance	The proposed backup software should have the capability to enable WORM on the backup sets from the backup software console on proposed disk backup appliance	Justification: WORM is a hardware specific functionality. Only OEMs who manufacture hardware and software will enable this functionality for integration between their hardware and software. This point is in favour of specific OEMs.	As per RFP
1492	3	267	CCTV Surveillance System	SI is required to update GIS maps from time to time.	This requirement is mentioned under CCTV Surveillance System) hence, We assume that updation referred here is with respect to layers of CCTV Camera and associated components. Pl confirm if our assumption is correct.	Yes, your understanding is correct
1493	3		36. Suspension & Termination		Please confirm that SI also has the rights to suspend / terminate the Contract in the event of a) delayed payment from Authorityb) non-fulfillment of Authority's obligationc) breach of Contract by AuthorityAccordingly the payment to the Contractor shall be released as if it was suspended / trminated as per AUthority's convenience.	As per RFP
1494	3				If the Employer becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, being a corporation, if a resolution is passed o order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Employer takes or suffers any other analogous action inconsequence of debt.The Employer shall pay to the Contractor all payments specified and reasonablecompensation for all loss or damage sustained by the Contractor arising out of, in connection with or in consequence of such termination.	As per RFP
1495	3			Termination by SI	If(a) the Employer has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without justcause of the Contract Agreement, or commits a substantial breach of the Contract, the Contractor may give a notice to the Employer that requires payment of such sum, requires approval of such invoice or supporting documents, or specifies the breach and requires the Employer to remedy the same, as the case may be. If the Employer fails to pay such sum, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Contractor's notice, or (b) the Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Employer, including but not limited to the Employer's failure to provide possession of or access to the Site or other areas or failure to obtain any governmental permit necessary for the execution and/or completion of the Facilities which the Employer is required to obtain as per provision of the Contract or as per relevant applicable laws of the country, then the Contractor may give a notice to the Employer thereof, and if the Employer has failed to pay the outstanding sum, to approve the invoice or supporting documents, to give its reasons for withholding such approval, or to remedy the breach within twenty-eight (28) days of such notice, or if the Contractor is still unable to carry out any of its obligations under the Contract for any reason attributable to the Employer within twenty-eight (28) days of the said notice, the Contractor may by a further notice to the Employer , forthwith terminate the Contract The Contractor may terminate the Contract forthwith by giving a notice to the Employer to that effect,	As per RFP
1496	3			New Clause	We request you to add the clause as mentioned below:Assignment:- The rights and obligations under the Contract are personal to MSI and shall not be assigned by it, to any third party, without the express prior written authorization of the Authority, except that MSI may assign due and payable to it under the Contract to any Bank/Financial Institution. The property of Authority cannot be mortgage by MSI in any of the case.	As per RFP



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1497	3			New Clause	We request you to add the clause as mentioned below: Bonus: If the MSI achieves completion of the milestones or any section(s) prior to the intended Completion Date prescribed in Contract data (Extension of time at the discretion ), the Authority shall pay to the MSI a sum of 10% of the delivered portion of the respective milestone as bonus for early completion, for every calendar month which shall elapse between the date of completion of all items of works as stipulated in the contract, including variations and the time prescribed in the contract	As per RFP
1498	3			New Clause	We request you to add the clause as mentioned below: Change in Applicable Law: The Contract Price shall be adjusted to take account of any increase or decrease in Change in Applicable Law, introduction of new Laws and the repeal or modification of existing Laws) including Taxes or in the judicial or official governmental interpretation of such Laws, made after the Effective Date, which affect the MSI in the performance of obligations under the Contract. If the MSI suffers (or will suffer) delay and/or incurs (or will incur) additional Cost as a result of these changes in the Laws or in such interpretations, made after the Effective Date, the MSI shall give notice to the Authority and shall be entitled to: (a) an extension of time for any such delay, if completion is or will be delayed and (b) payment of any such Cost, which shall be included in the Contract Price.	As per RFP
1499	3			New Clause	We request you to add the clause as mentioned below: Events of Default by Authority: "Authority Event of Default" means any of the following but not limited to events set out below, unless such event has occurred because of a default by the SI, a Change in Law or any event of Force Majeure. a. if the Authority fails to pay any undisputed money due to the SI pursuant to this Contract within thirty (30) calendar days after receiving written notice from the SI that such payment is overdue; b. if the Authority is in material breach of its obligations under this Contract and has not remedied the same within thirty (30) days (or such longer period as the SI may have subsequently approved in writing) following the receipt by the Authority of the SI's notice specifying such breach; c. if the SI is unable to carry out any of its obligations under the Contract for any reason attributable to the Authority, including but not limited to the Authority's failure to provide possession of or access to the Site or other areas or failure to obtain any governmental permit necessary for the execution and/or completion of the System; d. if the Authority 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 Authority is a corporation, a resolution is passed or order is made for its winding up; e. if the Authority suspends the performance of the Services for more than sixty (60) days, for reasons not attributable to the SI. Without prejudice to other provisions of this Contract, upon the occurrence of a Authority Event of Default, the SI may deliver a notice to the Authority specifying the nature of the breach and giving a cure period of thirty (30) days to the Authority to cure the Authority Event of Default. If the Authority fails to cure the breach within the cure period, the SI may terminate the Contract forthwith.	As per RFP
1500	3			New Clause	We request you to add the clause as mentioned below: Extension of Completion: SI shall be entitled to extension of the Time for Completion if and to the extent that completion is or will be delayed by any of the following causes: (a) a Change Control Note or variation or other substantial change in the quantity of an item of work included in the Contract, (b) a cause of delay giving an entitlement to extension of time under a Sub-Clause of these Conditions, (c) exceptionally adverse climatic conditions, or Force Majeure (d) Unforeseeable shortages in the availability of personnel or Goods caused by epidemic or governmental actions, or (e) any delay, impediment or prevention caused by or attributable to the Purchaser, the Purchaser's Personnel, or the Purchaser's other contractors on the Site. (f) Suspension of the contract	As per RFP

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1501	3			New Clause	We request you to add the clause as mentioned below:For any new equipment(s)/system(s) which are not included in the RFP that might come up during the contract period Authority will reserve the option to procure these equipment(s) from the SI on cost of Supply, Implementation and AMC plus handling charges of 12.5% to the SI. The SI would need to operate and maintain all such new equipment installed in the Project locations and yearly AMC charges will be paid by Authority to SI	As per RFP
1502	3			New Clause	We request you to add the clause as mentioned below:In case the Parties decide to use any pre-existing work not related to the Project for any Project use and which is not owned by either Party, MSI and the Authority shall mutually decide on use of such work on terms to be decided on mutual consent and time for execution and increase in price shall be paid respectively. Notwithstanding the foregoing, any Intellectual Property or Intellectual Property Rights that were developed, owned or licensed by a Party prior to execution of the Contract shall remain with such Party unless the Parties agree otherwise by express written consent.	As per RFP
1503	3			New Clause	We request you to add the clause as mentioned below:Increase in Cost on account of Labour codes:(a)The Central Government has enacted the following labour codes, merging 29 existing labour laws in India:i.The Code on Wages, 2019;ii.Occupational Safety, Health and Working Conditions Code, 2020;iii.Industrial Relations Code, 2020; andiv.Code on Social Security, 2020The aforementioned codes are hereinafter referred to as "Labour Codes"(b)The Labour Codes have been ratified by the Parliament of India. However, the Labour Codes have not come into effect yet; and each of them contains a specific provision that they will come into force on such date(s) as the Central Government may, by notification in the Official Gazette, appoint.(c)The parties hereby agree that in the event the Labour Codes, or any one or more of them, come into force after the last date of bid submission, but prior to the completion of the Contract Works; and the coming into effect of Labour Codes, or any one or more of them, causes any increase in cost for the Contractor, such increase in cost will be considered as an addition to the Contract Price and will be liable to be reimbursed by the Owner to the Contractor.	As per RFP
1504	3			New Clause	We request you to add the clause as mentioned below:Suspension by the MSI:If the Authority fails to certify in accordance with this Agreement upon submission of invoices or fails to comply with Payment obligation or provide timely access to site or perform its obligations in a timely manner ,the MSI may, after giving not less than 21 days' notice to the Authority, suspend work (or reduce the rate of work) unless and until the default of the Authority has been remedied.	As per RFP
1505	Additional clause			2. The cloud service provider should have the following certification:	<a href="https://www.meity.gov.in/writereaddata/files/tender_upload/Application_CSP.pdf">https://www.meity.gov.in/writereaddata/files/tender_upload/Application_CSP.pdf</a>	As per RFP
1506	Additional clause			General	1) Kindly confirm that all the existing solutions needs to integrated only on API/SDK level.2) Also confirm that no compute, storage and bandwidth needs to be considered for existing solutions.	As per RFP
1507	Additional clause				A lot of software functionalities are over lapping and thus leading to duplicity in function and making the overall system complex. eg. Features of ICCV/VMS/ ITMS software.Kindly add:To avoid duplicity in features please allow combination of ICCV/VMS/Other software to meet overall functional and technical requirements of respective software and RFP.	As per RFP
1508	Additional clause			General - User Base & Concurrency	a. Please provide the approx. number of track wise user base who would be using the system. Please also provide the concurrency of active users expected from individual tracks.	As per RFP
1509	Additional clause			-	Additional clause required for Bidder's right to claim extension of time & extra cost as explained below:- Bidder shall be entitled to claim extension of time & extra cost for any default or delay attributable to Purchaser.	As per RFP
1510	Additional clause			Add to UC & C scope	Benefit: If the Platform has prebuilt ANALYTICS ENGINE its gets you off the ground instantly, delivering actionable insights derived the data. Faster system response by faster visualizations. in-built steam processing capabilities, benefits the customer in terms of system efficiency & improves the fast processing of data. Since the analytics engine will be utilizing large size of data to process (Big data)	As per RFP

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1511	Additional clause			Compliance to GDPR - General Data Protection Regulation	CSP Should have ISO 27701 certification to comply with General Data Protection Regulation (GDPR) guidelines.	As per RFP
1512	Additional clause			General	For complete solution designing please provide list of locations with number of Arms and nos. of lanes per arm for RLVD	As per RFP
1513	Additional clause			General	Is 3D modelling part of the Scope of Work?	As per RFP
1514	Additional clause			Recommended Additional Clause	It is suggested to have Fixed Box Cameras for ANPR / SVD System as the same is proven and already installed in almost all the smart cities project in place of Fixed Box Camera. It will not have any commercial implication neither the same is specific to on OEM instead the same will give better accuracy for ANPR Alerts.	As per RFP
1515	Additional clause			General	Kindly share the location details of all the proposed solutions	As per RFP
1516	Additional clause			You have mentioned Zero day threat protection at number of places in RFP but there are no specifications defined in RFP for Anti-APT	Kindly add minimum functional requirement of Anti-APT in RFP so that able to provide you best security solution for Zero day threat protection	Please refer Annexure to <b>Corrigendum-4</b> regarding Anti-APT
1517	Additional clause				Please provide location & geo coordinate list of new ATCS junctions to be installed under this Tender scope	The details shall be provided to the qualified bidder. While bidding the bidders are supposed to use their own judgement.
1518	Additional clause			General Requirement - API Management Platform Technical Specifications	Request you to kindly add the below specifications to minimise risk and future proof the solution API Management Platform Technical Specifications –1 The bidder shall propose a proper enterprise API Management Solution and it should not be an integrated/bundled software with any business application or CCC/ICCC Platform, it should be deployed as an independent platform.2 The OEM Software support of API Management shall not restrict the number of support cases/incidents.3 The API Management Solution should not restrict number of Gateways integration with the Manager.4 API management solution and API gateway should provide open standards based API Management, by providing full API lifecycle management with governance and security and monitoring mechanism for the available APIs.5 Bidder should implement an API Management platform that provides Modelling, designing policies that govern API externalization (consumption) and capabilities to monitor its usage, report with analytics, secure and governs the access to APIs and provides portal interface to facilitate partner/developer onboarding.6 OEM of API Management Solution shall have presence in India and shall have its own India Support center as well.7 The platform should have API Management capabilities like API Security, API Monetization, data access, rate limits, and call volume settings for the Smart City. 8 Provide documentation, example code, and other information to help API users build successfully9 API traffic control in the data flow: Protect the backend API servers with strict traffic control on incoming and outgoing traffic.10 APIs Access Control & API Security11 Dashboard: The Dashboard, part of the Admin Portal, should give quick, centrally located visibility into any traffic.12 API manager shall provide rate limiting, analytics capabilities along with access control mechanisms. It shall also provide developer portal for documentation of available APIs, use cases, tutorials and testing of APIs.13 API gateways shall work in disconnected mode (during unavailability of manager portal). API gateways shall provide instances auto scaling - scale up, scale down, auto start, auto stop basis on traffic.	As per RFP

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1519	Additional clause			General Requirement - Enterprise Service Bus Technical Specificaitons	Request you to kindly add the below specifications to minimise risk and future proof the solutionEnterprise Service Bus Technical Specifications –1 There should be no point to point integration in the architecture. There should be a separate enterprise service bus layer for integration2 The enterprise service bus layer should be loosely coupled with any other component in the architecture.3 Enterprise service bus layer should be independently scalable, modular and replaceable. It should follow scale-out architecture to handle spikes in traffic.4 Enterprise service bus could be deployed on choice of environments - Bare Metal, VMs, containers, public and private cloud5 ESB layer should have out of the box support OSGi bundles6 Integration software should include out-of-the box support for Enterprise Integration Patterns and Standard Connectors without additional cost7 Integration platform should include Message Queue capability8 Should support leading industry standard protocol for interoperable reliable messaging with AMQP 1.0 and MQTT9 Integration platform should include native management console to manage ESB & Message Queue OEM Should have support centre in India10 OEM Should have support centre in India.11 The OEM Software support of ESB Solution shall not restrict the number of support cases/incidents for both production and development.12 The bidder shall also propose self-paced OEM online learning module for proposed ESB for at least three users for a period of one year	As per RFP
1520	Additional clause			General Requirements - Operating System Technical Specificaitons	Request you to kindly add the below specifications to minimise risk and future proof the solutionOperating System Technical Specifications –• Offered solution should be based on Open Standard and Open Architecture. The operating system should be offered with 24x7 support directly from the operating system OEM and it should have minimum one support centre in India for localised support. • Offered solution should have one-click security compliance tool that is designed to secure offered Operating System for Critical workloads. • It should be offered with predictive analytics tool to proactively check against common vulnerabilities and exposures (CVEs), identify system misconfigurations, and provide guidance. • It should be offered with predictive analytics tool to proactively check against common vulnerabilities and exposures (CVEs), identify system misconfigurations, and provide guidance. • The Linux operating system running in existing environment should be checked for security compliance to the security benchmark for Linux from the Centre for Internet Security (CIS) and the offered tool should have this capability. • Proposed Linux Operating system should have minimum 10 years of life cycle availability on major kernel versions. • Offered solution should be able to do Single click evaluation and remediation. Offered solution should be able to do Automatic security compliance - assessment and remediation. • Offered solution should be able to do Single click evaluation and remediation. Offered solution should be able to do Automatic security compliance - assessment and remediation. • All the required licenses/subscription should be provide for the solution. All the software update and patches should be provided during entire support period at no extra cost. • Offered solution should be able to provide drift analysis on configured system from Operating system points. • Offered solution should be offered with respective Operating System OEM with complete support as defined for the operating system and same SLA. • Offered solution should be able to perform provisioning and post-provisioning steps for configuration of various systems related to the operating system. • Offered solution should be able to generate report on hosts that need OS updates, fixes, or enhancements. • Live kernel patching for critical CVEs to minimize system reboots and reduce application warm-up cycle time should be offered with the solution	As per RFP

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1521	Additional clause			General Requirements Role Based Access Control	Requesting you to kindly add the below technical specifications to minimize risk and future proof the solution-“SSO Technical SpecificationsSingle Sign-On (SSO) should enable securing web applications by providing Web single sign-on (SSO) capabilities based on common standards such as SAML 2.0, OpenID Connect and OAuth 2.0. SSO server should be capable to work as a SAML or OpenID Connect-based Identity Provider, mediating with enterprise user directory or 3rd-party SSO provider for identity information and applications via standards-based tokens.SSO Features:Authentication server - Act as a standalone SAML or OpenID Connect-based Identity ProviderUser Federation - Certified with Red Hat Directory server/s, LDAP and Microsoft Active Directory as sources for user informationIdentity Brokering - Integrates with 3rd-party Identity Providers including leading social networks such as Google, Facebook etc., as identity sourceREST APIs & Administration GUIs - Specify user federation, role mapping, and client applications with easy-to-use Administration GUI and REST APIsIntegration and management capabilities-Easy to use integration libraries and agents / adapters Securing different applications and services within little codeCentralized Session Management Users should be able to review and invalidate active sessions Admins able to revoke access to compromised clients/tokens Single Log-Out from multiple appsIt provides following features Out of the box Password policies & Two Factor Authentication Session Management & Logging Different Authentication flows & methods Both RBAC and ABAC with flexible policiesManagement UI fully backed by REST endpoints and CLI to manage all server configuration aspectsSingle place to define token configuration Lifespan and etc. Define included attributes, mappings, and rolesSet of customizable and themable GUIs for User, Role and Authorization Policies management Authentication and Registration for end users User self service”	As per RFP
1522	Additional clause				Since BSNL is central PSU under Government of India, Hence we request the tender authority to kindly waive off the tender authority waive off the EMD and Tender Fee for government PSUs. It may be noted that in similar Smart City projects similar waivers are commonly allowed.	As per RFP
1523	Additional clause			Enterprise Platform	The Enterprise Web GIS application needs to be developed. The platform should be COTS platform or an open source. The platform would be provided by Patna Smart City or the vendor needs to procure.	Refer reply to query at S.No. 289
1524	Additional clause				Request you to add this: The SIEM & Log Monitoring solution should be from a different OEM than the Prevention Security solutions like F/W, IPS, HIPS, AV, DLP,.	Refer <b>Corrigendum-4</b>
1525	Additional clause				The following clause will allow filter best of Cloud Service Providers :Cloud Service Provider must have average annual revenue of more than 300 Crores for last 3 years from Cloud services only	Not accepted to be added as additional clause.
1526	Additional clause				We bring your attention towards the recent Office Memorandum F. No. 19-1/2019 – SU – I by Department of Telecommunications, Ministry of Communications. The aforesaid OM has mandated the use of BSNL network services for Internet / Broadband and Landline / Leased Line by all Ministries / Departments of Government of India / CPSEs / Central Autonomous Bodies etc. under Central Government .In lieu of the aforesaid Office Memorandum issued by DoT, we wanted to request you to make necessary changes mandating the use of BSNL services by all participating bidders	Not accepted.
1527	Additional clause			Recommended Additonal Clause	We Hereby Request you to please Include the Application Security Audit Certificate from CERT-IN Empanelled Auditors for the Speed Violation Detection System (SVDS) as per the OWASP Guidelines to Mitigate Cyber Security Attacks	Not accepted.
1528	Additional clause			Existing GIS data	What is the format of the existing GIS data available? As well as what is the format of the data that needs to be converted to GIS layers?	No GIS related data shall be provided and the agency is suppose to prepare the basemap as the same is included in the scope of work.